



AMITY UNIVERSITY

RAJASTHAN

1.2.1 List of new courses introduced across all programmes offered during the last five years , syllabus & Links of Board of Studies (BOS) & Academic Council (AC)

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1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
MBA112	Managerial Communication-I	2021	The overall aim of this course is to make students acquainted with effective application of professional vocabulary which will enhance their verbal ability along with practical team engagement and management skills.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The overall aim of this course is to make students acquainted with effective application of professional vocabulary which will enhance their verbal ability along with practical team engagement and management skills.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA225	Managerial Communication-II	2021	The overall aim of this course is to enable you to develop and gain further understanding of using communication as a tool while combining it with your personal acquired technical & other professional skills and learning through self-investigation with a direct emphasis of their application to real-world situations in the field of formal setup of communication environment.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The overall aim of this course is to enable you to develop and gain further understanding of using communication as a tool while combining it with your personal acquired technical & other professional skills and learning through self-investigation with a direct emphasis of their application to real-world situations in the field of formal setup of communication environment.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA385	AI Technologies	2021	will have understanding of the basic areas of artificial intelligence search, knowledge representation, learning and their applications in design and implementation of intelligent agents for a variety of tasks in analysis, design, and problem-solving	will have understanding of the basic areas of artificial intelligence search, knowledge representation, learning and their applications in design and implementation of intelligent agents for a variety of tasks in analysis, design, and problem-solving	will have understanding of the basic areas of artificial intelligence search, knowledge representation, learning and their applications in design and implementation of intelligent agents for a variety of tasks in analysis, design, and problem-solving	https://www.amity.edu/jaipur/1_2_2.aspx
MBA386	Big Data Analytics	2021	Understand the fundamentals of Big Data and its Applications in various Domains.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	Understand the fundamentals of Big Data and its Applications in various Domains.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA387	Business process Automation	2021	identify the processes that are fit for automation and develop a plan for it.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	identify the processes that are fit for automation and develop a plan for it.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA388	Data Science Products	2021	The course will help the students to understand the data science, its properties and various related behaviour which they can use to develop their data science applications for solving real world problems.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The course will help the students to understand the data science, its properties and various related behaviour which they can use to develop their data science applications for solving real world problems.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA452	Data Science with R	2021	The course will help the students to understand the data science and various related techniques which they can use to develop their data science applications for solving real world problems.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The course will help the students to understand the data science and various related techniques which they can use to develop their data science applications for solving real world problems.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA453	Data Visualization	2021	An understanding of the key techniques and theory used in visualization, including data models, graphical perception and techniques for visual encoding and interaction. Exposure to a number of common data domains and corresponding analysis tasks, including working on Python, R and Tableau.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	An understanding of the key techniques and theory used in visualization, including data models, graphical perception and techniques for visual encoding and interaction. Exposure to a number of common data domains and corresponding analysis tasks, including working on Python, R and Tableau.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA454	Blockchain technologies and Application	2021	To give students the understanding of emerging abstract models for Blockchain Technology and to familiarise with the functional/operational aspects of cryptocurrency eco-system.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	To give students the understanding of emerging abstract models for Blockchain Technology and to familiarise with the functional/operational aspects of cryptocurrency eco-system.	https://www.amity.edu/jaipur/1_2_2.aspx
AND001	ANANDAM-I	2020				https://www.amity.edu/jaipur/1_2_2.aspx

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			Employability	Entrepreneurship	Skill development	
AND002	ANANDAM-II	2020				https://www.amity.edu/jaipur/1_2_2.aspx
AND003	ANANDAM-III	2020				https://www.amity.edu/jaipur/1_2_2.aspx
AND004	ANANDAM-IV	2020				https://www.amity.edu/jaipur/1_2_2.aspx
AND005	ANANDAM-V	2020				https://www.amity.edu/jaipur/1_2_2.aspx
AND006	ANANDAM-VI	2020				https://www.amity.edu/jaipur/1_2_2.aspx
AND007	ANANDAM-VII	2020				https://www.amity.edu/jaipur/1_2_2.aspx
AND008	ANANDAM-VIII	2020				https://www.amity.edu/jaipur/1_2_2.aspx
AND009	ANANDAM-IX	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MBA331	E Commerce and Online Business Models	2019	This course will provide the students with an analytical and technical framework to understand the emerging world of e-commerce. e-commerce poses both a challenge and an opportunity for managers. As a matter of competitive necessity, savvy managers must gain an understanding of the rapidly changing technology and business models. They need to develop a basic understanding of how electronic business differs from "real" business settings.	This course will provide the students with an analytical and technical framework to understand the emerging world of e-commerce. e-commerce poses both a challenge and an opportunity for managers. As a matter of competitive necessity, savvy managers must gain an understanding of the rapidly changing technology and business models. They need to develop a basic understanding of how electronic business differs from "real" business settings.	This course will provide the students with an analytical and technical framework to understand the emerging world of e-commerce. e-commerce poses both a challenge and an opportunity for managers. As a matter of competitive necessity, savvy managers must gain an understanding of the rapidly changing technology and business models. They need to develop a basic understanding of how electronic business differs from "real" business settings.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA332	Digital Marketing Strategies	2019	This course has been designed to help students learn Digital Marketing concepts, apply them to solve business problems and to function as effective managers. It deals with all important back end management of Digital Marketing and Promotional Strategies with a view to handle the situations professionally and improve the outcome with result orientation in the Digital Space.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This course has been designed to help students learn Digital Marketing concepts, apply them to solve business problems and to function as effective managers. It deals with all important back end management of Digital Marketing and Promotional Strategies with a view to handle the situations professionally and improve the outcome with result orientation in the Digital Space.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA333	Digital Branding and Engagement	2019	This course will teach about this shift and how it has altered the way brands communicate with their audiences. Course will help the learners to know about the challenges of managing a digital brand and how rich and compelling content, combined with digital distribution, are integral to brand engagement.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This course will teach about this shift and how it has altered the way brands communicate with their audiences. Course will help the learners to know about the challenges of managing a digital brand and how rich and compelling content, combined with digital distribution, are integral to brand engagement.	https://www.amity.edu/jaipur/1_2_2.aspx

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			Employability	Entrepreneurship	Skill development	
MBA334	Digital Marketing Analytics	2019	The aim of this course is to develop understanding Digital analytics as the analysis of qualitative and quantitative data from business and the competition to drive a continual improvement of the online experience that customers and potential customers have which translates to desired outcomes.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The aim of this course is to develop understanding Digital analytics as the analysis of qualitative and quantitative data from business and the competition to drive a continual improvement of the online experience that customers and potential customers have which translates to desired outcomes.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA441	Social Media Marketing	2019	Describe and identify different concepts of Social Media Marketing. Recognize and identify various strategies to take advantage in market, Analyze and Implement the various concepts. Use critical thinking to analyse management challenges through learning and study, individually or in a group.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	Describe and identify different concepts of Social Media Marketing. Recognize and identify various strategies to take advantage in market, Analyze and Implement the various concepts. Use critical thinking to analyse management challenges through learning and study, individually or in a group.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA442	Content Marketing	2019	Describe and identify different concepts of Content Marketing. Recognize and identify various strategies to take advantage in market. Analyze and Implement the various concepts. Use critical thinking to analyse management challenges through learning and study, individually or in a group.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	Describe and identify different concepts of Content Marketing. Recognize and identify various strategies to take advantage in market. Analyze and Implement the various concepts. Use critical thinking to analyse management challenges through learning and study, individually or in a group.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA443	Consumer Behaviour in Digital World	2019	Understanding Consumer Behaviour and the Emergence of Digital Native's Behavior. Understanding Individual Consumer in Digital world	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	Understanding Consumer Behaviour and the Emergence of Digital Native's Behavior. Understanding Individual Consumer in Digital world	https://www.amity.edu/jaipur/1_2_2.aspx
MBA376	Digital Marketing	2018	The course aims to provide working knowledge in digital marketing domain and help students to develop an understanding of the framework within online marketing businesses and its operations.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The course aims to provide working knowledge in digital marketing domain and help students to develop an understanding of the framework within online marketing businesses and its operations.	https://www.amity.edu/jaipur/1_2_2.aspx
MBA211	Business Modeling and Analytics	2017	The objective of the course is to develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.	Students will be able to handle the records and data in the form of spreadsheets .	The objective of the course is to develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.	https://www.amity.edu/jaipur/1_2_2.aspx
BBA382	Corporate Social Responsibilities	2021	the subject induces necessary skills in students which make them competitive and employable	The course provides examples of corporate social responsibility and Discuss controversies surrounding CSR. These help the student to conduct business in a socially responsible fashion	the subject induces necessary skills in students which make them competitive and employable	https://www.amity.edu/jaipur/1_2_2.aspx
BBA383	Fintech and New Initiatives	2021				https://www.amity.edu/jaipur/1_2_2.aspx
BBA494	Rural Marketing	2021	The subjects helps to Analyse marketing environment, consumer behaviour, distribution channels, marketing strategies, etc. in the context of rural markets in India	The subject provides an orientation to Categorize issues in rural markets and plan rural start ups.	the subject induces necessary skills in students which make them competitive and employable	https://www.amity.edu/jaipur/1_2_2.aspx
BBA 513	Basics and Strategies of Digital Marketing	2020				https://www.amity.edu/jaipur/1_2_2.aspx

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BBA102	Business Environment	2020	It will apprehend the concept of Business Environment and Identify various types of Business Environment. This will help to make students familiar with some of the practical factors which impact on international business activities in differing political, legal and cultural environments	This subject will help to make students familiar with some of the practical factors which impact on international business activities in differing political, legal and cultural environments. It will enhance their entrepreneurship skills.	the subject induces necessary skills in students which make them competitive and employable	https://www.amity.edu/jaipur/1_2_2.aspx
BBA108	Readings in management	2020	The subject provide relevant reading material to the students which helps them in increasing their employability question	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	Students will be able to do the analysis of Industries and companies in a professional, logical, clear and coherent way.	https://www.amity.edu/jaipur/1_2_2.aspx
BBA204	Analysis & Design of Business Systems	2020	It will help students to understand the various levels of system development life cycle and how information is recorded and kept at different levels in the organization.	Students will be able to Interpret how to use Database Management System and Normalization to solve data related business problems.This subject will also describe the role of Maintenance and Auditing while developing a new system or working in an existing system.	Students will be able to understand the importance of security and what measures should be taken to ensure security of the system.	https://www.amity.edu/jaipur/1_2_2.aspx
BBA205	Business Statistics	2020	The use of statistical analysis for business takes on many forms in a wide variety of contexts. Businesses use statistics to project sales numbers, evaluate production methods, develop short- and long-term strategies, build and adjust organizational structure, and much more. Thus leading to employability enhancement.	Every start up requires proper analysis of existing and forecasted data. Sattistical tools will help a new venture to plan strategies and execute well	This course aims to assist students in developing critical core competencies and skills required to carry out a descriptive and inferential data analysis using statistical softwares. The course aims to provide a strong understanding of the concepts related to probability and probability distributions required for statistical hypothesis testing procedures. The course will also help students to understand the basics of Times Series Analysis.	https://www.amity.edu/jaipur/1_2_2.aspx
BBA265	Data Analytics	2020	This course is aimed to study the computer programs for business and financial modeling and structuring and solving financial problems using spreadsheets and structured programming techniques. The objective of the course is to develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.	Students will be able to handle the records and data in the form of spreadsheets .	The objective of the course is to develop skills in MS Excel . Students will be able to make spreadsheets. Use charts , make pivot tables.	https://www.amity.edu/jaipur/1_2_2.aspx
BBA380	Public Finance	2020	The course helps students to understand and analyse the role of Governments in the modern mixed economies. Helps to Evaluate characteristics of a good tax system, revenue and expenditures of the Government, fiscal deficit, fiscal policy and its impact on the economy. Appraise the impact of changes in fiscal policy on the economy, how initiatives and regulations in fiscal planning helps the economy.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	the subject induces necessary skills in students which make them competitive and employable	https://www.amity.edu/jaipur/1_2_2.aspx
BBA 493	Business Modelling in Excel	2018				https://www.amity.edu/jaipur/1_2_2.aspx

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BBA371	Public Relations & Corporate Image	2018	The course help the student to develop entrepreneurial orientation towards making strategic plans and planning methods in Advertising and Public Relation It helps in brand building and execute ethically sound and socially responsible advertising strategies and public relations campaign	The course help the student to develop entrepreneurial orientation towards making strategic plans and planning methods in Advertising and Public Relation It helps in brand building and execute ethically sound and socially responsible advertising strategies and public relations campaign	The course help the student to develop entrepreneurial orientation towards making strategic plans and planning methods in Advertising and Public Relation It helps in brand building and execute ethically sound and socially responsible advertising strategies and public relations campaign	https://www.amity.edu/jaipur/1_2_2.aspx
BBA595	Business Data Processing	2018	The course demonstrate methods to data fetch from online data sharing WEB apis Compare the standard data formats for data sharing across software platforms It helps to reflect on different data storage possibilities available for business data	The course teaches Analytical skills for implementation of business data processing using Business Intelligence and Reporting tools	The course demonstrate skills about data processing, data storage and data retrieval using relational database structure and structured query language, Demonstrate understanding for NoSQL databases, Describe an understanding of complete end to end business data analysis process	https://www.amity.edu/jaipur/1_2_2.aspx
BBA596	Entrepreneurship Development	2018	student will be able to discern distinct entrepreneurial traits. They will come to know the parameters to assess opportunities and constraints for new business ideas. It will help to students in selecting and screening a business idea. It will explore entrepreneurial leadership and management style.	the subject induces necessary skills in students which make them competitive and employable	The course aims at giving the learner and overview of how a start-up can be developed and all the verticals of an organisation that comprises of a start up in detail, which facilitates the student to be employable in start ups and new ventures.	https://www.amity.edu/jaipur/1_2_2.aspx
BBA280	Management Accounting	2018	Students will be able to understand the role of management accounting in the planning, control and decision making activities of organisations	This course will help them to evaluate the need for management accounting information, systems and practices to change in response to changes in the operating and business environments.	the subject induces necessary skills in students which make them competitive and employable	https://www.amity.edu/jaipur/1_2_2.aspx
BBA592	Analytical Skill Building	2017	This subject about analytical skill building is helpful to the learner in developing his analytical and cognitive skills which is required for his employability	The course facilitates to recognise the importance of critical thinking in analysis and Using the analytical process to arrive at a decision	The course facilitates to recognise the importance of critical thinking in analysis and Using the analytical process to arrive at a decision	https://www.amity.edu/jaipur/1_2_2.aspx
BBA616	Social Media Marketing	2020	The subject helps the student to understand fundamental concepts and principles of Social Media Marketing. Develop Social Media Marketing mix. Decide appropriate Social Media Marketing Channels/Platforms. Develop and Execute Social Media Marketing Campaigns. Evaluate Effectiveness of Social Media Marketing by applying relevant Social Media Analytics tools.	The knowledge of this subject will help the student to Develop and Execute Social Media Marketing Campaigns which is needed to promote new ventures and start ups	The subject enhances the skills of students related to social media marketing and developing a marketing media mix which is instrumental in promoting any businesses this skills gives an edge to our management graduates	https://www.amity.edu/jaipur/1_2_2.aspx
BCH180	Financial Accounting – I	2020	This course aims at equipping the students with the basic principles of financial accounting for different types of organisations. The students will be exposed to the underlying concepts relating to financial accounting. The course will introduce to the double-entry accounting with the aim of preparing & presenting various financial statements.	This course aims at equipping the students with the basic principles of financial accounting for different types of organisations. The students will be exposed to the underlying concepts relating to financial accounting. The course will introduce to the double-entry accounting with the aim of preparing & presenting various financial statements.	This course aims at equipping the students with the basic principles of financial accounting for different types of organisations. The students will be exposed to the underlying concepts relating to financial accounting. The course will introduce to the double-entry accounting with the aim of preparing & presenting various financial statements.	https://www.amity.edu/jaipur/1_2_2.aspx

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BCH181	Business Organization & Management	2020	This course underpins the way different types of organisations are managed. The students will be able to understand the business and its environment. This course also introduces the students to the framework of ethics and governance and the influence they create on a business organisation. The aim of the course is to orient the students in theories and practices of Management to apply the acquired knowledge in actual business practices. This is a gateway to the real world of management and decision-making.	This course underpins the way different types of organisations are managed. The students will be able to understand the business and its environment. This course also introduces the students to the framework of ethics and governance and the influence they create on a business organisation. The aim of the course is to orient the students in theories and practices of Management to apply the acquired knowledge in actual business practices. This is a gateway to the real world of management and decision-making.		https://www.amity.edu/jaipur/1_2_2.aspx
BCH182	Corporate & Business Laws	2020	The objective of the course is to impart basic knowledge of the important business laws along with relevant case law and to demonstrate the relationship between law and economic activity by developing in the student an awareness of legal principles involved in economic relationships and business transactions and to develop in the student an understanding of the free enterprise system and the legal safeguards of the same.	Knowledge of this subject helps Entrepreneurs to understand the indian laws to run his business smoothly.	The objective of the course is to impart basic knowledge of the important business laws along with relevant case law and to demonstrate the relationship between law and economic activity by developing in the student an awareness of legal principles involved in economic relationships and business transactions and to develop in the student an understanding of the free enterprise system and the legal safeguards of the same.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH280	Financial Accounting – II	2020	This course helps to develop conceptual understanding of the fundamentals of financial accounting system this processes transactions and other events through a book-keeping mechanism to prepare financial statements, and also to impart skills in accounting for recording various kinds of business transactions	This course will help them to evaluate the need for management accounting information, systems and practices to change in response to changes in the operating and business environments.	This course helps to develop conceptual understanding of the fundamentals of financial accounting system this processes transactions and other events through a book-keeping mechanism to prepare financial statements, and also to impart skills in accounting for recording various kinds of business transactions	https://www.amity.edu/jaipur/1_2_2.aspx
BCH281	Income Tax Law & Practice	2020	This makes acquaintance with prevailing tax laws, policies and practices a vital requirement for any individual. The program incorporates this course to introduce students to Taxation terminology and legislative provision and equip students with skills to carry out individual Income tax planning on their own, without the help of tax experts.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This makes acquaintance with prevailing tax laws, policies and practices a vital requirement for any individual. The program incorporates this course to introduce students to Taxation terminology and legislative provision and equip students with skills to carry out individual Income tax planning on their own, without the help of tax experts.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH282	Auditing & Assurance	2020	This paper aims at developing the knowledge and skills required to carry out an audit and assurance assignment. It provides the working knowledge of the audit process and standards of auditing. It also covers the process of internal control testing.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This paper aims at developing the knowledge and skills required to carry out an audit and assurance assignment. It provides the working knowledge of the audit process and standards of auditing. It also covers the process of internal control testing.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH380	Cost & Management Accounting – I	2020			skill to understand the concept of Classical macroeconomic model.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH381	Financial Management	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH382	Financial Reporting-I	2020				https://www.amity.edu/jaipur/1_2_2.aspx

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BCH384	Indirect Taxes & Amendments	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH480	Cost & Management Accounting – II	2020	It provides oppourtunities in merger and acquisitions		Understand the characteristics of different financial assets such as money market instruments, bonds, and stocks, and how to buy and sell these assets in Macro Economics.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH481	Financial Reporting-II	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH482	Strategic Business Leader I	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH483	Strategic Business Reporting- I	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH582	Strategic Business Leader II	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH583	Strategic Business Reporting- II	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH584	Advanced Financial Management-I	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH585	Advanced Performance Management-	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH586	Advanced Audit and Assurance- I	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH682	Strategic Business Leader III	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH684	Advanced Financial Management-II	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH685	Advanced Performance Management-II	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCH686	Advanced Audit and Assurance- II	2020				https://www.amity.edu/jaipur/1_2_2.aspx

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BCH120	Business Mathematics	2018	This course aims to familiarize the students with basic mathematical tools and the application of the same to business and economic situations. The course is designed in such a way that it provides an understanding of the basics of business mathematics as well as acquaints them in using those mathematical techniques in the real business world. The knowledge of this subject is required for undergraduate commerce students who wish to choose higher education or Industry/field as their career	Every start up requires proper analysis of existing and forecasted data. Sattistical tools will help a new venture to plan strategies and execute well	This course aims to familiarize the students with basic mathematical tools and the application of the same to business and economic situations. The course is designed in such a way that it provides an understanding of the basics of business mathematics as well as acquaints them in using those mathematical techniques in the real business world. The knowledge of this subject is required for undergraduate commerce students who wish to choose higher education or Industry/field as their career	https://www.amity.edu/jaipur/1_2_2.aspx
BCH215	Fundamentals of Computer Applications in Business	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BCH505	Fundamentals of Investment	2018	The Course entails the concepts of investment management and portfolio. It gives an exposure to investment avenues available and their features. The course includes an introduction to the security market, trading mechanism and participants of the security market. It provides an understanding of security analysis and portfolio management. The curriculum is an excellent blend of theoretical as well as applied aspects of portfolio management	The Course entails the concepts of investment management and portfolio. It gives an exposure to investment avenues available and their features. The course includes an introduction to the security market, trading mechanism and participants of the security market. It provides an understanding of security analysis and portfolio management. The curriculum is an excellent blend of theoretical as well as applied aspects of portfolio management	The Course entails the concepts of investment management and portfolio. It gives an exposure to investment avenues available and their features. The course includes an introduction to the security market, trading mechanism and participants of the security market. It provides an understanding of security analysis and portfolio management. The curriculum is an excellent blend of theoretical as well as applied aspects of portfolio management	https://www.amity.edu/jaipur/1_2_2.aspx
BCH506	Financial Markets, Institutions & Financial Services	2018	Banks and other financial institutions are the financial markets work. Student able to understand how financial markets able to move funds from people who save to people who have productive investment opportunities.	Banks and other financial institutions are the financial markets work. Student able to understand how financial markets able to move funds from people who save to people who have productive investment opportunities.	Banks and other financial institutions are the financial markets work. Student able to understand how financial markets able to move funds from people who save to people who have productive investment opportunities.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH509	International Business	2018	the course aims at exposing the students to the International Business activities. The course would develop a general perspective about managing international markets both in operational as well as strategic context. It covers the key concepts and theories in the field and how they can be applied to real business situations. It exposing the students to the international business activities. The course would develop a general perspective about managing international business both in operational as well as strategic context.	the course aims at exposing the students to the International Business activities. The course would develop a general perspective about managing international markets both in operational as well as strategic context. It covers the key concepts and theories in the field and how they can be applied to real business situations. It exposing the students to the international business activities. The course would develop a general perspective about managing international business both in operational as well as strategic context.	the course aims at exposing the students to the International Business activities. The course would develop a general perspective about managing international markets both in operational as well as strategic context. It covers the key concepts and theories in the field and how they can be applied to real business situations. It exposing the students to the international business activities. The course would develop a general perspective about managing international business both in operational as well as strategic context.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BCH512	Human Resource Management	2018	This course provides the aptly-detailed familiarity about the human resource processes with a focus upon translation of theories to practice resulting into understanding of HR processes, issues, and human resource development and thereby equips the students to be in a better position to handle the complications of day-to-day functioning of modern organizations. During the course, students will be exposed to and will discuss current human resource practices and will participate in exercises designed to enhance critical skills.	course helps to Understand and evaluate, design and formulate various HRM processes such as recruitment, orientation, selection, training, appraisals and reward system, compensation etc. All is needed to run a business.	This course provides the aptly-detailed familiarity about the human resource processes with a focus upon translation of theories to practice resulting into understanding of HR processes, issues, and human resource development and thereby equips the students to be in a better position to handle the complications of day-to-day functioning of modern organizations. During the course, students will be exposed to and will discuss current human resource practices and will participate in exercises designed to enhance critical skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH514	Industrial Relations & Labour Laws	2018	To help students to understand the importance and various aspects of industrial relations and labour laws	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up		https://www.amity.edu/jaipur/1_2_2.aspx
BCH516	Corporate Tax Planning	2018	To help students to understand the concept of Corporate Tax planning and give them a practical exposure to the method of computing corporate tax.	To help students to understand the concept of Corporate Tax planning and give them a practical exposure to the method of computing corporate tax.	To help students to understand the concept of Corporate Tax planning and give them a practical exposure to the method of computing corporate tax.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH518	Business Data Processing	2018	At the end of the course the students will work on a mini project. The students need to document end to end data analysis process in form of a report, demonstrating their learning from the course contents.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	At the end of the course the students will work on a mini project. The students need to document end to end data analysis process in form of a report, demonstrating their learning from the course contents.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH570	Corporate Accounting	2018	The course introduces students with the accounting procedures and concepts used at the time of crucial events like issue of shares, restructuring and liquidation of the companies. The course aims at bridging up the gap between the theory and the application of accounting. With its deliberated scope the course offers a complete learning in the field of accounting and its application for corporates	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The course introduces students with the accounting procedures and concepts used at the time of crucial events like issue of shares, restructuring and liquidation of the companies. The course aims at bridging up the gap between the theory and the application of accounting. With its deliberated scope the course offers a complete learning in the field of accounting and its application for corporates	https://www.amity.edu/jaipur/1_2_2.aspx
BCH590	Marketing Management	2018	The course will focus upon the nature and purpose of marketing, followed by the fundamentals of each of the most important marketing tasks. It will facilitate the participants in building an understanding of the challenges of marketing management in manufacturing and service industries: analyzing marketing environments; evaluating strategic alternatives and designing and implementing marketing programs, by integrating product and service decisions with those on pricing, distribution and promotion	The course will focus upon the nature and purpose of marketing, followed by the fundamentals of each of the most important marketing tasks. It will facilitate the participants in building an understanding of the challenges of marketing management in manufacturing and service industries: analyzing marketing environments; evaluating strategic alternatives and designing and implementing marketing programs, by integrating product and service decisions with those on pricing, distribution and promotion		https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BCH592	Personal Finance Management	2018	The course presents essential knowledge and skills to make informed decisions about real world financial issues. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. The course covers the basic principles needed for effective personal finance management, including the practical applications of money management, budgeting, taxes, credit, insurance, housing, investments, and retirement planning.	The course presents essential knowledge and skills to make informed decisions about real world financial issues. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. The course covers the basic principles needed for effective personal finance management, including the practical applications of money management, budgeting, taxes, credit, insurance, housing, investments, and retirement planning.	The course presents essential knowledge and skills to make informed decisions about real world financial issues. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. The course covers the basic principles needed for effective personal finance management, including the practical applications of money management, budgeting, taxes, credit, insurance, housing, investments, and retirement planning.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH595	Financial Statement Analysis	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BCH611	Advertising & Personal Selling	2018	This course provides students an opportunity to gain an understanding of advertising and other marketing communications practices. The course emphasizes on developing students' abilities to use Advertising as a tool to Create Awareness, Position the Product, and make an impact in the Consumers' Minds. This comprehensive course also familiarizes students' with Media Planning and creativity in advertising	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This course provides students an opportunity to gain an understanding of advertising and other marketing communications practices. The course emphasizes on developing students' abilities to use Advertising as a tool to Create Awareness, Position the Product, and make an impact in the Consumers' Minds. This comprehensive course also familiarizes students' with Media Planning and creativity in advertising	https://www.amity.edu/jaipur/1_2_2.aspx
BCH612	Service Marketing	2018	The course brings out the emerging service environment in India and the world. It emphasises the distinctive aspects of Services Marketing. It aims at equipping students with concepts and techniques that help in taking decisions relating to various services marketing situations	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The course brings out the emerging service environment in India and the world. It emphasises the distinctive aspects of Services Marketing. It aims at equipping students with concepts and techniques that help in taking decisions relating to various services marketing situations	https://www.amity.edu/jaipur/1_2_2.aspx
BCH614	Compensation Management	2018	This course help students to understand the concept of compensation management and able to implement wage policies keeping in view the labour legislations	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This course help students to understand the concept of compensation management and able to implement wage policies keeping in view the labour legislations	https://www.amity.edu/jaipur/1_2_2.aspx
BCH661	Regulation of Domestic and Foreign Exchange Markets	2018	The overall aim of this course is to enable the participant to extract, develop and gain further insight into the concepts domestic and foreign exchange markets. In this course, you will learn a lot about fundamental & technical analysis and trading strategies that will help learner start making profits from the Forex market, how to trade patterns that will not only help you identify market moves and trend reversals but also increase your learning of Forex markets.	The overall aim of this course is to enable the participant to extract, develop and gain further insight into the concepts domestic and foreign exchange markets. In this course, you will learn a lot about fundamental & technical analysis and trading strategies that will help learner start making profits from the Forex market, how to trade patterns that will not only help you identify market moves and trend reversals but also increase your learning of Forex markets.	The overall aim of this course is to enable the participant to extract, develop and gain further insight into the concepts domestic and foreign exchange markets. In this course, you will learn a lot about fundamental & technical analysis and trading strategies that will help learner start making profits from the Forex market, how to trade patterns that will not only help you identify market moves and trend reversals but also increase your learning of Forex markets.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH662	Venture Planning	2018		The course aims at acquaint students with different aspects of starting new business. The students will be given an understanding the creative processes in generating new ideas.		https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BCH663	Banking and Insurance	2018	This course has been designed to help students think independently about real world situations by helping them master the basic technical tools that enable them to be able to get ready for a promising career in this sector.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This course has been designed to help students think independently about real world situations by helping them master the basic technical tools that enable them to be able to get ready for a promising career in this sector.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH671	Entrepreneurship Development	2018		The course will focus upon making student understand how to develop new venture, business plan and what are the legal aspects, competitive aspects related to setting up their own enterprise or their own business so that they can become successful entrepreneur in the coming times.	The course will focus upon making student understand how to develop new venture, business plan and what are the legal aspects, competitive aspects related to setting up their own enterprise or their own business so that they can become successful entrepreneur in the coming times.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH672	Spreadsheet Modelling in Business	2018	This course is aimed to study the computer programs for business and financial modeling and structuring and solving financial problems using spreadsheets and structured programming techniques. The objective of the course is to develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.	Course Provides comprehensive knowledge of Present data with the help of various charts prepared using MS Excel and SPSS Carry out data analysis using MS Excel	This course is aimed to study the computer programs for business and financial modeling and structuring and solving financial problems using spreadsheets and structured programming techniques. The objective of the course is to develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH673	E-Commerce & its Applications	2018		This course introduces the concepts, vocabulary, and procedures associated with E-Commerce and the Internet. The student gains an overview of all aspects of E-Commerce. Topics include development of the Internet and E-Commerce, options available for doing business on the Internet, features of Web sites and the tools used to build an E-Commerce web site, marketing issues, payment options, security issues, and customer service.		https://www.amity.edu/jaipur/1_2_2.aspx
BCH674	Ethics & Governance	2018	The objective of this paper is to enable the students understand the significance and relevance of values and ethical conduct in governance. The course will attempt to highlight the concept of corporate social responsibility, ethics in governance and performance evaluation of Board of Directors along with evaluation and control. At the same time it will acquaint students with relevant committees and their recommendations in respect of effective governance.	The objective of this paper is to enable the students understand the significance and relevance of values and ethical conduct in governance. The course will attempt to highlight the concept of corporate social responsibility, ethics in governance and performance evaluation of Board of Directors along with evaluation and control. At the same time it will acquaint students with relevant committees and their recommendations in respect of effective governance.		https://www.amity.edu/jaipur/1_2_2.aspx
BCH679	Indian Economy	2018				https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BCH421	Data Analytics	2017	This course is aimed to study the computer programs for business and financial modeling and structuring and solving financial problems using spreadsheets and structured programming techniques. The objective of the course is to develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This course is aimed to study the computer programs for business and financial modeling and structuring and solving financial problems using spreadsheets and structured programming techniques. The objective of the course is to develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH422	Industry & Company Analysis	2017	this course to give the student basic understanding about various industries such as market structure, trends of key indicators, major players, and other important dimensions. The aim is to connect the students with real business world. The daily classes are thus devoted to discussing problems and situation of various industries at present scenario. By the end of the course, student will be able to understand various industries structures, firm technologies and economic and social policies affect on real business and their outcomes. They will be able to think about several questions relevant to the operation of the real business world.	this course to give the student basic understanding about various industries such as market structure, trends of key indicators, major players, and other important dimensions. The aim is to connect the students with real business world. The daily classes are thus devoted to discussing problems and situation of various industries at present scenario. By the end of the course, student will be able to understand various industries structures, firm technologies and economic and social policies affect on real business and their outcomes. They will be able to think about several questions relevant to the operation of the real business world.	this course to give the student basic understanding about various industries such as market structure, trends of key indicators, major players, and other important dimensions. The aim is to connect the students with real business world. The daily classes are thus devoted to discussing problems and situation of various industries at present scenario. By the end of the course, student will be able to understand various industries structures, firm technologies and economic and social policies affect on real business and their outcomes. They will be able to think about several questions relevant to the operation of the real business world.	https://www.amity.edu/jaipur/1_2_2.aspx
BHM326	Room Division Management – I Lab	2019	Knowledge of working in systems related to hotel operations		Skills required to operate on Property Management System, Situation Handling & Role Plays	https://www.amity.edu/jaipur/1_2_2.aspx
BHM509	Revenue Management	2019	Knowledge of preparing reports		Revenue Management Reports	https://www.amity.edu/jaipur/1_2_2.aspx
BHM627	Food styling & presentation - Lab	2019	Knowlede on modern Food presentations	Food presentation skills help in Food business entrepreneurship development	Elements of Food Presentation, Garnishes are the skill sets offered to being a successful Chef	https://www.amity.edu/jaipur/1_2_2.aspx
BHM710	Resort & Club Management	2019	Managing the Resort	Resort Planning and Development	Knowledge on various planning system for operation of resort & club are the skill sets which prepares the student to face the niche area of club management/resorts.	https://www.amity.edu/jaipur/1_2_2.aspx
BHM708	Restaurant Management	2019	Knowledge on Bar & operations	Marketing and selling techniques of BAR required for entrepreneurship in Beverage business	Understanding of different methods and handling services	https://www.amity.edu/jaipur/1_2_2.aspx
BHM860	Dissertation – Research project on Hospitality & Tourism	2019	Dissertation – Research project on Hospitality & Tourism	The entire content prepares a student to become an entrepreneur		https://www.amity.edu/jaipur/1_2_2.aspx
BHM850	Practice School/ Specialized Training	2019	Skills developed to work in Industry	The entire content prepares a student to become an entrepreneur	Practical training in hotels and industry are the strongest skill sets acquired by the students	https://www.amity.edu/jaipur/1_2_2.aspx
MTM108	Fundamentals of Hospitality Management	2021				https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
MTM109	Cultural Tourism Resources of India	2021	It enables students to recognize and value India's tourist attractions and cultural and natural heritage, to create awareness for preservation of resources.			https://www.amity.edu/jaipur/1_2_2.aspx
MTM310	Geography & International Tourism	2021	It provides knowledge of Geography in Tourism, Latitude, Longitude, International Date Line. Time Zone & calculation of Time. Time Differences, GMT variations will help students in employability			https://www.amity.edu/jaipur/1_2_2.aspx
MTM311	Special Interest Tourism	2021				https://www.amity.edu/jaipur/1_2_2.aspx
MTM408	Tribal Tourism in India	2021				https://www.amity.edu/jaipur/1_2_2.aspx
MTM409	Tourism Transportation	2021	Knowledge about managing different tour package makes students employable			https://www.amity.edu/jaipur/1_2_2.aspx
MTM410	Managing Tour Package & Operations	2021	preparing different itinerary and design different types of tour packages make the course employable	Knowledge of preparing different itinerary and design different types of tour packages can help students in starting travel business	It develops skills of preparing different itinerary and design different types of tour packages	https://www.amity.edu/jaipur/1_2_2.aspx
AM101	APPLIED MATHEMATICS - I	2021	To develop the advanced concepts of calculus and its applications.To equip the students for finding solutions of differential equations and their applications.To perform integration and differentiation using vector calculus techniques.			https://www.amity.edu/jaipur/1_2_2.aspx
AP102	APPLIED PHYSICS - I - FIELDS AND WAVES	2021			To acquaint the students with the fundamental laws and principles involved in motion so that they develop abilities and skill that are relevant to the study and practice of Physics.	https://www.amity.edu/jaipur/1_2_2.aspx
BME103	ENGINEERING MECHANICS	2021			Student can static and dynamic system's problem which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx
BEE105	BASIC ELECTRICAL ENGINEERING	2021		Students can acquire the knowledge about the constructional concepts & working principles for the applications of DC machines, AC machines & measuring instruments.which creates entrepreneurship development in students.	Student can Capable of analysis of single phase AC circuits, the representation of alternating quantities and determining the power in these circuits which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx
BCS101	English	2021	The course summarizes the components of basic grammar and communication skills and leads the students to explore new ideas and trends of Communication in the present scenario. It helps them to discuss and interpret key ideas, themes and aesthetic modalities and explain how the ideas, themes and modalities arose within a given professional context.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The course summarizes the components of basic grammar and communication skills and leads the students to explore new ideas and trends of Communication in the present scenario. It helps them to discuss and interpret key ideas, themes and aesthetic modalities and explain how the ideas, themes and modalities arose within a given professional context.	https://www.amity.edu/jaipur/1_2_2.aspx
FLT101	French	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLG101	German	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
FLS101	SPANISH – I	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLC101	CHINESE – I	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
BSS104	BEHAVIOURAL SCIENCE – I (Understanding Self for Effectiveness)	2021				https://www.amity.edu/jaipur/1_2_2.aspx
AC203	APPLIED CHEMISTRY	2021		Implementing Basic idea about water treatment, lubrication, corrosion, fuel, spectroscopy etc. which creates enterprenureship development in students.		https://www.amity.edu/jaipur/1_2_2.aspx
AP202	APPLIED PHYSICS - II - MODERN PHYSICS	2021			To acquaint the students with the fundamental laws and principles involved in motion so that they develop abilities and skill that are relevant to the study and practice of Physics.	https://www.amity.edu/jaipur/1_2_2.aspx
EVS001	ENVIRONMENTAL STUDIES	2021		The term environment is used to describe, in the aggregate, all the external forces, influences and conditions, which affect the life, nature, behaviour and the growth, development and maturity of living organisms. At present a great number of environment issues, have grown in size and complexity day by day, threatening the survival of mankind on earth. A study of environmental studies is quite essential in all types of environmental sciences, environmental engineering and industrial management. The objective of environmental studies is to enlighten the masses about the importance of the protection and conservation of our environment and control of human activities which has an adverse effect on the environment.		https://www.amity.edu/jaipur/1_2_2.aspx
BME203	ELEMENTS OF MECHANICAL ENGINEERING	2021				https://www.amity.edu/jaipur/1_2_2.aspx
BDS204	Programming in Python Language	2021				https://www.amity.edu/jaipur/1_2_2.aspx
BCS201	ENGLISH	2021	The course is designed with an objective to develop the basic language skills in English among the students so that confidence could be developed in them while communicating in various practical and social settings	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	The course is designed with an objective to develop the basic language skills in English among the students so that confidence could be developed in them while communicating in various practical and social settings	https://www.amity.edu/jaipur/1_2_2.aspx
BSS204	BEHAVIOURAL SCIENCE – II(PROBLEM SOLVING AND CREATIVE THINKING	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLT201	FRENCH - II	2021				https://www.amity.edu/jaipur/1_2_2.aspx

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Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
FLG201	GERMAN – II	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLS201	SPANISH – II	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLC201	CHINESE – II	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
BME104	Element of Mechanical Engineering	2021	This course is to impart the basic knowledge of thermodynamics, stress- strain, materials & their properties and various manufacturing processes to the students of all engineering discipline	Demonstrate awareness of use of basic mechanical tools in day to day life	Demonstrate awareness of use of basic mechanical tools in day to day life	https://www.amity.edu/jaipur/1_2_2.aspx
BCS104	Introduction to Computers & Programming in C	2021	Student can Designing and coding moderate sized programs running to the order of a few hundred lines of code, and Reading, understanding and modifying code written by others. which make progress in terms of employability	Students can attempt algorithmic solutions to problems. which creates enterprenureship development in students.	Student can Attempting algorithmic solutions to problems which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx
BEE106	Basic Electrical Engineering	2021		Students can acquire the knowledge about the constructional concepts & working principles for the applications of DC machines, AC machines & measuring instruments. which creates enterprenureship development in students.	Student can Capable of analysis of single phase AC circuits, the representation of alternating quantities and determining the power in these circuits which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx
AP122	Applied Physics lab	2021			To acquaint the students with the fundamental laws and principles involved in motion so that they develop abilities and skill that are relevant to the study and practice of Physics.	https://www.amity.edu/jaipur/1_2_2.aspx
AC123	Applied Chemistry lab	2021	the students will acquire knowledge about the chemistry and its applications in industries. Student can use material in engineering field.	Students can Interpret the results of scientific studies of environmental problems and propose solutions to these for creating enterprenureship development in students.		https://www.amity.edu/jaipur/1_2_2.aspx
BME124	Element of Mechanical Engineering lab	2021	This course is to impart the basic knowledge of thermodynamics, stress- strain, materials & their properties and various manufacturing processes to the students of all engineering discipline	Demonstrate awareness of use of basic mechanical tools in day to day life	Demonstrate awareness of use of basic mechanical tools in day to day life	https://www.amity.edu/jaipur/1_2_2.aspx
BCS124	Programming in C lab	2021	Student can Designing and coding moderate sized programs running to the order of a few hundred lines of code, and Reading, understanding and modifying code written by others. which make progress in terms of employability	Students can attempt algorithmic solutions to problems. which creates enterprenureship development in students.	Student can Attempting algorithmic solutions to problems which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx
BEE125	Basic Electrical Engg. Lab	2021		Students can acquire the knowledge about the constructional concepts & working principles for the applications of DC machines, AC machines & measuring instruments. which creates enterprenureship development in students.	Student can Capable of analysis of single phase AC circuits, the representation of alternating quantities and determining the power in these circuits which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx
BCS203	Object Oriented Programming using C++	2021	Student can Designing and coding moderate sized programs running to the order of a few hundred lines of code, and Reading, understanding and modifying code written by others. which make progress in terms of employability	Students can attempt algorithmic solutions to problems. which creates enterprenureship development in students.	Student can Attempting algorithmic solutions to problems which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx

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Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BME204	Engineering Mechanics	2021	To provide fundamental knowledge of force system and its effect on the behaviour of the bodies that may be in dynamic or in static state. It includes the equilibrium of different structures like beams, frames, truss etc and the force transfer mechanism in the different components of a body under given loading condition.	to analyse the force system and its effects	to analyse the force system and its effects	https://www.amity.edu/jaipur/1_2_2.aspx
AP222	Applied Physics - II – Modern Physics lab	2021			To acquaint the students with the fundamental laws and principles involved in motion so that they develop abilities and skill that are relevant to the study and practice of Physics.	https://www.amity.edu/jaipur/1_2_2.aspx
BCS223	Object Oriented Programming using C++lab	2021	Student can Designing and coding moderate sized programs running to the order of a few hundred lines of code, and Reading, understanding and modifying code written by others. which make progress in terms of employability	Students can attempt algorithmic solutions to problems which creates entrepreneurship development in students.	Student can Attempting algorithmic solutions to problems which creates skill development in respective fields.	https://www.amity.edu/jaipur/1_2_2.aspx
BME224	Engineering Mechanics lab	2021	To provide fundamental knowledge of force system and its effect on the behaviour of the bodies that may be in dynamic or in static state. It includes the equilibrium of different structures like beams, frames, truss etc and the force transfer mechanism in the different components of a body under given loading condition.	to analyse the force system and its effects	to analyse the force system and its effects	https://www.amity.edu/jaipur/1_2_2.aspx
BME225	Engineering Graphics lab	2021	Identify different geometrical shape and their application used in engineering application.	Identify different geometrical shape and their application used in engineering application.	Identify different geometrical shape and their application used in engineering application.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI301	Electronics Device and circuit	2021	Bonding forces in solids, Energy bands, Metals, Semiconductors and Insulators, Direct and Indirect semiconductors, Electrons and Holes, Intrinsic and Extrinsic materials, Conductivity and Mobility, Drift and Resistance, Effects of temperature and doping on mobility, Hall Effect. After studying this content students can get chance of employability.	Module II: P- N Junction Fundamentals of BJT operation, Amplification with BJTs, BJT Fabrication, The coupled Diode model (Ebers-Moll Model), Switching operation of a transistor, Cutoff, saturation, switching cycle, specifications, Drift in the base region, Base narrowing, Avalanche breakdown. After studying this content student are able to improve their entrepreneurial quality.	Module IV: Field Effect Transistors Thermal Oxidation, Diffusion, Rapid Thermal Processing, Ion implantation, chemical vapour deposition, photolithography, Etching, metallization.	https://www.amity.edu/jaipur/1_2_2.aspx
BEC303	Circuits & Systems	2021	The content intends to make the students proficient in analyzing circuits. Time and Frequency domain analysis of RL, RC and RLC circuits, Linear constant coefficient differential equation which will help students to improve the employability.	The theorems like Reciprocity theorem, Superposition theorem, Thevenin's and Norton's theorems, Millman's theorem, Maximum power transfer theorem, Compensation theorem, Tellegan's theorem which will help students to improve their entrepreneurial quality.	The student should be able to construct and interpret block diagrams and signal flow graphs of control systems and to use the basic methods of determining their stability with this students skills will be increased.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BRI302	Theory of automation and computation	2021	Introduction, Deterministic Finite Automata (DFA) -Formal definition, simpler notations (state transition diagram, transition table), language of a DFA. Nondeterministic Finite Automata (NFA)- Definition of NFA, language of an NFA, Equivalence of Deterministic and Nondeterministic Finite Automata, Applications of Finite Automata, Finite Automata with Epsilon Transitions, Eliminating Epsilon transitions, Minimization of Deterministic Finite Automata, Finite automata with output (Moore and Mealy machines) and Inter conversion	Regular Expressions- Converting from DFA's to Regular Expressions, Converting Regular Expressions to Automata, applications of Regular Expressions. REGULAR GRAMMARS: Definition, regular.After studying this content student are able to improve their entrepreneurial quality.	Definition, Model, Acceptance of CFL, Acceptance by Final State and Acceptance by Empty stack and its Equivalence, Equivalence of CFG and PDA. TURING MACHINES (TM): Formal definition and behaviour, Languages of a TM, TM as accepters, TM as a computer of integer functions, Types of TMs	https://www.amity.edu/jaipur/1_2_2.aspx
BEC305	Digital circuit system-I	2021	The course deliver the basic approaches to the design of software applications. Apply the above to design, implement, appropriately document and test a Java application of medium complexity, consisting of multiple classes.		Investigate and use new technologies, techniques, procedures, and standards in their expertise domain. Learn how to use design and development tools, as well as how to conduct systematic evaluations utilising current approaches.	https://www.amity.edu/jaipur/1_2_2.aspx
BEC321	Electronics Device and circuit Lab	2021	This course builds from basic knowledge of Semiconductor Physics to an understanding of basic devices and their models which will enhance employability.		This course builds a foundation for courses on VLSI design and analog CMOS IC Design will increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BEC323	Circuits & Systems Lab	2021				https://www.amity.edu/jaipur/1_2_2.aspx
BEC325	Digital circuit system I LAB	2021	The Java programs using classes & objects and various control constructs such as loops etc, and data structures such as arrays, structures and functions which will help students to improve the employability.	The Input/Output and random files programs in Java and Java programs using Event driven concept which will help students to improve their entrepreneurial quality.		https://www.amity.edu/jaipur/1_2_2.aspx
BRI303	Electrical and Electronic materials	2021			This course builds a foundation for courses on MATERIAL design	https://www.amity.edu/jaipur/1_2_2.aspx
BRI304	Electronic measurement	2021	D.C. Bridges: Wheatstone's bridge, Sensitivity & Limitations; Carey Foster Bridge; Kelvin double bridge; Megaohm Bridge. A.C. Bridges: Maxwell's inductance Capacitance Bridge; Andersons Bridge; De Sauty's Bridge; Schering Bridge.After studying this content students can get chance of employability.	Component Measuring Instruments:	Cathode Ray Oscilloscope: CRT Construction, Basic CRO circuits, CRO Probes, Basic functioning, Techniques of Measurement of Voltage, Current, Phase Angle and Frequency, , Multibeam, multi trace, storage & sampling Oscilloscopes.	https://www.amity.edu/jaipur/1_2_2.aspx
BCS301	Communication Skills – I	2021			Identify and communicate vocabulary and grammar rules in English and Demonstrate your the course delivery of the subtlety between script and sound in English.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BSS304	Behavioral Science-III (Interpersonal Communication)	2021				https://www.amity.edu/iaipur/1_2_2.aspx
FLT301	French	2021				https://www.amity.edu/iaipur/1_2_2.aspx
FLG301	German	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/iaipur/1_2_2.aspx
FLS301	Spanish	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/iaipur/1_2_2.aspx
FLC301	Chinese	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/iaipur/1_2_2.aspx
BRI402	Microprocessor and microcontroller system	2021	Signal descriptions of 8086-common function signals, timing diagrams, Interrupts of 8086. operation.After studying this content students can get chance of employability.	interfacing to 8051, interfacing of key board, display. Stepper motor interfacing, D/A & A/D converter.After studying this content student are able to improve their entrepreneurial quality.	Interfacing With advanced devices: Memory interfacing to 8051	https://www.amity.edu/iaipur/1_2_2.aspx
BRI403	Sensor and Transducer	2021		brief discussion with respect to material, construction and input output variable, Ferromagnetic plunger type, short analysis. LVDT: Construction, material, output input relationship, I/O curve, discussion. Proximity sensor	calculation of sensitivity. Stretched diaphragm type: microphone, response characteristic	https://www.amity.edu/iaipur/1_2_2.aspx
BRI404	Linear Integrated circuit	2021	, BJT Differential amplifier with active loads, Basic information about op-amps – Ideal Operational Amplifier - General operational amplifier stages -and internal circuit diagrams of IC 741 , Instrumentation amplifier, Integrator, Differentiator, Logarithmic amplifier, Antilogarithmic amplifier Analog and Digital Data Conversions, D/A converter.After studying this content students can get chance of employability.	Sigma – Delta converters. tooth wave generator, ICL8038 function generator, Timer IC 555, IC Voltage regulators – Three terminal fixed and adjustable voltage regulators - IC 723 general purpose regulator After studying this content student are able to improve their entrepreneurial quality.	– Variable transconductance technique, analog multiplier ICs and their application	https://www.amity.edu/iaipur/1_2_2.aspx
BRI421	Computer aided design and Analysis lab	2021			Sigma – Delta converters. tooth wave generator, ICL8038 function generator, Timer IC 555, IC Voltage regulators – Three terminal fixed and adjustable voltage regulators - IC 723 general purpose regulator After studying this content student are able to improve their entrepreneurial quality.	https://www.amity.edu/iaipur/1_2_2.aspx
BRI422	Microprocessor and microcontroller system lab	2021			Interfacing With advanced devices: Memory interfacing to 8051	https://www.amity.edu/iaipur/1_2_2.aspx
BRI423	Sensor and Transducer lab	2021			Interfacing With advanced devices: Memory interfacing to sensors	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BRI424	Linear Integrated circuit	2021		Sigma – Delta converters. tooth wave generator, ICL8038 function generator, Timer IC 555, IC Voltage regulators – Three terminal fixed and adjustable voltage regulators - IC 723 general purpose regulator After studying this content student are able to improve their entrepreneurial quality.	Variable transconductance technique, analog multiplier ICs and their application	https://www.amity.edu/jaipur/1_2_2.aspx
BRI405	Signal and System	2021	LTI systems described by differential and difference equation, analysis of LTI Systems, interconnection of systems.After studying this content students can get chance of employability.	convergence of the Fourier series, properties of discrete time Fourier series, Fourier series and LTI systems.After studying this content student are able to improve their entrepreneurial quality.	Continuous time Fourier transform, properties of continuous time Fourier transform, discrete time Fourier transform, properties of discrete time Fourier transform; applications; Bandwidth	https://www.amity.edu/jaipur/1_2_2.aspx
BRI406	Virtual instruments	2021	versus Traditional Instruments Instrumentation , Ethernet and TCP/ IP Protocols, REAL TIME CONTROL IN VI .After studying this content students can get chance of employability.	ISA, PCI, RS232, RS422 and RS485 – Interface Buses:- USB, PCMCIA, VXI, SCXI and PXI , PC based instrumentation, analog and digital interfaces.After studying this content student are able to improve their entrepreneurial quality.	r – Proportional controller – Modeling and	https://www.amity.edu/jaipur/1_2_2.aspx
BCS401	Communication Skills – II	2021			Identify and communicate vocabulary and grammar rules in English and Demonstrate your the course delivery of the subtlety between script and sound in English.	https://www.amity.edu/jaipur/1_2_2.aspx
BSS404	Behavioral Science-IV (Relationship Management)	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLT401	French	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLG401	German	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLS401	Spanish	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLC401	Chinese	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
BRI502	Robotics & Automation	2021	Robot anatomy, Basic structure of robots, Resolution, Accuracy and repeatability, and Classification and Structure of robots, Point to point and continuous path systems, automation principles and strategies, scope of automation, socio-economic Tools: Simulation Models.After studying this content students can get chance of employability.	s, Analysis of a Single Station Assembly.After studying this content student are able to improve their entrepreneurial quality.	Interfacing Handling and Storage with Manufacturing.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BRI503	Control System/DSP	2021	LTI systems described by differential and difference equation, analysis of LTI Systems, interconnection of systems.After studying this content students can get chance of employability.	signals, convergence of the Fourier series, properties of discrete time Fourier series, Fourier series and LTI systemsAfter studying this content student are able to improve their entrepreneurial quality..	time Fourier transform, discrete time Fourier transform, properties of discrete time Fourier transform; applications; Bandwidth determination of signals and systems.	https://www.amity.edu/jaipur/1_2_2.aspx
BEC550	Industrial Training (Evaluation)	2021	The MATLAB LTI viewer and Simulink LTI viewer, SISO design tool will improve the employability.	The MATLAB features, variables, keywords, output formats, Help provisions		https://www.amity.edu/jaipur/1_2_2.aspx
BRI521	Arduino and Its Interfacing Lab	2021			. After getting started in Jupyter, we'll learn how to use numpy for data analysis. After studying this content student are able to improve their entrepreneurial quality.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI522	Robotics & Automation lab	2021	Robot anatomy, Basic structure of robots, Resolution, Accuracy and repeatability, and Classification and Structure of robots, Point to point and continuous path systems, automation principles and strategies, scope of automation, socio-economic Tools: Simulation Models, After studying this content students can get chance of employability.	Analysis of a Single Station Assembly	Interfacing Handling and Storage with Manufacturing.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI523	Control System lab/DSP	2021	P, PI and PID Controllers.After studying this content students can get chance of employability.	FIR filter design.	state space representation of LTI discrete time systems.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI504	Python for data science	2021	science process and the value of learning data science. Background: In this optional week, we provide a brief background in python or unix to get you up and running. If you are already familiar with python and/or unix, feel free to skip this content. Natural Language Processing Toolkit (NLTK)	After getting started in Jupyter, we'll learn how to use numpy for data analysis. After studying this content student are able to improve their entrepreneurial quality.	Pandas, built on top of numpy use sci-kit learn - a powerful library for machine learning.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI505	R for data science	2021	R and Quitting RStudio. the ggplot2 package to visualize data , Building data.After studying this content students can get chance of employability.	Measures of central tendency.After studying this content student are able to improve their entrepreneurial quality.	Creating Variables, Numeric, Character and Logical Data, Vectors, Data Frames, Factors, Sorting Numeric, Character, and Factor Vectors, Special Values.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI506	Industrial Automation	2021	Control of Double acting circuit, Impulse operation-SLE: Planning and implementation issues. , Inspection, Specifying limits of variability	Manual Labor in production systems Automated Production Lines Cellular Manufacturing.After studying this content student are able to improve their entrepreneurial quality.	using Mathematic models of production performance	https://www.amity.edu/jaipur/1_2_2.aspx
BCS501	Communication Skills – III	2021			Identify and communicate vocabulary and grammar rules in English and Demonstrate your the course delivery of the subtlety between script and sound in English.	https://www.amity.edu/jaipur/1_2_2.aspx
BSS504	Behavioral Science-V (Understanding self for effectiveness	2021				https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
FLT501	French	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLG501	German	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLS501	Spanish	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLC501	Chinese	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
BRI601	Robotics motor and drives	2021	Page making industries and	Tactile sensors -Touch sensors , Agricultural area.After studying this content student are able to improve their entrepreneurial quality.	History, Present status, and future trends in Robotics and automation - Laws of Robotics-Robot definitions,	https://www.amity.edu/jaipur/1_2_2.aspx
BRI602	Mechatronics and robotics application	2021	Man-Machine Interface	Microfabrication techniques LIGA Process.After studying this content student are able to improve their entrepreneurial quality.	Safety standards for Industrial Robot ; Microfabrication techniques LIGA Process:	https://www.amity.edu/jaipur/1_2_2.aspx
BRI603	IoT and cloud computing	2021	Arduino Uno Architecture, and Sensor & Actuators with Arduino and Overview of Sensors working , Microsoft Azure and Google Cloud Platform.	Basic Networking with ESP8266 WiFi module. , AWS EC2, Auto Scaling.After studying this content student are able to improve their entrepreneurial quality.	Understanding IoT fundamentals Management, storage and processing of data on networks of the internet serverAfter studying this content students can increase the skills.,	https://www.amity.edu/jaipur/1_2_2.aspx
BRI604	Digital Communications	2021	Signal Space Analysis: Geometric representation of signals, Gram Schmidt orthogonization procedure Transmission After studying this content students can get chance of E34:K34employability.		Binary modulation schemes in the presence of noise, BER for BPSK, QPSK, BFSK 9.After studying this content students can increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI621	Robotics motor and drives lab	2021	Page making industries After studying this content students can get chance of employability.	Tactile sensors -Touch sensors , Agricultural areas.After studying this content student are able to improve their entrepreneurial quality.	History, Present status, and future trends in Robotics and automation - Laws of Robotics-Robot definitions, After studying this content students can increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI622	Mechatronics and robotics application lab	2021	Man-Machine Interface After studying this content students can get chance of employability.	Microfabrication techniques LIGA Process.After studying this content student are able to improve their entrepreneurial quality.	Safety standards for Industrial Robot ; Microfabrication techniques LIGA Process:After studying this content students can increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI623	IoT and cloud computing lab	2021	Arduino Uno Architecture, and Sensor & Actuators with Arduino and Overview of Sensors working , Microsoft Azure and Google Cloud Platform.	Basic Networking with ESP8266 WiFi module. , AWS EC2, Auto Scaling.After studying this content student are able to improve their entrepreneurial quality.	Understanding IoT fundamentals Management, storage and processing of data on networks of the internet server,After studying this content students can increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI624	Digital Communications lab	2021	Signal Space Analysis: Geometric representation of signals, Gram Schmidt orthogonization procedure Transmission After studying this content students can get chance of E34:K34employability.		Binary modulation schemes in the presence of noise, BER for BPSK, QPSK, BFSK 9.After studying this content students can increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI605	Tools and technique for data science	2021	Understanding IoT fundamentals Management, storage and processing of data on networks of the internet serverAfter studying this content students can increase the skills.E34:K34,	, SAS, Tableau, Statistical concepts.After studying this content student are able to improve their entrepreneurial quality.	The concept of data types; variables, assignments; immutable variables; numerical types; arithmetic operators and expressions; comments in the program; and understanding error messages. After studying this content students can increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BRI606	Deep Learning	2021	Introduction to machine learning- Linear models (SVMs and Perceptrons, logistic regression)- Intro to Neural Nets: What a shallow network computes- Training a network: loss functions, back propagation, and stochastic gradient descent- Neural networks as universal function approximates.After studying this content students can get chance of employability.	Face Recognition- Scene Understanding.After studying this content student are able to improve their entrepreneurial quality.	Stochastic Optimization Generalization in neural networks.After studying this content students can increase the skills.	https://www.amity.edu/jaipur/1_2_2.aspx
BRI607	Industrial IoT 4.0	2021	Basics of Networking, Communication Protocols, Sensor Networks and some live project terminal concepts related to the above said domains.After studying this content students can get chance of employability.	Arduino, ESP8266, Introduction to raspberry Pi . 2. Measurement of temperature & pressure values of the process.After studying this content student are able to improve their entrepreneurial quality.	Introduction to Arduino, ESP8266, Introduction to raspberry Pi . 2. Measurement of temperature & pressure values of the process.	https://www.amity.edu/jaipur/1_2_2.aspx
BCS601	Communication Skills – IV	2021			Identify and communicate vocabulary and grammar rules in English and Demonstrate your the course delivery of the subtlety between script and sound in English.	https://www.amity.edu/jaipur/1_2_2.aspx
BSS604	Understanding self for Effectiveness – VI	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLT601	French	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLG601	German	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLC601	Chinese	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLS601	Spanish	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BRI702	Cloud development IoT applications	2021	<p>Introduction to IaaS, Introduction to virtualization, Different approaches to virtualization, Hypervisors, Machine Image, Virtual Machine (VM), Compute Final Year B Tech Computer Engineering Syllabus Page 38 options in the cloud, Exploring IaaS with Compute Engine, Configuring elastic apps with autoscaling, Storage options in the cloud, Structured and unstructured storage in the cloud, unstructured storage using Cloud Storage, SQL managed services, Exploring Cloud SQL, Cloud Spanner as a managed service, NoSQL managed service options, Cloud Datastore, a NoSQL document store, Cloud Bigtable as a NoSQL option. After studying this content students can get chance of employability.</p>	<p>Introduction to cloud computing Introduction to Cloud Computing: Recent trends in Computing, Grid Computing, Cluster Computing, Distributed Computing, Utility Computing, Evolution of cloud computing. After studying this content student are able to improve their entrepreneurial quality.</p>	<p>Architecture of cloud computing Cloud Computing Architecture: Cloud versus traditional architecture, Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS), , Public cloud, Private cloud, Hybrid cloud, Community cloud, Google Cloud architecture, The GCP Console, Understanding projects, Billing in GCP, Install and configure Cloud SDK, Use Cloud Shell, GCP APIs Cloud Security: Introduction to security in the cloud, the shared security model, Encryption options, Authentication and authorization with Cloud IAM, Identify Best Practices for Authorization using Cloud IAM.. Cloud Network : Introduction to networking in the cloud, Defining a Virtual Private Cloud, Public and private IP address basics, Google's network architecture, Routes and firewall rules in the cloud, Multiple VPC networks, Building hybrid clouds using VPNs, interconnecting, and direct peering, Different options for load balancing. Protocols for IoT – Infrastructure protocol (IPv4/IPv6/RPL), Identification (URIs),</p>	<p>https://www.amity.edu/jaipur/1_2_2.aspx</p>
BRI703	Advanced Robotics	2021	<p>Advanced concepts in robotics; Introduction to Cloud and Fog robotics. Module III: Automation Basic concepts of industrial automation and communication protocols for PLC, DCS. After studying this content students can get chance of employability.</p>	<p>Introduction to cloud computing Introduction to Cloud Computing: Recent trends in Computing, Grid Computing, Cluster Computing, Distributed Computing, Utility Computing, Evolution of cloud computing. Introduction to robotics; Elements of robots; Kinematics of serial and parallel robots; Velocity and static analysis of robots; Dynamics of robots; Motion planning and control; Flexible manipulators; Wheeled mobile robots; Basic concepts of industrial automation and communication protocols for PLC, DCS, SCADA systems. After studying this content students can increase the entrepreneurship.</p>	<p>Introduction to Internet of Things, Protocols and real time applications and all other operation over arrays, matplotlib: plotting of line graph, pi chart and box plot etc. After studying this content students can increase the skills.</p>	<p>https://www.amity.edu/jaipur/1_2_2.aspx</p>
BCS701	Communication Skills – V	2021	<p>Student can be investigate their personal strengths and insights to be revealed in a Formal Setup of Communication. Create right selection of words and ideas while choosing the appropriate channel of formal communication. Apply acquired knowledge with the appropriate selection of channel of formal communication. Develop and empower self with the ease of using appropriate medium of communication which help them for employable..</p>			<p>https://www.amity.edu/jaipur/1_2_2.aspx</p>

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BSS704	Understanding self for effectiveness – VII	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLT701	French	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLG701	German	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLS701	Spanish	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLC701	Chinese	2021			It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
AC223	Applied Chemistry Lab	2021	the students will acquire knowledge about the chemistry and its applications in industries. Student can use material in engineering field.			https://www.amity.edu/jaipur/1_2_2.aspx
AM201	Applied Mathematics – II	2021	To develop the advanced concepts of calculus and its applications.To equip the students for finding solutions of differential equations and their applications.To perform integration and differentiation using vector calculus techniques.			https://www.amity.edu/jaipur/1_2_2.aspx
BMT205	Introduction to Engineering and Design	2021				https://www.amity.edu/jaipur/1_2_2.aspx
BMT206	Domain Workshop	2021				https://www.amity.edu/jaipur/1_2_2.aspx
BMT301	Numerical Analysis & Programming	2021	This course deals with the techniques of numerical analysis, which gives the solution to applied problem when ordinary analytical method fails. Emphasis is given on computer programming also so that the given techniques can be used in design of engineering and scientific problems.	Able to create numerical methods to obtain approximate solutions to mathematical problems	Able to create numerical methods to obtain approximate solutions to mathematical problems	https://www.amity.edu/jaipur/1_2_2.aspx
BMT302	Mechanics of Machine	2021	to identify the alternatives to satisfy the needs of the customer and to quantify and evaluate the alternatives. It includes an introduction to the study of motion of constrained mechanism in machine systems. The objective is to develop the students understanding of basic machine design. The overall objective of this course is to learn how to analyze the motions of mechanisms, design mechanisms to have given motions.	Perform static and dynamic analysis to attain equilibrium in mechanisms and synthesize mechanisms for motion, path, and function generation.	Perform static and dynamic analysis to attain equilibrium in mechanisms and synthesize mechanisms for motion, path, and function generation.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BMT303	Manufacturing Processes	2021	This is a new developmental graduate course for students interested in learning various types of manufacturing machines and various operations that can be possible on machine to make a desired shape to the components. It anticipated that this course would become part of the new manufacturing emphasis area in mechanical engineering.	Demonstrate the various types of joining processes and select the appropriate one according to the application	Demonstrate the various types of joining processes and select the appropriate one according to the application	https://www.amity.edu/jaipur/1_2_2.aspx
BMT304	Introduction to Automation	2021			Classify automated material handling, automated storage and retrieval systems and Illustrate adaptive control systems and automated inspection methods	https://www.amity.edu/jaipur/1_2_2.aspx
BMT305	Microprocessor-I	2021	An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.	An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.		https://www.amity.edu/jaipur/1_2_2.aspx
BMT321	Numerical Analysis & Programming Lab	2021	This course deals with the techniques of numerical analysis, which gives the solution to applied problem when ordinary analytical method fails. Emphasis is given on computer programming also so that the given techniques can be used in design of engineering and scientific problems.	Able to create numerical methods to obtain approximate solutions to mathematical problems	Able to create numerical methods to obtain approximate solutions to mathematical problems	https://www.amity.edu/jaipur/1_2_2.aspx
BMT322	Mechanics of Machine lab	2021	to identify the alternatives to satisfy the needs of the customer and to quantify and evaluate the alternatives. It includes an introduction to the study of motion of constrained mechanism in machine systems. The objective is to develop the students understanding of basic machine design. The overall objective of this course is to learn how to analyze the motions of mechanisms, design mechanisms to have given motions.	Perform static and dynamic analysis to attain equilibrium in mechanisms and synthesize mechanisms for motion, path, and function generation.	Perform static and dynamic analysis to attain equilibrium in mechanisms and synthesize mechanisms for motion, path, and function generation.	https://www.amity.edu/jaipur/1_2_2.aspx
BMT323	Manufacturing Processes Lab	2021		Demonstrate the various types of joining processes and select the appropriate one according to the application	Demonstrate the various types of joining processes and select the appropriate one according to the application	https://www.amity.edu/jaipur/1_2_2.aspx
BMT324	Computer Aided Drafting & Design Lab	2021			Student will learn computer aided design layout and 3D solid modelling definition and will also gain the knowledge of design and drafting needed for mechanical engineering discipline	https://www.amity.edu/jaipur/1_2_2.aspx
BMT325	Microprocessor-I Lab	2021	An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.	An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.		https://www.amity.edu/jaipur/1_2_2.aspx
BMT307	Alternative Source of Energy	2021	This course envisages the new and renewable source of energy, available in nature and to expose the students on sources of energy crisis and the alternates available, also stress up on the application of non-conventional energy technologies.	Ability to analyse the viability of wind and alternative energy projects	Ability to analyse the viability of wind and alternative energy projects	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BMT308	Computer Graphics	2021	It is matrix based simulation software which works on algorithms. It carries various tool boxes which is helpful for day-to-day accessibility to real world. It helps in designing graphic user interface, provides tools for neural network. Hardware which are not economical for general purpose, this software tool box helps to minimize the cost ability.	Hardware which are not economical for general purpose, this software tool box helps to minimize the cost ability.	Hardware which are not economical for general purpose, this software tool box helps to minimize the cost ability.	https://www.amity.edu/jaipur/1_2_2.aspx
BMT309	Electronic Devices and Circuits	2021	This course provides the student with the fundamental skills to understand the basic of semiconductor and components like diode, transistor, FET, MOSFET and operational amplifier It will build mathematical and numerical background for design of electronics circuit & component value			https://www.amity.edu/jaipur/1_2_2.aspx
BMT401	Applied Thermodynamics	2021	this course is to impart in depth understanding of the principles of thermodynamics and heat transfer. This course also helps students understand the application of basic fluid mechanics, thermodynamic, and heat transfer principles and techniques, including the use of empirical data, to the analysis of representative fluid and thermal energy components and systems encountered in the practice of electrical, electronic, industrial, and related disciplines of engineering.	Study and research regarding alternative energy sources or transformation methods.	Study and research regarding alternative energy sources or transformation methods.	https://www.amity.edu/jaipur/1_2_2.aspx
BMT402	Fluid Mechanics	2021	Fluid Mechanics subject is that students should understand the, properties of fluids, pressure measurement devices, hydraulic forces on surfaces, buoyancy and flotation in fluids, kinematics and static behaviour of fluids, dimension and model analysis, laminar and turbulent flow, flow through pipes and orifices, boundary layer theory.	Solve simple problems relating to fluid	Solve simple problems relating to fluid	https://www.amity.edu/jaipur/1_2_2.aspx
BMT403	Metrology	2021	a basic understanding of the physical laws governing metrology and tolerance design. Gain and appreciation for the capabilities and applications of metrology through hands own experiences	Develop – Ability to perform and conduct basic experiments and evaluate the results of the same	Develop – Ability to perform and conduct basic experiments and evaluate the results of the same	https://www.amity.edu/jaipur/1_2_2.aspx
BMT404	Introduction to Smart Materials	2021		to make students familiar with the mechanical measuring systems, and the standard measurement methods. It further aims to make them to understand the basic measurement systems in the real time engineering applications.		https://www.amity.edu/jaipur/1_2_2.aspx
BMT405	Microprocessor-II	2021		An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.	An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BMT421	Thermodynamics Lab	2021	this course is to impart in depth understanding of the principles of thermodynamics and heat transfer. This course also helps students understand the application of basic fluid mechanics, thermodynamic, and heat transfer principles and techniques, including the use of empirical data, to the analysis of representative fluid and thermal energy components and systems encountered in the practice of electrical, electronic, industrial, and related disciplines of engineering.	Study and research regarding alternative energy sources or transformation methods.	Study and research regarding alternative energy sources or transformation methods.	https://www.amity.edu/iaipur/1_2_2.aspx
BMT422	Fluid Mechanics Lab	2021	Fluid Mechanics subject is that students should understand the, properties of fluids, pressure measurement devices, hydraulic forces on surfaces, buoyancy and flotation in fluids, kinematics and static behaviour of fluids, dimension and model analysis, laminar and turbulent flow, flow through pipes and orifices, boundary layer theory.	Solve simple problems relating to fluid	Solve simple problems relating to fluid	https://www.amity.edu/iaipur/1_2_2.aspx
BMT423	Metrology Lab	2021	a basic understanding of the physical loss governing metrology and tolerance design. Gain and appreciation for the capabilities and applications of metrology through hands own experiences	Develop – Ability to perform and conduct basic experiments and evaluate the results of the same	Develop – Ability to perform and conduct basic experiments and evaluate the results of the same	https://www.amity.edu/iaipur/1_2_2.aspx
BMT424	Measurement and Control Lab	2021		to make students familiar with the mechanical measuring systems, and the standard measurement methods. It further aims to make them to understand the basic measurement systems in the real time engineering applications.		https://www.amity.edu/iaipur/1_2_2.aspx
BMT425	Microprocessor-II Lab	2021		An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.	An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming – and discussion of appropriate software diagnostic language and tools.	https://www.amity.edu/iaipur/1_2_2.aspx
BMT406	Materials Science and Metallurgy	2021		Metallurgists and Materials Engineers are responsible for designing, producing, examining and testing materials as diverse as metallic engineering alloys, semiconductors and superconductors, ceramics, plastics and composites.	Metallurgists and Materials Engineers are responsible for designing, producing, examining and testing materials as diverse as metallic engineering alloys, semiconductors and superconductors, ceramics, plastics and composites.	https://www.amity.edu/iaipur/1_2_2.aspx
BMT407	Quality Control & Quality Assurance	2021		o provide quality professionals and members of management a better understanding of the quality assurance, quality control function and how it is effectively implemented in various units of an organization, whether service or manufacturing.		https://www.amity.edu/iaipur/1_2_2.aspx
BMT408	Artificial Intelligence & Robotics	2021	The field of Robotics is a multi disciplinary as robots are amazingly complex system comprising mechanical, electrical, electronic H/W and S/W and issues germane to all these.			https://www.amity.edu/iaipur/1_2_2.aspx
BMT501	Machine Design – I	2021	The objective of this course is to help students apply concepts learned in the mechanics, structure, material and manufacturing courses.			https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BMT502	Design of Mechatronics System	2021		It starts with thinking how the required function can be realized by the combination of different subsystems according to a systematic step-by-step engineering design approach applied to a realistic mechatronics design problem		https://www.amity.edu/iaipur/1_2_2.aspx
BMT503	Heat & Mass Transfer	2021	To expose students to heat transfer applications in industry.		Calculate heat transfer by conduction, convection and thermal radiation for practical situations	https://www.amity.edu/iaipur/1_2_2.aspx
BMT521	Heat & Mass Transfer Lab	2021			Calculate heat transfer by conduction, convection and thermal radiation for practical situations	https://www.amity.edu/iaipur/1_2_2.aspx
BMT522	Design of Mechatronics System Lab	2021		This course emphasizes on comprehensive treatment of embedded hardware and real time operating systems		https://www.amity.edu/iaipur/1_2_2.aspx
BMT523	Practical Training (Evaluation)	2021	The students are to learn various industrial, technical and administrative processes followed in the industry.	The students are to learn various industrial, technical and administrative processes followed in the industry.	The students are to learn various industrial, technical and administrative processes followed in the industry.	https://www.amity.edu/iaipur/1_2_2.aspx
BMT505	Advanced Manufacturing Process	2021	This is a new developmental graduate course for students interested in learning various types of manufacturing machines and various operations that can be possible on machine to make a desired shape to the components. It anticipated that this course would become part of the new manufacturing emphasis area in mechanical engineering.	Demonstrate the various types of joining processes and select the appropriate one according to the application	Demonstrate the various types of joining processes and select the appropriate one according to the application	https://www.amity.edu/iaipur/1_2_2.aspx
BMT506	Metal Cutting & Tool Design	2021		The course also covers the common tooling setups and operations as well as specialized applications for the more experienced users.		https://www.amity.edu/iaipur/1_2_2.aspx
BMT507	Management of Manufacturing Systems	2021			On completion of the course the students will be equipped with the state-of-the-art concepts, methods, techniques and tools to allow them to contribute towards the competitiveness of manufacturing organizations.	https://www.amity.edu/iaipur/1_2_2.aspx
BMT508	Embedded System	2021	This course emphasizes on comprehensive treatment of embedded hardware and real time operating systems			https://www.amity.edu/iaipur/1_2_2.aspx
BMT601	Modelling and Control of Mechatronics System	2021		This course emphasizes on comprehensive treatment of embedded hardware and real time operating systems		https://www.amity.edu/iaipur/1_2_2.aspx
BMT602	Electrical Machines	2021	Understand high voltage breakdown phenomena in insulating materials and Know the methods to generate different high voltages ac, dc and impulse.			https://www.amity.edu/iaipur/1_2_2.aspx
BMT603	Sensors and Motion Control	2021		To understand concepts of various electrical and electronic ... motor, Potentiometer error detector, Rate control system, Series control		https://www.amity.edu/iaipur/1_2_2.aspx
BMT604	Automotive Engineering	2021	Develop a strong base for understanding future developments in the automobile industry	Describe how the steering and the suspension systems operate.	Describe how the steering and the suspension systems operate.	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BMT605	Machine Learning and Computer vision	2021			to develop your understanding of the basic principles and techniques of image processing and image understanding, and to develop your skills	https://www.amity.edu/jaipur/1_2_2.aspx
BMT621	Modelling and Control of Mechatronics System Lab	2021		This course emphasizes on comprehensive treatment of embedded hardware and real time operating systems		https://www.amity.edu/jaipur/1_2_2.aspx
BMT622	Electrical Machines Lab	2021	Understand high voltage breakdown phenomena in insulating materials and Know the methods to generate different high voltages ac, dc and impulse.			https://www.amity.edu/jaipur/1_2_2.aspx
BMT623	Sensors and Motion Control Lab	2021		To understand concepts of various electrical and electronic ... motor, Potentiometer error detector, Rate control system, Series control		https://www.amity.edu/jaipur/1_2_2.aspx
BMT624	Automotive Engineering Lab	2021	Develop a strong base for understanding future developments in the automobile industry	Describe how the steering and the suspension systems operate.	Describe how the steering and the suspension systems operate.	https://www.amity.edu/jaipur/1_2_2.aspx
BMT607	Aerial Robots	2021			Students will gain an introduction to the mechanics of flight and the design of quadrotor flying robots and will be able to develop dynamic models, derive controllers, and synthesize planners for operating in three dimensional environments	https://www.amity.edu/jaipur/1_2_2.aspx
BMT608	Industrial Instrumentation	2021	To provide the knowledge of Pressure, Sound, Flow, Temperature, Level, Humidity, Torque, Viscosity and Vibration measurements			https://www.amity.edu/jaipur/1_2_2.aspx
BMT609	Industrial Electronics	2021			The experimental skills developed during the laboratory portion of the prerequisite course together with the theory of this course will enable students to perform basic design and analysis of simple analog and digital electronic circuits and motors	https://www.amity.edu/jaipur/1_2_2.aspx
BMT701	Hydraulics and Pneumatics	2021	The aim of this course is to demonstrate the knowledge in the advantages and applications of Fluid Power Engineering and Power Transmission Systems.			https://www.amity.edu/jaipur/1_2_2.aspx
BMT702	Computer Aided Manufacturing	2021			The aim of the course is to impart the students the basic and essential concepts in using Computer Assisted Manufacturing (CAM) and Computer Numerical Control (CNC) machines. Students will learn the basic concepts of manufacturing planning and control. They will be offered hands on experience in using CAM software to design, simulate and write CNC programs.	https://www.amity.edu/jaipur/1_2_2.aspx
BMT721	Hydraulics and Pneumatics Lab	2021	Design and execution of sequencing of multi cylinder electro pneumatic and electro hydraulic circuits			https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BMT722	Computer Aided Manufacturing Lab	2021		8. Prepare part programs for 2 specified components for CNC lathe by manual part programming. First write the machining technology in full; then prepare part program and then enter in the machine. Test the program in dry run and by tool path graphic simulation. Machine the component.		https://www.amity.edu/iaipur/1_2_2.aspx
BMT723	Industrial Training (Evaluation)	2021	The students are to learn various industrial, technical and administrative processes followed in the industry	The students are to learn various industrial, technical and administrative processes followed in the industry	The students are to learn various industrial, technical and administrative processes followed in the industry	https://www.amity.edu/iaipur/1_2_2.aspx
BMT724	Seminar/Minor Project Stage- I	2021	The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem.	The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem.	The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem.	https://www.amity.edu/iaipur/1_2_2.aspx
BMT705	Automation in Industries	2021			The aim of the course is to impart the students the basic and essential concepts of Automation in industries. Applications of latest technology in improvement plant output. Optimization of various aspects of Manufacturing viz., Design, Proper planning, Manufacturing cost, Layout & Material Handling system	https://www.amity.edu/iaipur/1_2_2.aspx
BMT706	Marketing Management	2021	This course will help you to develop a better appreciation and understanding of the role of marketing in a business organization specifically, and in our society at large	This course will help you to develop a better appreciation and understanding of the role of marketing in a business organization specifically, and in our society at large		https://www.amity.edu/iaipur/1_2_2.aspx
BMT707	Electric and Hybrid Vehicles	2021	2. Design and develop basic schemes of electric vehicles and hybrid electric vehicles.			https://www.amity.edu/iaipur/1_2_2.aspx
BMT708	Mechatronics Systems and Applications	2021		The aim of this course is to understand the principles and alternatives for mechatronics systems design		https://www.amity.edu/iaipur/1_2_2.aspx
BMT801	Robotic Process Automation	2021	The objective of the course is To Develop the processes using RPA & cognitive services of Blue Prims, UiPath, Automation Anywhere, for various automation applications.			https://www.amity.edu/iaipur/1_2_2.aspx
BMT811	Project Stage – II	2021	The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem.	The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem.	The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem.	https://www.amity.edu/iaipur/1_2_2.aspx
BMT805	Fuel Cells and Applications	2021		The aim of this course is to produce electricity cleanly and efficiently from water and heat as the only products by using fuel cell.		https://www.amity.edu/iaipur/1_2_2.aspx
BMT806	Entrepreneurship Development	2021		This course is develop entrepreneurial abilities by providing background information about support systems , skill sets , financial and risk covering institutions and other for building an enterprise so that future budding entrepreneurs can make right decisions for starting and running a venture	The aim of this course is to familiarize the participants with the concept and overview of entrepreneurship with a view to enhance entrepreneurial talent.	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BMT807	Flexible Manufacturing Systems	2021		To have the students gain insight about the state-of-the-art research areas related to FMS and real-time shop floor control and emphasize independent thinking as well as team work and facilitate the appreciation of the academic research;		https://www.amity.edu/jaipur/1_2_2.aspx
BMT808	Fundamentals of Signal Processing	2021	To make students familiar with the most important methods in DSP, including digital filter design, transform-domain processing and importance of Signal Processors		To make students familiar with the most important methods in DSP, including digital filter design, transform-domain processing and importance of Signal Processors	https://www.amity.edu/jaipur/1_2_2.aspx
BMT809	Automotive Sensors and Applications	2021			The aim of this course is to understand the basic automotive parts and the requirement of sensors and their integration in different automotive systems	https://www.amity.edu/jaipur/1_2_2.aspx
BCI103	Introduction to Computer Networking	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BCI105	Computer Concepts and Problem Solving	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BCI125	Computer Concepts and Problem Solving Lab	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BCI431	Introduction to .NET Technologies	2018	This section will include popular resources for each employability skill that teachers like you utilise on a regular basis. This Introduction to .NET Programming training course provides participants with hands-on experience programming software for Microsoft's .NET (Windows platform) using the Visual Studio development environment. Beginning with the most fundamental components of computer programming, the training advances to the usage of development methodologies capable of building a comprehensive web application, including the user interface, business logic, and data access layers. You will learn how to write code in Visual Basic (VB) and C#, as well as how to create ASP.NET Web apps and process Web forms, as well as how to build SQL Server databases and access them using ADO.NET. Participants can pick between C# (C Sharp) and VB (Visual Basic).			https://www.amity.edu/jaipur/1_2_2.aspx
BCA435	Big Data Analytics	2018	The course deliver and Provide hands-on experience with the Hodoop Eco System. Analyze Structured and Unstructured Data. Experiment with Data Analytics Using R		Learn about the Big Data platform and its applications. Give a brief overview of Apache Hadoop. Provide HDFS concepts and HDFS Interfacing the course deliver the Map and cut Jobs	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BCI441	Introduction to .NET Technologies Lab	2018	This Introduction to .NET Programming training course gives participants hands-on experience developing software for Microsoft's .NET (Windows platform) using the Visual Studio development environment. Beginning with the most fundamental components of computer programming, the training progresses to use development approaches capable of producing a comprehensive web application, including the user interface, business logic, and data access layers. You will learn how to write code in Visual Basic (VB) and C#, as well as how to create ASP.NET Web apps and process Web forms, as well as how to build SQL Server databases and access them using ADO.NET. Participants can choose between C# (C Sharp) and VB (Visual Basic) — the Microsoft .NET core languages. Design, code generation, testing, and debugging techniques are covered, as well as the use of ASP.NET (Active Server Pages) and the SQL Server.			https://www.amity.edu/jaipur/1_2_2.aspx
BCA445	Big Data Analytics Lab	2018	Use self-logic to build independently relevant applications in the era of cloud computing. These tactics include cloud deployment, security concerns, and so on resources out there that cover topics on our list of employability skills			https://www.amity.edu/jaipur/1_2_2.aspx
BCI533	Android Programming	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BCI543	Android Programming Lab	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BCA602	Introduction to Python Technologies	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BCA622	Introduction to Python Technologies Lab	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BSI101	Human Computer Interaction	2018			The course deliver the fundamentals of human-computer interaction. Create effective user interfaces for end users. Create a prototype of the human-computer interface design. Analyze the prototype model of human-computer interaction.	https://www.amity.edu/jaipur/1_2_2.aspx
BCI201	Fundamental of E-Commerce	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BSI301	Digital & Computer Organization	2018	This course offers the Formulate and employ a Karnaugh Map to reduce Boolean expressions and logic circuits to their simplest forms		Investigate, analyse, and synthesise combinational logic circuits, as well as the specification of essential computer components. Examine how short assembly language programmes work.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BSI302	Introduction to Information systems	2018	Respects individual differences approaches which help in The course delivering information system concepts in project or application development. Demonstrate awareness of information paradigm in terms of The course delivering the concept of information system as a whole.		Identify different information concepts and approaches in information system. Analyse and critically evaluate various information concepts which will help in delivering of different information systems.	https://www.amity.edu/iaipur/1_2_2.aspx
BSI334	E- Governance	2018			Recognize the concept of e-governance. Describe the many E-Government Models.	https://www.amity.edu/iaipur/1_2_2.aspx
BCI503	UNIX Operating System & shell Programming	2018	Implement different types of shell scripting programming.		Recognize the UNIX file system and its benefits.and Explain the fundamental UNIX commands and shell programming. For privilege distribution, use and compare UNIX administration commands.	https://www.amity.edu/iaipur/1_2_2.aspx
BCI523	UNIX Operating System & shell Programming Lab	2018			Recognize the UNIX file system and its benefits. Explain the fundamental UNIX commands and shell programming.For privilege distribution, use and compare UNIX administration commands. Use several sorts of shell scripting programming.	https://www.amity.edu/iaipur/1_2_2.aspx
BSI601	E-Waste Management	2018			Learn about the environmental, social, and health consequences of improper e-waste recycling. How the life cycles of electrical products can have a harmful or beneficial impact on climate change. a number of stakeholders.	https://www.amity.edu/iaipur/1_2_2.aspx
BSI602	Green Computing	2018			The course deliver and identify the types of valuable materials that can be recycled from various e-waste items. Give examples of environmentally sound recycling good practice.	https://www.amity.edu/iaipur/1_2_2.aspx
BTB703	Enterpreneurship development	2020		Concepts of Formal and informal organization		https://www.amity.edu/iaipur/1_2_2.aspx
BTF703	Entrepreneurship Development	2020		Concepts of Formal and informal organization		https://www.amity.edu/iaipur/1_2_2.aspx
BTF534	Scientific writing	2020			Computing skills for scientific research	https://www.amity.edu/iaipur/1_2_2.aspx
BSB503	Bio- entrepreneurship	2020		The course is intend to increase the analytical and business acumen of the students. The course enables exposure to the need, scope and types of entrepreneurship management of self and understanding human behaviour		https://www.amity.edu/iaipur/1_2_2.aspx
BSB130	Biochemical Basis of Disease	2020			The students get to knowexplanations for the causes of many diseases in humans, animals, and plants. It can frequently suggest ways by which such diseases may be treated or cured. The flexibility of the field applied allows the students to work in industry or continue in education and research in a specific area	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
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BSB405	Biomaterials and biomimetics	2020			The students become adept in understanding the pivotal role of scaffolds to provide three-dimensional templates and synthetic extracellular-matrix environments using nanomaterials.	https://www.amity.edu/jaipur/1_2_2.aspx
BSB404	Scientific writing	2020	The course instills students analyze and clarify their thinking, synthesize their ideas, and communicate them with others			https://www.amity.edu/jaipur/1_2_2.aspx
MTB231	Entrepreneurship development in Biotechnology	2020		The course encourages students for the entrepreneurial planning to set up their start ups in the field of biotechnology and pharmaceuticals.		https://www.amity.edu/jaipur/1_2_2.aspx
MSB231	Entrepreneurship development in Biotechnology	2021		The course encourages students for the entrepreneurial planning to set up their start ups in the field of biotechnology and pharmaceuticals.		https://www.amity.edu/jaipur/1_2_2.aspx
MSD101	Advance Fermentation Technology	2019	Knowing about Basic principle in bioprocess technology. Major agro-industrial waste products used for fermentation, Media formulation sterilization, thermal death kinetics, batch and continuous sterilization system. Modern strain improvement techniques, Sterilization of Industrial Media, Air and Fermenter.			https://www.amity.edu/jaipur/1_2_2.aspx
MSD102	Advance Food Chemistry and Nutrition	2019	Understanding of working principles of analytical instruments such as HPLC, GLC can increase the employability because such trained personnel are required in industry. The course is intended to increase the employability of the students by imparting the knowledge in terms of production, ingredients selection, different unit operations, quality standards and packaging in the area of food industry			https://www.amity.edu/jaipur/1_2_2.aspx
MSD103	Instrumental Methods of Food Analysis	2019	Understanding the details about Carbohydrates, proteins and lipids: classification, nomenclature, physical, chemical and functional properties and their structural correlations; Major types of starch, Process of starch gelatinization, Process of staling, Modified starches and other polysaccharides used in foods.			https://www.amity.edu/jaipur/1_2_2.aspx
MSD104	Advance Food Processing and Preservation Technology	2019		Understanding novel techniques like Membrane Technology: Introduction to pressure activated membrane processes, performance of RO/UF and NF and industrial application, Supercritical Fluid Extraction, Use of Microwave Energy in Foods, Hurdle Technology which would help in developing new business ideas.		https://www.amity.edu/jaipur/1_2_2.aspx
MSD121	Advance Fermentation Technology Lab	2019	1. Determination of protein in given food sample using UV spectrophotometer. 2. Preparation of culture media for cultivation of specific microorganism, 10. Resumptive and confirmed coli form test, 11. BOD and COD			https://www.amity.edu/jaipur/1_2_2.aspx

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MSD122	Advance Food Chemistry and Nutrition Lab	2019	Acknowledging the principles and processes of 1.Determination of moisture and ash content,2.Determination of protein and fat content,rancidity of oil,minerals (Ca, P, Fe),reducing and total sugars,etc			https://www.amity.edu/jaipur/1_2_2.aspx
MSD123	Instrumental Methods of Food Analysis Lab	2019	Acknowledging the principles and processes Determination of protein in given food sample,2.Detection of food adulteration in food sample using nanotechnology ,7.Demonstration of HPLC and GLC,etc			https://www.amity.edu/jaipur/1_2_2.aspx
MSD130	Cold Chain Management	2019		Become familiar with current cold chain management trends and apply the current supply chain theories, practices and concepts utilizing case problems and problem-based learning situations. Knowledge of cold chain may provide opportunity in setting up such facility.		https://www.amity.edu/jaipur/1_2_2.aspx
MSD131	IPR & Food regulatory affairs	2019		Learning about Regulatory affairs and its importance. General Principles of Intellectual Property: Copyright, Trademark, Inventions-Patentable, Geographical Indications, Industrial Designs, Integrated Circuits, Trade Secrets. Patents: need of patents, major types of patents, international registration		https://www.amity.edu/jaipur/1_2_2.aspx
MSD132	Industrial Safety & Hazards	2019	knowig basics about Chemical hazards classification. Radiation hazards and control of exposure to radiation. Types of fire and fire prevention methods. Mechanical hazards. Electrical hazards,Management: Safety organization – safety committee – safety education and training. Management process. Philosophy and need for Industrial safety. Role of Government in Industrial safety.			https://www.amity.edu/jaipur/1_2_2.aspx
MSD201	Meat, Fish and Poultry processing CC Technology	2019		Refrigeration, freezing, canning and freeze drying of meat; curing and smoking of meat, changes during cooking of meat; prepared meat products like salami, kebabs, sausages, sliced, minced, corned; intermediate moisture and dried meat products; meat plant hygiene – GMP and HACCP; Packaging of meat products.,Scientific slaughter; Preparation of poultry products and their preservation.,Whole egg powder, Egg yolk products, their manufacture, packaging and storage.		https://www.amity.edu/jaipur/1_2_2.aspx

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MSD202	Advance Cereal Processing	2019	Understanding Chemical composition of wheat grain and its relation to processing quality. Molecular basis of wheat grain hardness/softness. Wheat milling – general principle, cleaning, conditioning and milling systems. Flour streams and extraction rates. Criteria of flour quality. Functionality of wheat proteins, carbohydrates and lipids in bakery products.,Rice grain structure and chemical composition. Milling of rice: Modern rice milling unit operations – dehusking, paddy separation, polishing and grading. Factors affecting rice yield during milling. By- products of rice milling and their utilization,Chemical, technological and nutritional aspects of sorghum, oats and millets. Coarse grain based processed foods. Wet and dry milling of corn. Corn products and their uses. Malting of barley steeping, germination and drying			https://www.amity.edu/jaipur/1_2_2.aspx
MSD203	Functional Foods and CC Nutraceuticals	2019		understanding Effect of processing, storage and interaction of various environmental factors on the potentials of such foods. Formulation of functional foods containing nutraceuticals – stability and analytical issues, labelling issues,Marketing and regulatory issues for nutraceutical & functional		https://www.amity.edu/jaipur/1_2_2.aspx
MSD204	Advance Biostatistics for Food CC Technologists	2019		Measures of Central Tendency (Mean, Median, Mode), Measures of dispersion (Range, Mean Deviation, Standard Deviation, Quartile Deviation), combined mean and variance, covariance, Graphs (Bar Chart, Pie Chart, Box Plot, Histogram, Ogive, scatter plot,Probability (Addition and Multiplication Theorem), Binomial, Poisson and Normal distribution. Correlation and linear regression. Measures of Central tendency; Dispersion, Swekness and Kurtosis; Binomial and Normal Distributions		https://www.amity.edu/jaipur/1_2_2.aspx
MSD205	Advance Food Engineering	2019		Heat Transfer- Systems for Heating and Cooling, Plate Heat Exchanger, Tubular Heat Exchanger, Scraped-surface Heat Exchanger, Scraped-surface Heat Exchanger, Epilogue. Thermal Properties of FoodTypes of Evaporators- Batch-Type Pan Evaporator, Natural Circulation Evaporators, Rising-Film Evaporator, Falling-Film Evaporator, Rising/Falling-Film Evaporator, Forced-Circulation Evaporator, Agitated Thin-Film Evaporator. Vapor Recompression Systems- Thermal Recompression, Mechanical Vapor Recompression.		https://www.amity.edu/jaipur/1_2_2.aspx

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MSD221	Meat, Fish and Poultry processing CC Technology Lab	2019	Understand the basic concept meat processing and explain role of livestock in Indian food industry Explain the different techniques used in processing of meat products Have knowledge of different analytical techniques used in food industry and laboratories for analytical purpose.			https://www.amity.edu/jaipur/1_2_2.aspx
MSD222	Advance Cereal Processing Lab	2019	Understand the basic composition and structural parts of food grains. Aware the importance of physico-chemical properties of food grains. Understand the basics of milling operations for food grains Identify the problems associated with milling of grains and their solution. Know processing food grains into value added products.			https://www.amity.edu/jaipur/1_2_2.aspx
MSD230	Advance Flavor Chemistry and Technology	2019	Understand the basics about essential oils, condiments, and spices. Importance flavouring compounds in food industry. Understand the basics of isolation and extraction of flavouring compounds. Identify the legal consideration associated flavouring compounds. Introduction: Status and scope of spice and flavour processing industries in India; Spices, Herbs and seasonings: sources, production, selection criteria; flavours: commercially available materials, classification on the basis of origin, physical characteristic. Basics of flavour, smell, and taste sensation. Principal types of flavorings used in foods, natural flavoring substances, Flavour constituents from Onion, garlic, cheese, milk, meat, vegetables, fruits, Flavour constituents of wine, coffee, tea, chocolate, spices and condiments. Nature-identical flavoring substances. Artificial flavoring substances. adulteration, Flavour emulsions, Flavours production in fermented foods, Off-flavours in foods. Flavour chemical components (buttery: Diacetyl, Acetylpropionyl, Acetoin, Banana: Isoamyl acetate, Bitter almond, Cherry: Benzaldehyde, cinnamon: Cinnamaldehyde, fruity: Ethyl propionate, etc.). Food acids their tastes and flavours (Glutamic acid salts, Citric acid salts, Succinic acid salts, acetic acid, malic			https://www.amity.edu/jaipur/1_2_2.aspx

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MSD231	Food Rheology and texture	2019	<p>understanding the theoretical and practical knowledge on rheology, colorimetry, calorimetry and food microstructure in order to supply the capability for right control procedures, during formulation, processing and preservation of liquid and solid foods.</p> <p>acquisition and application of food science and technology knowledge on the food's physical and structural properties</p> <p>Understanding The role of rheology in food quality control and new product development, Rheological properties of fluid and semi-solid food: classification, factors affecting viscosity, flow of material- Newton's law of viscosity, viscous fluids (Newtonian fluids, non-Newtonian fluids), plastic fluids (Bingham plastic, non-Bingham plastic fluids), thixotropic behaviour, fluid behavior in steady- shear flow: time dependent and time independent material function, viscosity measurement- capillary flow viscometers, orifice type viscometers, falling ball viscometers, rotational viscometers- concentric cylinder (coaxial rotational) viscometers, cone and plate viscometers, parallel plate viscometers, single-spindle viscometers (brookfield viscometer).</p>			https://www.amity.edu/jaipur/1_2_2.aspx
MSD232	Advance Nanotechnology and its Applications in Food Industry	2019				https://www.amity.edu/jaipur/1_2_2.aspx
MSD301	Processing of Foods of Plant Origin	2019	<p>Acknowledging the Role and Status of Post-Harvest Technology, Fruits and vegetables as living products: Chemical composition; pre and post-harvest changes, maturity standards for storage, desirable characteristics of fruits and vegetable of processing, Preparation of juice, syrups, squashes, cordials, and nectars; concentrations and drying of juice, packaging and storage and Concentrations and powders; fortified and soft drinks. Preservation by freezing, Understand various facts Food additives</p>			https://www.amity.edu/jaipur/1_2_2.aspx
MSD302	Novel Food Packaging Technology	2019	<p>Understand various facts Food additives, Role of packaging in the food chain, active and intelligent packaging techniques, current use of novel packaging technique, Antimicrobial food packaging and factors affecting effectiveness of antimicrobial packaging, Non-migratory bioactive polymers (NMBP), Modified atmosphere packaging (MAP), Novel MAP applications for fresh prepared produce, effect of MAP on nutritional quality and microbial safety of MAP</p>			https://www.amity.edu/jaipur/1_2_2.aspx

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MSD303	Food Safety and Quality Management	2019	Understanding Food safety and quality parameter and management Introduction to Food Safety Act - 2006 and Food safety and Standards Authority of India, Food safety standards regulations 2011, Food Surveillance, Food Recall, PFA, FPO, MMPO, MPO, BIS, AGMARK standard, : Concept of food safety and quality, Food adulteration and contamination, Responsibility of food safety			https://www.amity.edu/jaipur/1_2_2.aspx
MSD304	Advance Dairy Technology	2019	learning about treatments of milk such heating, homogenization, centrifugation, agitation filtration, concentration, and fermentation, manufacture different dairy products such as cream, butter, ghee, yoghurt, cultured milk, ice cream and cheese using simple and industrial techniques, Physicochemical properties of milk. Pasteurization, sterilization, homogenization and UHT processing of milk. Cleaning & sanitization of dairy equipment, Special milks such as flavoured, sterilized, recombined & reconstituted toned & double toned.			https://www.amity.edu/jaipur/1_2_2.aspx
MSD305	Industrial training report	2019		To gain practical knowledge of industrial protocols and processes, suitable Industrial Training, submit an application form through the Officer (Training/ Training and placement) to the organization concerned one semester before the Industrial Training Programme commences., ensure that the Industrial Training is not performed in a family-owned company so as to avoid conflict of interest.		https://www.amity.edu/jaipur/1_2_2.aspx
MSD321	Processing of Foods of Plant Origin Lab	2019	Get knowledge about post- harvest handling operations., Canning of fruits and cut-out test for canned fruits, vegetables and cut-out test for canned vegetables, fruits / vegetables and evaluation of frozen products, 5. Preparation of jam / jelly / marmalade , beverage and its evaluation, evaluation of tomato sauce / ketchup Testing of vinegar, cheese, candy and preserve Visit to food processing industry			https://www.amity.edu/jaipur/1_2_2.aspx
MSD322	Novel Food Packaging Lab	2019	understanding various physical and chemical properties of packaging materials Communicate clearly about different type of packaging material and their functions, Appreciate the contributions of packaging material in increasing the shelf life of food products, Identification of different type of packaging material and testing of properties of different packaging materials (paper, plastic, biodegradable, glass and metal), Determination of changes in packaged foods, Comparative evaluation of different packages for foods Estimation of shelf life of food under different packaging materials.			https://www.amity.edu/jaipur/1_2_2.aspx

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MSD333	Advance Dairy Technology Lab	2019				https://www.amity.edu/iaipur/1_2_2.aspx
MSD330	Food Business Management	2019		Identifying and applying the principles of food plant operation and management Manage operations and resources in a food processing plant, Introduction to marketing and management. Marketing concepts and marketing systems and its functions. Link between agriculture and food industry, Introduction to marketing boards, co-operatives and others. Market liberalization, its role, strategies, impact and economics., Marketing management, strategies, planning and control: Introduction to strategy, policy, planning and control. Marketing planning process, monitoring and evaluation. International Marketing and International Trade; Composition & direction of Indian exports; International marketing environment; Exports- Direct exports, indirect exports, Licensing, Joint Ventures, Direct investment & internationalization process; Deciding marketing Programme; Product, Promotion, Price, Distribution Channels; Deciding the Market Organization; World Trade Organization (WTO).		https://www.amity.edu/iaipur/1_2_2.aspx
MSD331	Food Toxicology	2019	Regarding the most important contaminants in food, toxicology of various food additives and contaminants and their sources. Explain what food safety involves and which contaminants are of relevance. Explain risk analysis, assessment and management related to food safety and which organizations are involved in these processes nationally and internationally. Toxicants found in the foods with their adverse effects, mode of action and clinical symptoms: Bacterial toxins; animal and plant toxins; toxicity of nutrients; toxins from fungi adverse effects; mode of action and clinical symptoms; food borne viruses and factors that increase the risks of food borne infections; sea food toxins and poisoning			https://www.amity.edu/iaipur/1_2_2.aspx
MSD332	Process Equipment Design and DE Plant Layouts	2020	Acquaintance with knowledge on processing of milk in variety of milk products and to understand the chemistry of milk and milk products. Knowledge about the preservation of milk through high temperature treatment. Hands on proximate analysis of milk and milk products.			https://www.amity.edu/iaipur/1_2_2.aspx
MSD460	Major Project	2019			Practical exposure to experience the application of theoretical knowledge in problem solving	https://www.amity.edu/iaipur/1_2_2.aspx

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BSS222	Behavioural Science	2019				https://www.amity.edu/jaipur/1_2_2.aspx
MMC213	Bio- entrepreneurship	2021				https://www.amity.edu/jaipur/1_2_2.aspx
MCP101	History & Schools of Psychology	2018			To develop the skills to understand the Subject Matter of Psychology, Methods of Studying Human Behaviour	https://www.amity.edu/jaipur/1_2_2.aspx
MCP102	Personality Theories	2018		Reasoning: Inductive & deductive reasoning, patterns and approaches, conditional reasoning, syllogisms. Decision making: Basic concepts, models and theories, algorithms, heuristics for developing own set up.	Understanding skills to articulate the underlined themes, methodology and assumption of each theory to enhance understanding of personality and behaviour.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP103	Research Methodology	2018	Applications of psychological testing in various settings helps in getting employability as data analyst.	Selection of statistical methods, Interpretation of the data. Writing a Research Report helps in creating own R&D setup.	Learn the statistical rigors in designing research and processing data. Apply basic framework of research process, research designs and techniques	https://www.amity.edu/jaipur/1_2_2.aspx
MCP104	Psychological Measurement and Statistics	2018	understand the concepts and principles of psychological testing and evaluation and the use of standardized instruments to examine how assessment has influenced our lives and how clinical assessment can significantly affect the clients with whom we work.		To develop the skills to understand the Steps to develop psychological test, Ethical consideration. Item analysis: item difficulty, item discrimination, item response theory.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP120	Practicum - I	2018				https://www.amity.edu/jaipur/1_2_2.aspx
BSS111	Behavioural Science - I (Self - Development and Interpersonal Skills)	2018			Develop your understanding of who you are; what your core purpose is, what your values are and what limits your success Manage your emotions and feelings more effectively to have the impact that you need Develop the way that you regulate and control your emotions Learn about your behavioral preferences to become more self-awareness	https://www.amity.edu/jaipur/1_2_2.aspx
MCP105	Cognitive Psychology	2018			To learn the skills to assess language and cognition. Thinking: Convergent & divergent thinking, creative and critical thinking. Problem solving: methods of solution, hindrances.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP106	Neurological Basis of Behaviour	2018	insight on psycho physiological correlates accounting for general phenomena, individual differences, and abnormal functions of human behaviour help in employment in Hospitals.	Nature and Scope of biopsychology. Methods of studying the brain: Ablation, Recording and Stimulation methods, Neurochemical methods. Brain and Spinal Cord: Structure and functions. Divisions -Central and Peripheral Nervous System help in building own set up with the help of hospitals.		https://www.amity.edu/jaipur/1_2_2.aspx

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MCP130	Term Paper	2018	Develop research orientations to understand and enhance skills in Research Methodology. Gain competency in presentation skills which will further enhance their confidence for employability.		Enhance the reading and writing skills and understand about the process of carrying out a research work	https://www.amity.edu/iaipur/1_2_2.aspx
MCP145	Seminar	2018			learn the skills to Write a journal length manuscript of qualitative research, appropriate for submission to a professional journal in psychology or a related discipline.	https://www.amity.edu/iaipur/1_2_2.aspx
MCP201	Advanced Social Psychology (CC) / Social Psychological Perspectives (OE)	2018	Learn the use of research methodologies in social psychology. Explore the use of psychosocial perspectives in addressing the issues and problems. Help in employment as social psychologist.		Understand the skills to assess Social facilitation; social loafing; conformity, compliance, obedience; social power; reactance; cultural context of getting influenced or resisting influence. Social perception; Attitude; Aggression; Prosocial behaviour	https://www.amity.edu/iaipur/1_2_2.aspx
MCP202	Psychometrics	2018	Familiarization with software packages of statistics and their application helps in employability as data analyst		Understand the skills of psychological assessment and psychometrics, historical background, core characteristics of assessment. Classification of psychological tests. Steps to develop psychological tests, Ethical consideration. Applications of psychological tools	https://www.amity.edu/iaipur/1_2_2.aspx
MCP203	Human Development in Social Context	2018	To understand the dynamics of development in the early and middle childhood, adolescence, adulthood and old age. To contextualize the developmental concerns in the social context of contemporary India helps in employment as child psychologist.			https://www.amity.edu/iaipur/1_2_2.aspx
MCP204	Indian Approaches to Psychology	2018			To understand the skills of Saṅkara's Views of Cognition and Knowledge, Bharata on Emotions and Aesthetic Moods, Implications of the Concept of Rasa, Rasa in the Context of Modern Psychology, Karma Yoga as Means to Liberation	https://www.amity.edu/iaipur/1_2_2.aspx
MCP220	Practicum- II	2018			To give practical experience to the students in administering and scoring psychological tests and interpreting the scores, To acquaint the students with the basic procedure and design of psychology experiments, To familiarize the students with the use of elementary statistical techniques	https://www.amity.edu/iaipur/1_2_2.aspx
BSS211	Behavioural Science - II (Behavioural Communication and Relationship Management)	2018			Recognize the connection between critical thinking and other mental processes and Determine the obstacles to problem-solving methods and Analyze the steps involved in the problem-solving process. Make a plan of action using your creative ideas.	https://www.amity.edu/iaipur/1_2_2.aspx
MCP207	Life Skills	2018	understand core life skills, its concept, process and practice and how they facilitated the counseling process if they are mastered.		Helps in development of Application, WHO & UNICEF Model of Life Skills in Counseling, Self awareness & empathy skills, Relevance, development and use in counseling.	https://www.amity.edu/iaipur/1_2_2.aspx

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MCP205	Experimental Design in Behavioural Research	2018	Factorial experiment: two factors; Factors, assumptions, homogeneity of variance, Repeated experiment; Factorial experiment: three factors; complete factorial experiment Repeated measures on one factor; two factors and three factors helps in getting employment as researcher.	Blocking, Randomized Complete Block Design (single subject each cell), Randomized Complete Block Design (n subject each cell help in establishing own set of data analytics.	Learning skills to conduct Analysis of variance and t-test, Concept of variance and underlying assumptions, One-way analysis variance, Two-way analysis of variance	https://www.amity.edu/jaipur/1_2_2.aspx
MCP206	Advanced Counseling Skills	2018	Confidentiality & Professional Ethics Counselor licensing, Ethical codes & Ground rules, helps in becoming a counsellor.		Understand Basic Counseling skills, Helping and Healing side of counseling, Desirable qualities of a counselor, Counseling Process: Initiating, Establishing Structure & Termination	https://www.amity.edu/jaipur/1_2_2.aspx
MCP240	Review Article	2018		Develop an understanding of currently published research literature with the aim of reporting the theoretical work in the field of interest. Describe research insights, existing gaps, future research directions and learn to write review based research articles helps in own set up of R&D.		https://www.amity.edu/jaipur/1_2_2.aspx
MCP350	Summer Internship Evaluation	2018		Acquire practicing competencies developed throughout the internship. Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in a specific organization setting (hospitals, NGO, schools, corporate etc.) to open their own set up.		https://www.amity.edu/jaipur/1_2_2.aspx
MCP320	Practicum- III	2018			To give practical experience to the students in administering and scoring psychological tests and interpreting the scores. To acquaint the students with the basic procedure and design of psychology experiments	https://www.amity.edu/jaipur/1_2_2.aspx
BSS311	Behavioural Science - III (Leading Through Teams)	2018	Through this course Behavioural image and social representation skills being improved		Through this course Behavioural image and social representation skills being improved	https://www.amity.edu/jaipur/1_2_2.aspx
MCP309	Community Psychology	2018	Community based programs and current applied issues in community psychology are covered. It would help them get a community-based jobs towards mental health.	Community based rehabilitation (CBR): Issues, principles, help in opening own Community based rehabilitation center.		https://www.amity.edu/jaipur/1_2_2.aspx
MCP310	Behavioural Problems of Children & Adolescents	2018	Physical abuse, Emotional abuse and neglect Sexual abuse, Substance abuse and their Intervention as a child counsellor.	Assessment of LD, Issues in adulthood, Services - National and International scenario to open own disability center.		https://www.amity.edu/jaipur/1_2_2.aspx
MCP375	Guided Counseling	2018	Identify the psychological problem of the clients, Find out the causes behind the psychological problems, Learn to carry out some counseling sessions of the client will help in becoming a counsellor.			https://www.amity.edu/jaipur/1_2_2.aspx

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MCP365	Scientific Research Paper	2018		Develop research orientations to understand and enhance skills in Research Methodology. Gain competency in presentation skills which will further enhance their confidence. Understand the scientific ways of data collection, statistical analysis, Formulation and interpretation of data help open own R&D Center.		https://www.amity.edu/jaipur/1_2_2.aspx
MCP301	Introduction to Clinical Psychology	2018	Clinical interviewing, Areas of applications: Intellectual and educational; personality and interpersonal; behavioural and psycho-diagnostic help in becoming clinical psychologist.			https://www.amity.edu/jaipur/1_2_2.aspx
MCP302	Psychopathology	2018			Learn the skills to assess Psychopathology and systems of classification, Basic features of DSM-V & ICD-10: Similarities, differences and critical evaluation, Major theoretical models of psychopathology.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP303	Psychotherapy	2018	Client-centred therapies, Existential therapies, Gestalt therapies, Transpersonal therapies help in becoming Therapist.		Learn the skills to implement Stages of therapy, Modes of therapy: Individual, group, couples & family, Psychotherapy research.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP304	Clinical Psychology: Positive Psychology Approach	2018	Ageing; Health; Work; Mental Health and Behavior; Stress Management; Communities ME/WE balance helps to become a counsellor		Learning the skills of Using elements of positivity in counseling: Principles of pleasure; Positive emotions, emotional states and positive health; emotional intelligence; optimism and hope; self efficacy; wisdom and courage; faith; flow and spirituality.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP305	Methods and Approaches in Counseling	2018	Group counseling, Peer counseling, co-counseling, Other counseling approaches and methods, Modern developments in counseling to get a job as counsellor	To give the student the experience of undergoing as well as performing counseling using different methods to open own counselling clinic.	To have a comprehensive understanding of the different methods and approaches to counseling	https://www.amity.edu/jaipur/1_2_2.aspx
MCP306	Assessment and Research in Counseling	2018	Psychological testing, Well known psychological tests, Tests and testing in India used for counseling to get a job as counsellor	Quantitative data and analysis, Types of qualitative data and techniques for analysis, Computerisation, writing research reports, papers, books to open own counselling set up	broad acquaintance with psychological measurement and assessment, psychological tests, testing in India and methods of test development	https://www.amity.edu/jaipur/1_2_2.aspx
MCP307	Areas and Related Disciplines of Counseling	2018	Counseling for personal and adjustment problems, Educational counseling, Vocational guidance and career counseling to get a job as counsellor	Rehabilitation counseling, Crisis and trauma counseling, Counseling and substance abuse, Psychiatric counseling to open own counselling set up		https://www.amity.edu/jaipur/1_2_2.aspx
MCP308	Counseling for Diverse & Vulnerable Population	2018	Counseling intervention for women population and minority population increases employability chances as counsellor.	Identification of risk factors, Psychological effects on life, Counseling intervention helps to open own counselling set up	understand the counseling needs of diverse and vulnerable population and application of counseling skills and theories to such cases.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP481	Conduction of Supervised Workshops	2018			Effectively conceptualize the client's concerns, demonstrate and apply psychologist's skills in clinical set up and write a report.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
MCP482	Internship in Clinical setting	2018	Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in clinical set up and prepare patient logbook helps to become clinical Psychologist.			https://www.amity.edu/jaipur/1_2_2.aspx
MCP483	Internship in NGO/ rehabilitation center	2018		Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in NGO/Rehabilitation center set up and prepare client logbook helps to open own NGO or rehabilitation center.		https://www.amity.edu/jaipur/1_2_2.aspx
MCP455	Dissertation	2018	Gathering primary data, to write a report covering a review of relevant literature, the research question, and explanation and justification of the design, a description of the conduct and analysis of the data, and a discussion of the findings therein helps in employment in research in psychology			https://www.amity.edu/jaipur/1_2_2.aspx
MCP484	Conduction of Supervised Workshops	2018			Effectively conceptualize the client's concerns, demonstrate and apply psychologist's skills in clinical set up and write a report.	https://www.amity.edu/jaipur/1_2_2.aspx
MCP485	Internship in Community setting	2018	Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in community counseling set up and prepare client logbook helps to become counselling/community Psychologist.			https://www.amity.edu/jaipur/1_2_2.aspx
MCP486	Internship in NGO/ rehabilitation center	2018		Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in NGO/Rehabilitation center set up and prepare client logbook helps to open own NGO or rehabilitation center.		https://www.amity.edu/jaipur/1_2_2.aspx
PSY105	System & Approaches	2019			To understand the skill of the applications of Continuity theory	https://www.amity.edu/jaipur/1_2_2.aspx
PSY106	Psychology of Ageing	2019	Welfare Policy and shelter homes for Elderly. Identifying Excellence in Care of Elderly. Ethical Theories & Principles. Constitutional Rights, Public Policy & Services give employability.		To understand the skill of Assessment, Diagnosis & Planning of elderly care. Major issues and its care- Physical and Psychological.	https://www.amity.edu/jaipur/1_2_2.aspx
PSY202	Basic Cognitive Processes	2019	Improving Decision Making: Meaning, Types and Hindrances, Language: Definition, Elements of Language, Development, Acquisition, Influence of Culture to help in employability		To understand the skill of applying Theories of Learning – Trial and Error Theory, Classical Conditioning Theory, Operant / Instrumental Conditioning, Insight Learning Theory, Transfer of Training to subjects	https://www.amity.edu/jaipur/1_2_2.aspx
PSY305	Science of Happiness	2019			Skills to apply the concepts with a holistic view to deal with the barriers in day-to-day life.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
PSY306	Community Psychology	2019	To gain community mental health services related employment			https://www.amity.edu/iaipur/1_2_2.aspx
PSY401	Educational Psychology	2019		Assessment of personality by subjective, objective and projective techniques and Role of teacher in fostering individual's personality will help gain entrepreneurship.	To understand the skill of knowledge of experimental, social and child psychology and theories related to learning, motivation and transfer of learning to educational setup.	https://www.amity.edu/iaipur/1_2_2.aspx
PSY405	Defence Psychology	2019			develop a skill of empowerment for individual to promote peace related values and disseminate perspectives to build culture of peace and harmony in community life.	https://www.amity.edu/iaipur/1_2_2.aspx
PSY406	School Counseling	2019	understanding of counseling within school setup, which is collaborative work of counselor and other school staff will help in gaining employment.		To understand the skill of Need and importance of guidance and counseling in school	https://www.amity.edu/iaipur/1_2_2.aspx
PSY502	Forensic Psychology	2018	students understand the legal aspects of forensic psychology, the significance of criminal profiling to become forensic psychologist		developing skills to Understand the criminal personality- antisocial personality, psychopath & sociopath; Personality Profiling	https://www.amity.edu/iaipur/1_2_2.aspx
PSY506	Crime and Delinquency	2019	Psychological assessment and its importance in crime increases employment opportunities as forensic psychologist		To develop the skills to Understanding modus operandi. Investigative strategy. Role of media	https://www.amity.edu/iaipur/1_2_2.aspx
PSY603	Human Resource Management	2019	knowledge of Selection process and methods, Job analysis Biographical information; interviews; Psychological testing; helps in employment.	The Built Environment: Architectural Factors and Social behaviour in Housing, Human responses to protect the environment will help in career in environmental psychology	Help in having Own set up for conducting training programme, Training needs analysis and training methods to build a foundation for assisting organizations in resolving human resource problems.	https://www.amity.edu/iaipur/1_2_2.aspx
HCP101	Psychosocial foundations of Behaviour	2020	In Psychosocial foundations of behaviour, the understanding of Disability, Rehabilitation, and the understanding of psychosocial factors will help the trainees to use to get employability and opportunities to work with individuals with mental illnesses, disability, and for rehabilitation.		The Psychosocial foundation of behaviour attempts to understand human cognition, motives, perceptions, and behaviour as well as their aberrations as product of an interaction amongst societal, cultural, familial and religious factors. The trainees will acquire skills in conceptualizing the mental health problems within the psychosocial framework their clinical understanding.	https://www.amity.edu/iaipur/1_2_2.aspx
HCP102	Statistics & Research Methodology	2020	The statistics and research methodology course will help students to learn about statistical tools for their research and to develop their understanding of the conceptual bases of these tools. This will enhance their research understanding and experiences and they can be employed in various mental health and social sciences research projects in Hospital/non-hospital settings.	The statistics and research methodology course will aid the understanding of data analysis, test construction, and research methodology. This will facilitate the possibility of entrepreneurship among the students.	The statistics and research methodology course will facilitate students to acquire all necessary skills for conducting research in social and behavioral sciences.	https://www.amity.edu/iaipur/1_2_2.aspx
HCP103	Psychiatry	2020	The Psychiatry course will help the students to understand the diagnosis, etiology of the disorders, and the intervention. The range of mental health problems, work-ups, and the management to get the employability in the psychiatric hospitals and clinical settings.		The Psychiatry course aims to train the students for the conceptualization of psychopathology from different etiological perspectives, eliciting phenomenology, arrive at the clinical diagnosis following a classificatory system, and propose/carry out psychological interventions including psychosocial treatment/management for the entire range of psychological disorders.	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
HCP155	Practical: Psychological Assessments and Viva Voce	2020	Practice of Psychological assessments on the clinical/non-clinical populations will facilitate the employability among students in clinical, corporate and other health-care and research-based settings.	The Psychological assessments provide the understanding for the necessities and the requirement of assessment in clinical or non-clinical population and be helpful for students to become entrepreneurs in the field.	To provide hands-on experience in acquiring the necessary skills and competency in selecting, administering, scoring and interpreting psychological tests often employed in clients with mental or neuropsychological disorders	https://www.amity.edu/jaipur/1_2_2.aspx
HCP160	Submission of five cases of full-length Psychodiagnostics Report	2020			A student should maintain a submit a record that should include a summary of the clinical history organized under relevant headings, and a discussion on a) rationale for testing, b) areas to be investigated, c) tests administered and their rationale, d) test findings and e) impression. This will help to acquire the necessary skills for report writing and clinical assessment reports.	https://www.amity.edu/jaipur/1_2_2.aspx
HCP201	Biological Foundations of Behaviour	2020	The understanding of biological causes in the genesis of normal and abnormal behavioral/emotional manifestations can be assessed by neuropsychological assessment. Students can be employed to the centers for Neuropsychological assessments and rehabilitation.		Biological foundations of behaviour will help to acquire the skills to learn how the brain is involved in the genesis of normal and abnormal behavioral/emotional manifestation would result in better clinical judgment, lesser diagnostic errors, and increased sensitivity to consider and rule out a neuropsychological origin or biochemical mediation of the psychopathology.	https://www.amity.edu/jaipur/1_2_2.aspx
HCP202	Psychotherapy and Counseling	2020	The students learn various theoretical theories of clinical problems, intervention techniques, and their advantages and limitations. These skills will be useful to get employment in psychiatric hospitals and private psychiatric settings.		This Course will help to Impart knowledge and skills necessary to carry out psychological interventions in mental health problems with required competency. As a prelude to problem-based learning within a clinical context, the trainees are introduced to factors that lead to the development of an effective working therapeutic alliance, pre-treatment assessment, setting therapy goals, evaluation of the success of therapy in producing desired changes, and variables that affect the therapy processes.	https://www.amity.edu/jaipur/1_2_2.aspx
HCP203	Behavioural Medicine	2020	Behavioural Medicine course deals with psychological theories and methods that contribute immensely to the understanding and appreciation of health behaviour, psychosocial and cultural factors influencing the development, adjustment to, treatment, outcome and prevention of psychological components of medical problems. This course will enhance the possibilities of working in medical hospitals with non-psychiatric patients with general health conditions.		Behaviour Medicine course enhances the required skills and competency to assess and intervene for psychological factors that may predispose an individual to physical illness and that maintain symptoms, in methods of mitigating the negative effects of stressful situations/events and buffering personal resources. The competency/skills are imparted through supervised workups, assessment, and practical work of carrying out various treatment techniques within clinical context.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
HCP255	Practical: Psychological Therapy and Viva Voce	2020	Practice of Psychological Therapy on the clinical/non-clinical populations will facilitate the employability among students in providing therapy and counselling in clinical, corporate, and other healthcare settings.	The Psychological therapies provide the understanding for the necessities and the requirement of assessment in clinical or non-clinical population and be helpful for students to start their own clinics and provide help to the society.	To provide hands-on experience in acquiring the necessary skills and competency in selecting and using various therapeutic approaches and techniques for the clients/patients with mental or neuropsychological disorders.	https://www.amity.edu/jaipur/1_2_2.aspx
HCP256	Submission of five cases of full-length Psychotherapy Report	2020			A summary of the clinical history organized under relevant headings, and a discussion on a) reasons for intervention(s), b) areas to be focused on including short- and long-term objectives, c) type and technique of intervention employed and rationale d) therapy processes, e) changes in therapy or objectives, if any, and the reasons for the same, f) outcome, g) prevention strategies, f) future plans of 5 (Five years). This will help students with report writing, and interventional documentations	https://www.amity.edu/jaipur/1_2_2.aspx
HCP260	Dissertation	2020	Dissertation developed skills to plan and carry out the research and choose their research interest. This will boost employability and find potential researchers who are working on the same research areas. Students can work as Junior research fellows, senior research fellows, and research associates with various organizations.		Dissertation writing enhances students' ability to undertake research planning, facilitating research skills, decision making, effective writing skills, critical thinking. These skills will be attained through a year of dissertation work and submitted as partial fulfillment of the M.Phil. course.	https://www.amity.edu/jaipur/1_2_2.aspx
BEG105	American Short Fiction	2018			It helps to interpret and discuss key ideas, themes, and aesthetic modalities of different ages.	https://www.amity.edu/jaipur/1_2_2.aspx
BEG106	Introduction to Folk Literature	2021			Explore literary representations for critical thinking	https://www.amity.edu/jaipur/1_2_2.aspx
BEG150	ProjectWork on Theatre	2021			Explore literary representations for critical thinking	https://www.amity.edu/jaipur/1_2_2.aspx
BEG205	IndianShortFiction	2018			Develops knowledge regarding nuances of English Language	https://www.amity.edu/jaipur/1_2_2.aspx
BEG206	Tradition,Identity and Culture:Various Approaches	2021			Develops knowledge regarding tradition and identity	https://www.amity.edu/jaipur/1_2_2.aspx
BEG250	ProjectWork on Script Writing	2021	enables learners to acquire skill for script writing		Encourages to gain knowledge about script writing	https://www.amity.edu/jaipur/1_2_2.aspx
BEG350	ProjectWork on Script Writing	2021			enables to develop interest in story writing	https://www.amity.edu/jaipur/1_2_2.aspx
BEG307	The Folk and Modern Narratives	2021			Explores folk and various modern narratives	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BEG405	Afrianc American Writing	2018			demonstrate knowledge aobut Afro-american writing	https://www.amity.edu/jaipur/1_2_2.aspx
BEG406	Exploration of Folk Tradition and Culture	2021			develops interest in varous folk tradition and learn various methods the ways to conserve folklore	https://www.amity.edu/jaipur/1_2_2.aspx
BEG450	Project work on Digital Media	2021	hands on digital media content		encourages independent work and reasearh on digital media content	https://www.amity.edu/jaipur/1_2_2.aspx
BEG506	DimensionsofFolkloreStudies	2021			Helps the learners to establish relationship between gender and folklore in detail.	https://www.amity.edu/jaipur/1_2_2.aspx
BFR101	Written Communication-1	2017				https://www.amity.edu/jaipur/1_2_2.aspx
BFR102	Oral Communication-1	2017				https://www.amity.edu/jaipur/1_2_2.aspx
BFR103	French for Hotel and Restaurant Industry	2017	Apply the knowledge (professional skill) in the real situation of Hotel and Restaurant Industry.	Apply the knowledge (professional skill) in the real situation of Hotel and Restaurant Industry.		https://www.amity.edu/jaipur/1_2_2.aspx
BFR150	Project work	2017			Encourage independent work and research	https://www.amity.edu/jaipur/1_2_2.aspx
BFR201	Written Communication-II	2017			Express clearly ideas, themes in simple standard French	https://www.amity.edu/jaipur/1_2_2.aspx
BFR202	Oral Communication-II	2017			Express clearly ideas, themes in simple standard French	https://www.amity.edu/jaipur/1_2_2.aspx
BFR203	French for Tourism Industry	2017	Communicate in common situation in the profession of hotel industry regarding services and room amenities	Communicate in common situation in the profession of hotel industry regarding services and room amenities	Demonstrate and Display the linguistic and professional skill pertaining to various job in tourism industry	https://www.amity.edu/jaipur/1_2_2.aspx
BFR250	Project Work	2017			Encourage independent work and research	https://www.amity.edu/jaipur/1_2_2.aspx
BFR301	Written Communication-III	2017			Interpret different types of texts as well as French civilizational ideas and theme	https://www.amity.edu/jaipur/1_2_2.aspx
BFR302	Oral Communication-III	2017			Develop the linguistic and professional competence to communicate in writing as well as verbal in French society.	https://www.amity.edu/jaipur/1_2_2.aspx
BFR303	Overview of French Culture and Civilization-I	2017			Insight into the major events- historical, political and cultural- of French society extending from French Revolution till today.	https://www.amity.edu/jaipur/1_2_2.aspx
BFR350	Project Work	2017			Encourage independent work and research	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BFR401	Written Communication-IV	2017			Interpret different types of texts as well as French civilizational ideas and theme	https://www.amity.edu/iaipur/1_2_2.aspx
BFR402	Oral Communication-IV	2017			Express in more complex sentences in standard French	https://www.amity.edu/iaipur/1_2_2.aspx
BFR403	French through Literary Texts	2020				https://www.amity.edu/iaipur/1_2_2.aspx
BFR404	Technology French	2017			Develop the linguistic and professional competence to communicate in writing as well as verbal in technical field	https://www.amity.edu/iaipur/1_2_2.aspx
BFR405	Professional and Business French	2017			CLO 2. Demonstrate and Display the linguistic and professional skills pertaining to various jobs in Engineering domain	https://www.amity.edu/iaipur/1_2_2.aspx
BFR406	Contemporary French and Francophone Literature- I	2020			provide a broad perspective of the thoughts and philosophy of the period, and contemporary works thereby developing a critical approach in that area.	https://www.amity.edu/iaipur/1_2_2.aspx
BFR450	Project Work	2017				https://www.amity.edu/iaipur/1_2_2.aspx
BFR501	Written Communication- V	2017	Improves employability			https://www.amity.edu/iaipur/1_2_2.aspx
BFR502	Oral Communication-V	2017			Enrich the formulations, the linguistic tools and vary the sentence structure	https://www.amity.edu/iaipur/1_2_2.aspx
BFR503	Introduction to French literary Movements & Typology of literary genres	2017			Introduce the students to French literature across the centuries	https://www.amity.edu/iaipur/1_2_2.aspx
BFR504	Literary Text : le petit prince by St. Exupéry	2017			To have a broad perspective of the thoughts and philosophy of the period, and contemporary works	https://www.amity.edu/iaipur/1_2_2.aspx
BFR505	Literary Text :l'Etrangerby Albert Camus	2017			Demonstrate comprehension of the text	https://www.amity.edu/iaipur/1_2_2.aspx
BFR506	Contemporary French and Francophone Literature- II	2017			Mobilise a broad perspective of the thoughts and philosophy of the period, and contemporary works thereby developing a critical approach in that area.	https://www.amity.edu/iaipur/1_2_2.aspx
BFR550	Summer Internship Project	2017			Involves academic reading of several sources and writing on a particular topic relating to the core course or courses of the program.	https://www.amity.edu/iaipur/1_2_2.aspx
BSS503	Behavioural science V	2017				https://www.amity.edu/iaipur/1_2_2.aspx
BFR601	Introduction to Linguistics	2017			To help analyze linguistically the French language.	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BFR602	Overview of French Culture and Civilization-II	2017			Give an insight into the major events – historical, political, and cultural of France society extending the French Revolution till today.	https://www.amity.edu/iaipur/1_2_2.aspx
BFR603	Oral Communications– VI	2017			Develop logical thinking, to speak, argue and debate in a coherent and cohesive manner employing appropriate words of liaison, and transition	https://www.amity.edu/iaipur/1_2_2.aspx
BFR604	Introduction to Translation	2017	Practical training in techniques of translation	Practical training in techniques of translation		https://www.amity.edu/iaipur/1_2_2.aspx
BFR605	Consecutive Interpretation	2017	Practical training in interpretation	Practical training in interpretation		https://www.amity.edu/iaipur/1_2_2.aspx
BFR304	France & The World -I	2017			Insight into the major events- historical, political and cultural- of French society	https://www.amity.edu/iaipur/1_2_2.aspx
BFR540	French Literature	2017				https://www.amity.edu/iaipur/1_2_2.aspx
BFR640	Francophone literature	2017			Helps students to understand Francophone literature	https://www.amity.edu/iaipur/1_2_2.aspx
MEG150	Project work on Theature	2021	Become theatre artists and script writers	Create and develop theatre academy for teaching acting and staging plays	Interpret and discuss key texts, ideas, themes, and aesthetic modalities	https://www.amity.edu/iaipur/1_2_2.aspx
MEG250	Project work on Script Writing	2021	acquiring script writing as career	Developing content	Enhance creative thinking and its use	https://www.amity.edu/iaipur/1_2_2.aspx
MEG211	Shakesparen Literature	2017				https://www.amity.edu/iaipur/1_2_2.aspx
MEG305	Later comedies nad poems	2017			Explain how the texts, ideas, themes, and modalities arose within a given cultural or historic context	https://www.amity.edu/iaipur/1_2_2.aspx
MEG306	Indian Drama and Theature	2021				https://www.amity.edu/iaipur/1_2_2.aspx
MEG406	Post Modern Indian English Drama	2021	Opportunities in Film & theatre making and performing		Explain how the texts, ideas, themes, and modalities arose within a given cultural or historic context	https://www.amity.edu/iaipur/1_2_2.aspx
A2	A2 Courses in FL Chinese/French/ German/ Spanish	2021				https://www.amity.edu/iaipur/1_2_2.aspx
BAE101	Mathematics for Economics – I	2018	Mathematical tools enhance the understanding about economic concepts and Analytical Power to solve real life economic problems. They are extensively used by industry experts in Demand Forecasting, Cost analysis & Production related areas.	Entrepreneurs make use of various mathematical tools to decide optimum level of output and maximize profits under constraind environment.		https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAE104	Economic History of India	2018			Helps to improve understanding of how economic scenario & economic concepts have changed over different times.	https://www.amity.edu/jaipur/1_2_2.aspx
BAE105	Law and Economics	2018		The course on Law and Economics illustrate how legal rules are amenable to economic analysis. It helps the entrepreneurs to recognise the law as an important organising force that influences the actions of private citizens as well as government agencies. The knowledge of this helps entrepreneurs to know how law can support and, at times conflict with, the functioning of the market and the government.		https://www.amity.edu/jaipur/1_2_2.aspx
BAE106	An Introduction to Political Theory	2018			This paper familiarizes the students with the basic normative concepts of political theory. Each concept is related to a crucial political issue. It encourages critical and reflective analysis and interpretation of social practices.	https://www.amity.edu/jaipur/1_2_2.aspx
BAE301	Statistics for Economics- I	2018	This paper Increases employability as it is widely used in all the sectors of economy especially banking, finance insurance etc.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE302	Micro Economics – III	2018	Knowledge about Assymmetric Information , Market Failure, Externalities are used intensively in various industries like Insurance, automobile etc.	Concepts Like Production,Costs and Markets are Important for an Entrepreneur.		https://www.amity.edu/jaipur/1_2_2.aspx
BAE303	Macro Economics – III	2018	Macro economics concepts are widely used by research analysts in all sectors.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE304	Indian Economy – I	2018		Knowledge of different aspects of Indian economy and related data helps entrepreneurs in decision making.		https://www.amity.edu/jaipur/1_2_2.aspx
BAE305	Economics of Health and Education	2018	This is a course in applied economics, which enhances the employability of students by imparting them knowledge about health and education as components of human capital in the framework of economic theory.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE306	Financial Economics	2018	This course is designed to introduce you to the frontiers of research in financial economics. It enhances employability in financial markets for jobs related to Investment analysis and Portfolio Management.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE401	Statistics for Economics- II	2018	It Increases employability in general in all industries as it is widely used in all the sectors of economy.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE402	Development Economics – I	2018	The course in Development economics enables students to play roles of policy advisors and researchers in govt. non-government and civil society organisations. Graduates who study this course can be found in national governments, multilateral organisations and policy influencing positions around the world, in organisations like the World Bank, United Nations and as civil servants around the world.			https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAE403	Game Theory	2018		Game theory is the science of strategy, or at least the optimal decision-making of independent and competing actors in a strategic setting. Using game theory, real-world scenarios for such situations as pricing competition and product releases (and many more) can be laid out and their outcomes predicted. Hence this is really important for an entrepreneur to take strategic decisions in real world competitive markets.		https://www.amity.edu/jaipur/1_2_2.aspx
BAE404	Indian Economy – II	2018		Knowledge of different aspects of Indian economy and related data helps entrepreneurs in decision making. This course examines sector-specific policies and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence.		https://www.amity.edu/jaipur/1_2_2.aspx
BAE405	Public Economics	2018	Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution, and stabilisation. The subject encompasses a host of topics including public goods, market failures and externalities. Thus it increases employability in organisations conducting research and analysing impact of govt. policies.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE502	Econometrics—Basic Theory & Application	2018	This course provides the basic econometrics techniques emphasizing numerical estimation of economic relationships as applied to practical economic and managerial problems. This increases employability in almost all sectors of economy for making policy decisions & forecasting purpose.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE503	Financial Economics	2018	Financial markets are becoming ever more complex, offering new types of financial instruments. This course aims to enable the learners in developing an understanding of the financial system and finding suitable jobs in financial sector of economy.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE509	Economic Analytics –I	2019	This course introduces students to the field of Analytics and enables them to learn how to perform economic analysis using various softwares available. This increases employability in all sectors of economy where econometric modelling is used.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE602	Strategic Management	2018			The objective of this course is to develop an understanding of the integrative role of all areas of management in business.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAE606	Economics of Health and Education	2018	This course provides a microeconomic framework to analyse individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India. The knowledge of the same helps the students in finding jobs in various NGOs and in research agencies engaged in researches related to health & education.			https://www.amity.edu/jaipur/1_2_2.aspx
BAE608	Economic Analytics –II	2019	This course introduces students to the field of Analytics and enables them to learn how to perform economic analysis using various softwares available. This increases employability in all sectors of economy where econometric modelling is used.			https://www.amity.edu/jaipur/1_2_2.aspx
BHH101	History of India-I	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH102	Social Formations and Cultural Patterns of the Ancient World	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH103	Economic History of India (1757 to 1947)	2018	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH104	History of Latin America (c. 1500 – 1960)	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH105	Constitutional History	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops foundational skills for higher legal studies.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BHH201	History of India-II	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH202	Social Formations and Cultural Patterns of the Medieval World	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH203	History of Contemporary India	2018	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH204	Social and Political History of Rajasthan	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH205	Civil Services in India - History and Scope	2018	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses. Additionally provides a competitive advantage to Civil Service aspirants.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH206	History of Temple Architecture	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH301	History of India-III (c. 750-1206)	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH302	History of Southeast Asia – The 19th Century	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BHH303	History of England –1900 to 2000 A.D.	2018	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH304	Rise of Modern West-I	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH401	History of India- IV (c. 1206-1550)	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH402	Rise of Modern West-II	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH403	History of Fascism	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH404	History of Southeast Asia-20th Century	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH405	Internship	2019	This Course improves the students' employability by exposing them to the work culture of the organisation in which they get attached as interns, and providing them limited work experience.		Skill relevant to the nature of the internship program is developed in the student.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH501	History of India-V (c. 1550-1605)	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BHH504	History of India-VI (c. 1750-1857)	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH505	Major Sources of Indian History	2018	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH506	History of Nazism	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH601	History of India-VII (c. 1605-1750)	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH602	History of India-VIII (c. 1857-1950)	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH603	History of Subaltern (1800 A.D to 1947 A.D)	2018	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BHH606	Major Revolutions and Revolutionary Thoughts	2019	This Course helps the students prepare for a career in academics, IAS and Allied services as well as Provincial Civil Services Examinations or preparing them for the Armed Forces or other Central & State government competitive examinations.	This course comes in useful if the student decides to setup a coaching enterprise for IAS and Allied Services Examinations, Provincial Civil Services Examinations, Armed Forces or other Central & State government competitive examinations.	Develops critical historical thinking and historical analyses.	https://www.amity.edu/jaipur/1_2_2.aspx
BPS102	Basic Principles of Political Science	2018	This paper is one of the basic papers of political science hence very relevant for all competitive exams including civil services.			https://www.amity.edu/jaipur/1_2_2.aspx
BPS103	Political Ideologies	2019	This paper is one of the basics of political science hence very relevant for civil services and other exams and NGOs.			https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BPS105	Global Themes in Development and Politics	2020	This paper exposes to global issues hence empowers students for all kinds of jobs.			https://www.amity.edu/jaipur/1_2_2.aspx
BPS106	Feminism :Theory and Practice	2020	This paper sensitise students about feminism and empowers students for being journalists and other works.	This paper also empowers to join politics at any level or to start one's own NGOs.		https://www.amity.edu/jaipur/1_2_2.aspx
BPS201	Indian Constitution	2019	This paper exposes students with the basics of Indian constitution hence very important for all exams and NGOs.	One can start one's own entrepreneurial ventures. Knowledge of Indian constitution will be always hands on knowledge.		https://www.amity.edu/jaipur/1_2_2.aspx
BPS202	Government and Politics in India	2020	This paper is very basic of Indian Politics hence very useful for all jobs including civil services, journalism etc.	One can start one's own entrepreneurial ventures. Knowledge of Indian politics will be always hands on knowledge.		https://www.amity.edu/jaipur/1_2_2.aspx
BPS204	Major World Constitutions	2019	This paper familiarise students with happenings and constitutional provisions of major powers of the world. Hence very relevant for all exams.			https://www.amity.edu/jaipur/1_2_2.aspx
BPS206	Political Economy	2019	This paper details about the different ideologies which is again very important for all the exams.			https://www.amity.edu/jaipur/1_2_2.aspx
BPS401	Indian Political Thought-II	2019	Indian Political Thought is compulsory for every exams so its employability is very high.			https://www.amity.edu/jaipur/1_2_2.aspx
BPS402	Western Political Thought –II	2019	Western Political Thought is also compulsory for every exams so its employability is very high.			https://www.amity.edu/jaipur/1_2_2.aspx
BPS403	International Relations –I	2019	International Relations is also an integral part of every competitive exam. So employability is very high.	This paper empowers one to join different Think Tanks.		https://www.amity.edu/jaipur/1_2_2.aspx
BPS405	Internship	2019	Internship is important component of higher education and it exposes them to work place before joining work.	One can start his /her own venture with the help of internship experience.	It emparts many skills like field work data collection which open opportunities for many jobs.	https://www.amity.edu/jaipur/1_2_2.aspx
BPS501	International Relations- II	2019	International Relations is also an integral part of every competitive exam. So employability is very high.	This paper empowers one to join different Think Tanks.		https://www.amity.edu/jaipur/1_2_2.aspx
BPS503	India's Foreign Policy	2019	Study of Foreign Policy is a compulsory paper for all competitive exams including civil services.	This paper empowers one to join different Think Tanks.		https://www.amity.edu/jaipur/1_2_2.aspx
BPS504	Media and Politics in India	2019	This paper entitles to get a job both at print and electronic media.	This paper empowers one to join media houses.		https://www.amity.edu/jaipur/1_2_2.aspx
BPS602	Modern Political Analysis	2019	This paper deals with various aspects of modern issues of politics. It empowers students fetching good jobs.			https://www.amity.edu/jaipur/1_2_2.aspx
BPS605	Environmental Politics in India	2019	This paper sensitize students aboutut issues and challenges of environmental degradadation its protection and its politics and also part of many exams.	This paper empowers one to join NGOs or to start NGOs.	While writing dissertation one learns many skills	https://www.amity.edu/jaipur/1_2_2.aspx
BPS606	Social Movements in India	2019	This paper deals with different social movements in contemporary India which gives students a better understanding of Indian realities and helps them fetching good jobs.			https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BPS607	Growth of Communalism and Politics	2019	This paper deals with partition and developments in post independent modern India. The beginning of communalism in India. This gives students a very good understanding of Indian Politics and empower them for all the competitive exams.			https://www.amity.edu/jaipur/1_2_2.aspx
MTBPS202	GOVERNMENT AND POLITICS IN INDIA	2021				https://www.amity.edu/jaipur/1_2_2.aspx
MTBPS302	WESTERN POLITICAL THOUGHT	2021				https://www.amity.edu/jaipur/1_2_2.aspx
MTBPS403	INTERNATIONAL RELATIONS	2021				https://www.amity.edu/jaipur/1_2_2.aspx
MTBPS503	INDIA'S FOREIGN POLICY	2021				https://www.amity.edu/jaipur/1_2_2.aspx
MTBPS602	MODERN POLITICAL ANALYSIS	2021				https://www.amity.edu/jaipur/1_2_2.aspx
BJM107	News & Contemporary Issues	2018	It will focus on to provide knowledge and skills related to news and contemporary issues and will explore broadening an understanding of contemporary approaches through diverse discourses on current affairs.			https://www.amity.edu/jaipur/1_2_2.aspx
BJM506	Digital Marketing	2019	The course introduces to students to the latest trends, practices, and techniques of digital marketing.		Students will learn various tools and techniques of digital marketing including SEO, SEM, AdWords, Algorithms etc	https://www.amity.edu/jaipur/1_2_2.aspx
MTBJM201	Advertising Principles and Practices	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTBJM 303	Public Relations	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTBJM 405	Corporate Communication	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTBJM 503	Event Management	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTBJM 611	National and International Issues and Affairs	2020				https://www.amity.edu/jaipur/1_2_2.aspx
BAV208	Digital Video Production	2021	This course will generate employability for the students in visual medium as a cinematographer and video editor. Also, students will get the freelance or contract opportunity as video editor frequently.	Students expertise in cinematography and video editing can set up their own production houses and can generate employment for the like minded and skilled persons.	This course will help the students to understand the basic cinematography knowledge which includes different camera movements , came angles and lighting techniques. Also, students will get proper understanding on editing techniques using premier pro software.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAV308	Digital Story Telling	2021			Students will understand the elements of story telling techniques, types of plots, and act structure which helps them to become a creative and effective story teller.	https://www.amity.edu/iaipur/1_2_2.aspx
BAV507	Foley & Sound effects for Film & Animation	2021	This course will generate employability for the students in various recording studios as a recording engineer, recording artist, foley artist and sound manager.	Students expertise in this subject can start their freelance studio work in sound recording of various audios and also in creating foley sounds for various organizations	This course will help the students creatively to apply digital post production techniques in the production of a finished soundtrack recording and also in recreation of sounds for film and televisions. It will also teach them how to synchronise audio and video by using various editing software	https://www.amity.edu/iaipur/1_2_2.aspx
MJM308	Media Marketing and Sales	2019	Student will get an insight and awareness about the concept and types of Media marketing. Student will be able to have an overview of the various aspects of Media planning and buying. Student will have an understanding how to develop skills to manage the media sales.			https://www.amity.edu/iaipur/1_2_2.aspx
MAV109	Sound Editing	2021	This course will generate employability for the students in entertainment and education sectors and also in Radio medium. It will also help them to take over freelance jobs as a audio editor.	Students expertise in this particular subject can start their own freelance work in audio editing for videos, films, songs, podcast and for various other channels	This course will help the students to understand the fundamentals of stop motion animation, its techniques and concept of creating animation videos for films, web series, advertisements and various channels and organizations	https://www.amity.edu/iaipur/1_2_2.aspx
MAV209	Digital Video Production	2021	This course will generate employability for the students in visual medium as a cinematographer and video editor. Also, students will get the freelance or contract opportunity as video editor frequently.	Students expertise in cinematography and video editing can set up their own production houses and can generate employment for the like minded and skilled persons.	This course will help the students to understand the basic cinematography knowledge which includes different camera movements , came angles and lighting techniques. Also, students will get proper understanding on editing techniques using premier pro software.	https://www.amity.edu/iaipur/1_2_2.aspx
MAV309	Advanced Screen Design	2021	Students will get lot of opportunities based on the portfolio they have made using the acquired knowledge and they might get an opportunity to take part in design sprint too. Apart from this students will also get a part of works from a big project and they can work on contract or project basis.	Students can set up their own design studio or they can work as a free lance UI/UX designer for an application or for an website with a group of same minded and people from the same arena.	students will understand the advanced screen design techniques. Also, they will be made to create the prototype of an app /webpage using Adobe XD software.	https://www.amity.edu/iaipur/1_2_2.aspx
ILB101	Introductory Economics	2020	Enable to communicate effectively and professionally using a range of communication modes in various business contexts		The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand. The course will attempt to relate theory to practice and try to instill in students the ability to apply basic microeconomic concepts to the understanding of everyday phenomena.	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
ILB301	Introductory Microeconomics	2020			This course is to familiarize the students with the concepts of macro economics so that they can use these as inputs in decision making process. Emphasis would be laid on the understanding of key economic variables which influence the individual life and the business environment in which the business operations and strategies of the firm take place	https://www.amity.edu/jaipur/1_2_2.aspx
ILB201	Intermediate Microeconomics	2020	It makes student acquainted about the various market structures within which a firm operates. It also deals with long-term decision making and market efficiency.			https://www.amity.edu/jaipur/1_2_2.aspx
ILB501	Indian Economy	2020	The students would be able to know the concepts of development and growth economics. And can be part of Financial planning		It enhances to use appropriate analytical frameworks in the course It also reviews major trends in economic indicators and policy debates in India in the post-Independence period, with emphasis on paradigm shifts and turning points.	https://www.amity.edu/jaipur/1_2_2.aspx
ILB401	Public Economics	2020			Public economics is the study of government policy from the points of view of economic efficiency and equity. It deals with the nature of government intervention and its implications for allocation, distribution, and stabilisation. The subject encompasses a host of topics including public goods, market failures and externalities	https://www.amity.edu/jaipur/1_2_2.aspx
ILB202D	Science & Technology and National Security	2020			It helps the students to get knowledge and skills in science and technology in reference to the national security. The changes in weapon systems and the method of warfare that come about due to innovations are sought to be introduced in this course .	https://www.amity.edu/jaipur/1_2_2.aspx
ILB102D	India's Defence Policy and Organisation	2020			The course intends to enhance the knowledge and skills of students with India's defence policy and organizational structure.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB204	Fundamentals of moot court-I	2019			To help students develop Moot Court skills, Public speaking and analytical skills.	https://www.amity.edu/jaipur/1_2_2.aspx
ILB302D	War and Peace in Modern Age	2020			The course intends to make the students acquainted with the advancements in the field of war and peace studies in contemporary global scenario,	https://www.amity.edu/jaipur/1_2_2.aspx
LLB504	Local Self Government in India	2018			This course helps in multi-dimensional and inter-sectoral knowledgebase for strengthening local government institutions and development organisations. The curriculum enables students to understand and analyse the dynamics of decentralized governance, and, equip them with skills and practical exposure in different cross-cutting areas	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
LLB505	Agriculture Law	2020	It provides employability for Agriculture officer		The course will develop the understanding of the various legal provisions regarding agriculture finance, land reforms, regulations in agricultural activities, agricultural related IPR issues as well as some international Organizations/Institutions that are fundamental to agriculture. It also emphasizes on a holistic approach towards the overall development of agriculture and its allied sectors in India.	https://www.amity.edu/iaipur/1_2_2.aspx
LLB603CP	Human Rights Law & Practice (Constitutional Law Hons Paper-I)	2017			The course helps to make students acquainted about the developments of Human Rights Law and the working of the different Human Rights Institutions.	https://www.amity.edu/iaipur/1_2_2.aspx
LLB603CG	Law and Economics (Corporate Law Hons. Paper -I)	2017			The course will use economic analysis to illuminate the structure of law in the fields of property law, tort law, contract law, and criminal law.	https://www.amity.edu/iaipur/1_2_2.aspx
LLB603IPR	Patent Law (IPR-Hons. Paper -I)	2017	It provides employability as working in law firm		The course is designed to provide comprehensive knowledge to the students regarding comparative Indian position of the Patent Law	https://www.amity.edu/iaipur/1_2_2.aspx
LLB603ITL	General Principles of GATT and World trade Organization Law (International Trade law- Hon. Paper –I)	2017	It provides employment oppourtunities in the matters of International Trade law and also in WTO /		International Trade Law Principles to assist the aggrieved party in getting justice from the court of law if at all his/her grievance is not taken care of by the concerned	https://www.amity.edu/iaipur/1_2_2.aspx
LLB603CRL	Criminology (Criminal Law Hon. Paper-I)	2017			Understand the general principles and theories of criminology evolved at national and international level.	https://www.amity.edu/iaipur/1_2_2.aspx
LLB604	Land law including Tenure and Tenancy System	2020	It provides oppourtunities in the field of revenue office , cAppointed as receiver by court in land matters		To impart basic knowledge about land reforms apart from land acquisition procedures and rent laws.	https://www.amity.edu/iaipur/1_2_2.aspx
LLB605	cyber law	2020	It can help the students to become cyber security officer.		The objective of course is to provide general introduction of Cyber world and Cyber law and to educate the student about National and International cyber space regulation and its relevance in modern context.	https://www.amity.edu/iaipur/1_2_2.aspx
LLB706CP	Right to Information (Constitutional Law Hons Paper-II)	2017	It Provide oppourtunities in RTI as member of the commission, Infromation Officer .		this paper is to provide for setting out the practical regime of right to information to secure access to information under the control of public authorities, in order to promote transparency and accountability	https://www.amity.edu/iaipur/1_2_2.aspx
LLB706CG	Corporate Governance (Corporate Law Hons. Paper –II)	2017	It enables the studentt to work in MCA as legal advisor or in company as Auditor . CAT		To enable the students to understand the principles and structural mechanisms established for corporate governance	https://www.amity.edu/iaipur/1_2_2.aspx
LLB706IPR	Copy Right (IPR-Hons. Paper -II)	2017	It provides employability in drafting copyright registration deed.		The course is designed to provide comprehensive knowledge to the students regarding Indian position of the Copy Right Law and Designs Law which invariably form the part of Intellectual Property Law	https://www.amity.edu/iaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
LLB706ITL	Private International Trade Law (International Trade law- Hon. Paper -II)	2017			It gives skill to understand the conceptual and operational parameters of various special principles/doctrines of International Trade law.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB706CRL	Penology & Victimology(Criminal Law Hon. Paper-II)	2017			Course is designed to acquaint the students about new emerging offences in different mode and manner that directly or indirectly affect the society	https://www.amity.edu/jaipur/1_2_2.aspx
LLB708	Socio-Economic Offences	2017			The students will be able to know the concept of Socio economic crime and other traditional Crime.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB709	Sport Law	2020	Employ as an sport law officer in Sports Authority of India, National Anti-DopingAgency, BCCI		This course will enable the students to understand andinterpret different issues such as doping, betting, civil and criminal liability etc.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB805CP	Law and Education(Constitutional Law Hons Paper -III)	2017			Analyze the need and importance of Right to education as a fundamental right	https://www.amity.edu/jaipur/1_2_2.aspx
LLB805CG	Competition Law (Corporate Law Hons. Paper -III)	2017	It provides employability oppourtunities to work in CCI , Or expert in the International market deals with merger and acquisitions		The paper focuses on the investment and competition laws of India in the context of new economic order.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB805IPR	Trade Mark & Designs Act (IPR Hons Paper-III)	2017	Employability as the Compliance Officer, Public Relation Officer and Liaison Officer		Skill to understand the concept of intellectual property rights.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB805ITL	Dispute Settlement and International Trade Law and Investment Law (International Trade law- Hon. Paper	2017	Employability as the Compliance Officer, Public Relation Officer and Liaison Officer.		Skill to understand the concept of intellectual property rights.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB805CRL	Forensic Science-I(Criminal Law Hon. Paper-III)	2017	It provides the employment oppourtunities in the field of forensic lab, Investigation agencies,CBI, IB		The course is designed to acquaint the students the method of collecting evidences from crime scene and contribution of Forensic Science in making testimonial documents to be produced before the court. To study the examination of various objects that can be a sample of evidence while proving or disproving the offence,	https://www.amity.edu/jaipur/1_2_2.aspx
LLB806CP	Gender Justice and Feminist Jurisprudence(Constitutional Law Hons Paper -IV)	2017	To work in NGO for the welfare of women, social activist		To know the various laws which protects the rights of woman.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB806CG	Bankruptcy and Insolvency (Corporate Law Hons. Paper -IV)	2017	It will surely develop the student's employment skills as becoming a lawyer or as an liquidator appointed by court.in the issues relating to Bankruptcy and Insolvency	It will surely develop the student's entrepreneurskills with the impact of Global technology and will enable them to Manage the emerging Corporate issues relating to Bankruptcy and Insolvency	Students will have an opportunity to focus on strategies to manage the matters of Bankruptcy and Insolvency in their professional practice.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB806IPR	Advance IPR (IPR Hons Paper-IV)	2017	The student can be employed for the procedural and practical aspects of patent filling, registration		To acquire knowledge of the legal, procedural and practical aspects ofAdvanced IPR	https://www.amity.edu/jaipur/1_2_2.aspx
LLB806ITL	International Trade remedies (International Trade law- Hon. Paper -IV)	2017	It helps the students in forming the legal professional ethics, responsibilities and norms of the established legal practices		This course is worked out to provide the future lawyers relevant inputs in the area of international trade law.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
LLB806CRL	Forensic Science-II(Criminal Law Hon. Paper-IV)	2017	It provides the employment oppourtunities in the field of forensic lab, Investigation agencies,CBI, IB		The course is designed to acquaint the students the method of collecting evidences from crime scene and contribution of Forensic Science in making testimonial documents to be produced before the court. To study the examination of various objects that can be a sample of evidence while proving or disproving the offence,	https://www.amity.edu/jaipur/1_2_2.aspx
LLB808	Banking & Insurance Law	2020	The student gets an oppourtunity as banking ombudsman, Drafting of DRT applications etc	The students can open a firm for Insurance advise	This course acquaints students with banking system of India and teaches them the various aspects and rights that exist for them in banking and insurance sector.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB809	Air & Space Law	2020	Employment in law regimes on civil aviation, aviation insurance,		To impart basic principles and rule of international laws affecting air, space and outer space	https://www.amity.edu/jaipur/1_2_2.aspx
LLB905CG	Corporate Financing (Corporate Law Hons Paper-V)	2017	The students would be in a position to analyze market transactions and be a employer in Financial institutions	To open and agency which deal with mutual bonds, and other schemes	It will enhance knowledge, develop skills, and build capacities and competencies of the students in tackling issues relating to capital market.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB905IPR	IPR Management (IPR Hons Paper-V)	2017	Employed as Intellectual Property Management expert in firm to assist the aggrieved party in getting justice from the court of law.	The students can open a entrepreneur firm for IPR issues	Apply Intellectual Property Management to assist the aggrieved party in getting justice from the court of law.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB905ITL	Law of International Commercial Arbitration (International Trade law-Hon. Paper – V)	2017	Employment oppourtunities as Appointment of Arbitrators		To provide a basic foundation in the mechanics of international commercial arbitration .To make students competent to practice Alternative Dispute Settlement Mechanisms	https://www.amity.edu/jaipur/1_2_2.aspx
LLB905CRL	International Criminal Law (Criminal Law Hon. Paper-V)	2017			The aim of this course is to analyze the differences in the jurisdiction of the International Criminal Court and the jurisdictions of the International Criminal Tribunal	https://www.amity.edu/jaipur/1_2_2.aspx
LLB906CP	Media Law (Constitution Law Hons. Paper-VI)	2017			It provides the conceptual and operational parameters of various special principles/doctrines of Media Law	https://www.amity.edu/jaipur/1_2_2.aspx
LLB906CG	Corporate Taxation (Corporate Law Hons Paper-VI)	2017	The student will gain a working knowledge regarding computation of tax liability under Direct and Indirect taxes and the relevant procedures		To acquire knowledge of the legal, procedural and practical aspects of the Corporate Taxation	https://www.amity.edu/jaipur/1_2_2.aspx
LLB906IPR	IPR Litigation (IPR Hons. Paper-VI)	2017	Employability as the Compliance Officer, Public Relation Officer and Liaison Officer	Establishment of Legal Consultancy and service provider	Skill to understand the concept of intellectual property rights	https://www.amity.edu/jaipur/1_2_2.aspx
LLB906ITL	International Investment law (ITL Hons. Paper-VI)	2017	The students can be employed as an arbitrator in the Investor-State dispute settlement.		International investment law is the field of international law that governs relationships between states and foreign investors.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB906CRL	Probation and Parole (Criminal Law Hon. Paper-VI)	2017			It helps in identifying Identifying the basic causes of criminal behaviour and possible solutions	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
LLB1004CP	Comparative Constitution (Constitutional Hons. Paper-VII)	2017			Analyze the importance of economic, political and social integration in tune with the Constitutional provisions and the impact of judicial pronouncements. Also to evaluate supremacy of Constitution and its ethos and the active role of Judiciary to safeguard the Constitution and civil liberties.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1004CG	Law on Infrastructure Development(Corporate Law Hons Paper-V)	2017	Employability as in infrastructure sector on the post of legal associate and works in Legal Consultancy and as legal service provider		Skill to examine the importance of independent regulation in infrastructure and to make a general analysis of the laws, policies and the reforms carried out in select infrastructure sectors	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1004IPR	Bio Diversity Protection (IPR Hons Paper-VII)	2017	Employability as the Compliance Officer, Public Relation Officer and Liaison Officer.	It can help in opening up of Laboratories for the testing and which works with collaboration of NGT	Develops procedural knowledge to Legal System and solving the problem relating to Bio Diversity Protection	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1004ITL	Law of IPR in International Trade law (ITL Hons. Paper – VII)	2017	It provides employment oppourtunities in the matters of International Trade lawand to assist the aggrieved party in getting justice from the court of law.			https://www.amity.edu/jaipur/1_2_2.aspx
LLB1004CRL	Comparative Criminal Procedure (Criminal Law Hon. Paper-VII)	2017			To impart knowledge of enforcement system in a comparative framework and to acquaint students with different systems of criminal law and criminal procedure.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1005CP	Health Law (Constitution Law Hons. Paper-VIII)	2017	Employment opportunities in niti ayog, national health mission etc.	Entrepreneurship in startup like mobile van and make aware about the heath laws , especially to females.	It helps students to attain and maintain an optimum health status so that they may receive maximum benefit from their educational experiences. Health education like general education is concern-ed with the change in knowledge, feelings and behavior of people. In its most usual form it concentrates on developing such health practices as are believed to bring about the best possible state of well being	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1005CG	Law on Project Finance (Corporate Law Hons Paper-VIII)	2017	Have a thorough understanding of Business Model, Competencies in Project Finance, and Estimation of cost of Projec Have a clear understanding of Project feasibility Analysis		The course is designed to provide comprehensive knowledge to the students regarding Law on Project Finance.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1005IPR	Patent Drafting and Specification Writing (IPR Hons. Paper-VIII)	2017	It helps in comprehending and participating in court procedures and document information gleaned from basic legal documents		Acquire Knowledge and skill of the applicable rule governing Transfer, Acquisition, surrender, revocation, restoration matters	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1005ITL	Maritime Law (ITL Hons. Paper-VIII)	2017	it gives an employment opportunity in the maritime law regulates registration, license, and inspection procedures for ships and shipping contracts; maritime insurance; and the carriage of goods and passengers.		Maritime law is the law that governs the seas of the countries. The coastal waters of the countries have a set of laws that major shipping companies and other nations need to follow, which are in turn put in place by the Maritime Act.	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1005CRL	Offences Against Child & Juvenile Offences (Criminal Law Hon. Paper-VIII)	2017	It helps in comprehending and participating in court procedures and document information gleaned from basic legal documents		The Course students knowledgeble and skill in the offences against and by the most delicate part of society that is juveniles	https://www.amity.edu/jaipur/1_2_2.aspx
LLB1006	Election Law	2020			To impart basic knowledge about the laws governing the election process, electoral rights, election reforms and role of Election commission in India	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BCH103	Microeconomic Theory & Applications – I	2020	The objective of this course is to introduce the fundamental principles of microeconomics and their role in day-to-day decision making of business organizations. The course will attempt to relate theory to practice and try to instil the ability to apply basic microeconomic concepts & analysis in the understanding of everyday phenomena. A large part of learning microeconomics comprises discovering when abstract models are useful and when they are not. The daily classes are thus devoted to discussing problems that highlight these aspects of microeconomic theory. By the end of the course, you will be able to understand introductory microeconomic theory, solve basic microeconomic problems, and use these techniques to think about a number of policy questions relevant to the operation of the real economy.	Knowledge of this subject helps Entrepreneures to understand the various economic aspects relevant for effective decisions making and analysis of market situations.	The objective of this course is to introduce the fundamental principles of microeconomics and their role in day-to-day decision making of business organizations. The course will attempt to relate theory to practice and try to instil the ability to apply basic microeconomic concepts & analysis in the understanding of everyday phenomena. A large part of learning microeconomics comprises discovering when abstract models are useful and when they are not. The daily classes are thus devoted to discussing problems that highlight these aspects of microeconomic theory. By the end of the course, you will be able to understand introductory microeconomic theory, solve basic microeconomic problems, and use these techniques to think about a number of policy questions relevant to the operation of the real economy.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH202	Microeconomic Theory & Applications – II	2020	This course introduces students to models of how individuals and firms interact within markets, when markets fail, and how government policy may improve outcomes for society. It is complete rigorous introduction of Microeconomics concepts which develop better understanding and improves the analytical skills to understand how different market structures, firm technologies and economic and social policies affect market equilibrium and welfare outcomes. Students will be able to contrast market outcomes under different market structures and perform basic analyses of how policy and technological changes affect supply, demand, prices, and welfare.	This course introduces students to models of how individuals and firms interact within markets, when markets fail, and how government policy may improve outcomes for society. It is complete rigorous introduction of Microeconomics concepts which develop better understanding and improves the analytical skills to understand how different market structures, firm technologies and economic and social policies affect market equilibrium and welfare outcomes. Students will be able to contrast market outcomes under different market structures and perform basic analyses of how policy and technological changes affect supply, demand, prices, and welfare.	This course introduces students to models of how individuals and firms interact within markets, when markets fail, and how government policy may improve outcomes for society. It is complete rigorous introduction of Microeconomics concepts which develop better understanding and improves the analytical skills to understand how different market structures, firm technologies and economic and social policies affect market equilibrium and welfare outcomes. Students will be able to contrast market outcomes under different market structures and perform basic analyses of how policy and technological changes affect supply, demand, prices, and welfare.	https://www.amity.edu/jaipur/1_2_2.aspx
BCH362	Macro Economics Analysis-I	2020	This course is to familiarize the students with the concepts of macro economics so that they can use these as inputs in decision making process. Emphasis would be laid on the understanding of key economic variables which influence the individual life and the business environment in which the business operations and strategies of the firm take place.	This course is to familiarize the students with the concepts of macro economics so that they can use these as inputs in decision making process. Emphasis would be laid on the understanding of key economic variables which influence the individual life and the business environment in which the business operations and strategies of the firm take place.		https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BCH451	Macro Economics Analysis-II	2020	This is the second course that undergraduates take in macroeconomics, it provides framework like IS-LM, a foundation for many years of analysis of short run macroeconomic events, introduction to open economy macroeconomics, exchange rates, and general equilibrium. it provides a solid foundation for economic analysis and thinking that can last throughout their education and subsequent professional careers.	The subject enhances entrepreneurial capabilities in students and make equip them to manage a start up	This is the second course that undergraduates take in macroeconomics, it provides framework like IS-LM, a foundation for many years of analysis of short run macroeconomic events, introduction to open economy macroeconomics, exchange rates, and general equilibrium. it provides a solid foundation for economic analysis and thinking that can last throughout their education and subsequent professional careers.	https://www.amity.edu/jaipur/1_2_2.aspx
MTLOE202	LEGAL FACET OF BUSINESS	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTLO302	Family Law	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTLOE403	Constitutional Law	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTLOE505	Biodiversity and Law	2020				https://www.amity.edu/jaipur/1_2_2.aspx
MTLOE606	Introduction to Criminal Law in India	2020				https://www.amity.edu/jaipur/1_2_2.aspx
ILM101	RESEARCH METHOD & LEGAL WRITING	2017	The course analyze and evaluate the nature and meaning of the research, legal & socio-legal research, its methods and methodology. The course provides learnings on use of library in legal study, interpret the datas, significance of journal, magazine, books in legal field, teaches analyzing of the caseslaws , legal research writing and preparing bibliography,citation etc.	The course analyze and evaluate the nature and meaning of the research, legal & socio-legal research, its methods and methodology. The course provides learnings on use of library in legal study, interpret the datas, significance of journal, magazine, books in legal field, teaches analyzing of the caseslaws , legal research writing and preparing bibliography,citation etc.		https://www.amity.edu/jaipur/1_2_2.aspx
ILM102	COMPARATIVE PUBLIC LAW/ SYSTEM OF GOVERNANCE	2017	The course enables students to examine from a comparative perspective –legal structure, Governance Structure and concepts that are found in Constitutions across the world.			https://www.amity.edu/jaipur/1_2_2.aspx
ILM103	LAW AND JUSTICE IN A GLOBALIZING WORLD	2017	Through this course students will come to know about the concept of globalization and its impact on various sectors of law. It seeks to create an understanding about the nature of law and justice and, in particular, the relationship between the two in contemporary society. The course will these ideas to work through a consideration of a number of contemporary problems concerning law and justice which have arisen due to globalization hence creates chances of employability bothh nationally & internationally.			https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
ILM104crl	Criminology and Penology	2017	In recent years, there seems to have been a transformation of criminological views regarding somewhat skeptical question of criminal accountability. A modern critic attacks the traditional criminological view on the ground that their search for characteristic differences between the class of criminals and the class of non- criminal's rest upon erroneous assumption. Where as to study the modern trend in penology and sentencing procedures and to emphasize the humanist principle of individualizing punishment to suit the offender and his reconciliation. The course teaches about the penal policy should be aimed at protecting the society by preventing crime.			https://www.amity.edu/jaipur/1_2_2.aspx
ILM105crl	Victim Justice and Human rights	2017	In view of magnitude of the problem the existing machinery for control of crime, namely the police and courts have come under severe criticism. Much has been said against capital punishment and imprisonment as methods of preventing and control of crime. Nevertheless, these continue to be the backbone of the system in India. The course dwells on these themes with a view to provide justice to the victims and develop among students a greater understanding of victims' justice and human rights. Compensation to the victims is undoubtedly an important component of Victim justice system.			https://www.amity.edu/jaipur/1_2_2.aspx
ILM201crl	Comparative Criminal Procedure Law	2017				https://www.amity.edu/jaipur/1_2_2.aspx
ILM202crl	International Criminal Law	2017				https://www.amity.edu/jaipur/1_2_2.aspx
ILM203crl	White Collar Crimes	2017				https://www.amity.edu/jaipur/1_2_2.aspx
ILM204crl	Principles Of Criminal Liability And Felonious Torts	2017				https://www.amity.edu/jaipur/1_2_2.aspx
ILM205	Dissertation	2017	The course provides an opprtunity to have understanding of legal topic in detail i.e. interrelation with socio-legal-political aspects and encourages findings of research into a specific area of the law studied during the course. It shall enable to develop transferable skills that will be useful during any law career.		It shall enable to develop transferable skills that will be useful during any law career.	https://www.amity.edu/jaipur/1_2_2.aspx
ILM206	Tutelage	2017	The course provides a platform to learner to apply teaching methodology and develop research skills practices in the workplace.		It shall develop confidence and learning, communication and presentation skills of learners.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAR108	Visual Arts & Appreciation	2018	To familiarize the students with the fundamentals and vocabulary of design. To expose the students to the practice of arts appreciation To enable the students, represent their ideas in different media through aesthetically pleasing compositions.	To familiarize the students with the fundamentals and vocabulary of design. To expose the students to the practice of arts appreciation To enable the students, represent their ideas in different media through aesthetically pleasing compositions.	To familiarize the students with the fundamentals and vocabulary of design. To expose the students to the practice of arts appreciation To enable the students, represent their ideas in different media through aesthetically pleasing compositions.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR109	Presentation Techniques	2019		To familiarize the students with the fundamentals and vocabulary of design. To expose the students to the practice of arts appreciation. To enable the students, represent their ideas in different media through aesthetically pleasing compositions	To familiarize the students with the fundamentals and vocabulary of design. To expose the students to the practice of arts appreciation. To enable the students, represent their ideas in different media through aesthetically pleasing compositions	https://www.amity.edu/jaipur/1_2_2.aspx
BAR308	Photography	2018		The course discusses equipment, processes, and procedures necessary for the photography . Students will learn to use Digital SLR camera, lighting techniques, software and to create output. Students will be able to use High Dynamic Range (HDR) : multiple exposures to create dramatic architecture/interior images without additional professional lighting.	The course discusses equipment, processes, and procedures necessary for the photography . Students will learn to use Digital SLR camera, lighting techniques, software and to create output. Students will be able to use High Dynamic Range (HDR) : multiple exposures to create dramatic architecture/interior images without additional professional lighting.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR309	Vernacular Architecture	2018	To expose the students to traditional architecture of the various parts of the country. The students will have knowledge of the planning aspects, materials used in construction, constructional details and settlement planning of the settlements in various parts of the country.	To expose the students to traditional architecture of the various parts of the country. The students will have knowledge of the planning aspects, materials used in construction, constructional details and settlement planning of the settlements in various parts of the country.	To expose the students to traditional architecture of the various parts of the country. The students will have knowledge of the planning aspects, materials used in construction, constructional details and settlement planning of the settlements in various parts of the country.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR310	Model Making Workshop	2018		To introduce various fabrication skill and techniques to produce scale –models and to encourage preparation of models as an essential phase in design development and evaluation.	To introduce various fabrication skill and techniques to produce scale –models and to encourage preparation of models as an essential phase in design development and evaluation.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR409	Bamboo Architecture	2018	To familiarize the students with sustainable building material bamboo and its application in present technological change. The student shall learn the use of Bamboo for various kind of construction and application.	To familiarize the students with sustainable building material bamboo and its application in present technological change. The student shall learn the use of Bamboo for various kind of construction and application.	To familiarize the students with sustainable building material bamboo and its application in present technological change. The student shall learn the use of Bamboo for various kind of construction and application.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR410	Architecture Documentation	2018	To familiarize the students with various aspects, issues and considerations related to the documentation of architecture and its characteristics so that its heritage and inherent values can be identified and recorded.	To familiarize the students with various aspects, issues and considerations related to the documentation of architecture and its characteristics so that its heritage and inherent values can be identified and recorded.	To familiarize the students with various aspects, issues and considerations related to the documentation of architecture and its characteristics so that its heritage and inherent values can be identified and recorded.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR411	Barrier Free Architecture	2018	The objective of course is to learn the principles of barrier free design and concepts of universal design. It Provides an idea about barrier free construction principles in buildings while understanding of the key aspects and systems of specially able persons built space in architecture.	The objective of course is to learn the principles of barrier free design and concepts of universal design. It Provides an idea about barrier free construction principles in buildings while understanding of the key aspects and systems of specially able persons built space in architecture.	The objective of course is to learn the principles of barrier free design and concepts of universal design. It Provides an idea about barrier free construction principles in buildings while understanding of the key aspects and systems of specially able persons built space in architecture.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAR608	Intelligent Buildings	2018	To introduce the concept of intelligent buildings and to acquaint the student with the factors to be taken into consideration to build an intelligent building and basic concept of Artificial Intelligent and how it is helpful for building construction technologies.	To introduce the concept of intelligent buildings and to acquaint the student with the factors to be taken into consideration to build an intelligent building and basic concept of Artificial Intelligent and how it is helpful for building construction technologies.		https://www.amity.edu/jaipur/1_2_2.aspx
BAR609	Vaastu in architecture	2018	To educate the students on Vaastu Shastra so that our own built environment should be in harmony with the energy of the inmates living in it. To expose the students to the various theoretical and practical aspects of Vaastu Shastra. To familiarize with the ancient mode of designing a building in amalgamation with the latest technologies available.	To educate the students on Vaastu Shastra so that our own built environment should be in harmony with the energy of the inmates living in it. To expose the students to the various theoretical and practical aspects of Vaastu Shastra. To familiarize with the ancient mode of designing a building in amalgamation with the latest technologies available.		https://www.amity.edu/jaipur/1_2_2.aspx
BAR610	Architecture pedagogy	2018	To acquaint students with the history of development of education methods in architecture. To introduce the students with the prevailing models of teaching-learning methods and their application in architectural design education.		To familiarize students with the skills to evaluate architectural design and other art forms. To introduce research methodology, paper writing and presentation as tools to transmit knowledge	https://www.amity.edu/jaipur/1_2_2.aspx
BAR706	Modular Construction Technology	2018	The course of Modular Construction is aimed at focusing on the study of use of pre-fabrication systems, systems developed by CBRI and other agencies, basic modular planning and the proportioning systems and using the skills in designing of buildings. The student will be able to demonstrate knowledge of building construction and management with application of Modular coordination and pre- fabrication concepts in their design.	The course of Modular Construction is aimed at focusing on the study of use of pre-fabrication systems, systems developed by CBRI and other agencies, basic modular planning and the proportioning systems and using the skills in designing of buildings. The student will be able to demonstrate knowledge of building construction and management with application of Modular coordination and pre- fabrication concepts in their design.	The course of Modular Construction is aimed at focusing on the study of use of pre-fabrication systems, systems developed by CBRI and other agencies, basic modular planning and the proportioning systems and using the skills in designing of buildings. The student will be able to demonstrate knowledge of building construction and management with application of Modular coordination and pre- fabrication concepts in their design.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR707	Colors	2018			Learning the use of colours in Architecture. Understanding the impact of colours on humanbeing and making its efficient use in architecture, its component and various products being used in buildings	https://www.amity.edu/jaipur/1_2_2.aspx
BAR708	Bioclimatic Architecture	2018	Aims to introduce concepts of smart and sustainable building design which relates to the respective climatic zone and to provide designers information on how to best to respond to the local climatic context.	The aim of the course is to introduce the students to bioclimatic strategies as an important aspect of sustainable design, to understand in depth the factors affecting thermal comfort and creation of comfort conditions and the building physics associated with it.		https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAR709	Professional Presentation Techniques	2018			To introduce basis language skills for oral professional communication that enables effective technical and professional conversation. Introduce the concept of tonality of the written word as a basic value for selection of terms and their composition in non-spoken forms of professional communication. Orienting students towards developing skills for an effective communication of his/her ideas, as well as to profess the values and ethics of the design profession especially with regards to interaction with people. To help student in developing design portfolio of their own academic projects.	https://www.amity.edu/jaipur/1_2_2.aspx
BAR710	Design of Logo & Signages	2018	To acquaint the students with graphic design of symbols, logos and signage. To familiarize the students towards its application in the field of architecture and built-environment globally	To acquaint the students with graphic design of symbols, logos and signage. To familiarize the students towards its application in the field of architecture and built-environment globally		https://www.amity.edu/jaipur/1_2_2.aspx
BAR905	Product Design	2018	To expose the students to the various theoretical and practical aspects of ergonomics and product design			https://www.amity.edu/jaipur/1_2_2.aspx
BAR906	Cost Effective Architecture	2018	To familiarize the student with cost-effective construction for building economy. To develop an understanding of different issues, types and techniques involved in the design and construction of low-cost structures	To familiarize the student with cost-effective construction for building economy. To develop an understanding of different issues, types and techniques involved in the design and construction of low-cost structures		https://www.amity.edu/jaipur/1_2_2.aspx
BAR907	Prefabrication	2018	To understand the Prefabrication techniques in the residential & industrialized construction and also understanding of prefabricated elements. To familiarize the students with construction method/ techniques used for these elements in building works.	To understand the Prefabrication techniques in the residential & industrialized construction and also understanding of prefabricated elements. To familiarize the students with construction method/ techniques used for these elements in building works.		https://www.amity.edu/jaipur/1_2_2.aspx
BAR1003	Architectural Journalism	2018	Aims to provide foundations for writing about architecture and design. This course deals with the basics of news writing, news structure, editing and presenting and discusses the elements and principals of writing. This course is intended to help those, who have inclination for writing to develop their skills to enable then to record, analyze and evaluate architecture both in its theoretical and practical forms. To understand the process of documenting a project in the field of architecture.	Aims to provide foundations for writing about architecture and design. This course deals with the basics of news writing, news structure, editing and presenting and discusses the elements and principals of writing. This course is intended to help those, who have inclination for writing to develop their skills to enable then to record, analyze and evaluate architecture both in its theoretical and practical forms. To understand the process of documenting a project in the field of architecture.		https://www.amity.edu/jaipur/1_2_2.aspx
BAR1004	Building Economics & Legislation	2018	To understand Architectural projects as an economic function and understanding their evaluation techniques. To help the students for understand the concept of building economics behavior and legislation of buildings with emphasis laid on the principles of various costs & economic performance of building.	To understand Architectural projects as an economic function and understanding their evaluation techniques. To help the students for understand the concept of building economics behavior and legislation of buildings with emphasis laid on the principles of various costs & economic performance of building.	To understand Architectural projects as an economic function and understanding their evaluation techniques. To help the students for understand the concept of building economics behavior and legislation of buildings with emphasis laid on the principles of various costs & economic performance of building.	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BAR1005	Virtual Architecture	2018		To familiarize students with recent trends that led to development of virtual architecture with development of virtual reality and simulation technology . To train students in basic and advance software for architectural visualization	To familiarize students with recent trends that led to development of virtual architecture with development of virtual reality and simulation technology . To train students in basic and advance software for architectural visualization	https://www.amity.edu/jaipur/1_2_2.aspx
MFD102	Design Research Methodology	2019	Through this course process and methodologies of design research implemented	Through this course process and methodologies of design research implemented	To understand the meaning and importance of research To understand the types, tools and methods of research To develop skills in designing and executing research and conduct data gathering. To know the innovative areas in Textile Research	https://www.amity.edu/jaipur/1_2_2.aspx
MFD123	Visual Research & Development	2019			To improve observation and visual expression and interpretation. To develop the sense and language of color To understand the application of color in various forms.	https://www.amity.edu/jaipur/1_2_2.aspx
MFD124	Design technique Weaving	2019	This course enable students to develop advanced designes through Weaving technique		Understand the concept of weaving methods and techniques, mechanism, calculations and costing.	https://www.amity.edu/jaipur/1_2_2.aspx
MFD125	Indian Textile & Semiotics	2019			This course aimed to create awareness about the traditional Indian Textiles	https://www.amity.edu/jaipur/1_2_2.aspx
MFD121	Creative Thinking	2019			To understand design thinking and creativity in design Understand the difference between 2Dimensional and 3Dimensional design and its proper-ties. To understand color and its application through elements and principles of design.	https://www.amity.edu/jaipur/1_2_2.aspx
MFD126	Materials & Technique	2019		To make products in 3D Dimensional using various materials	To study the properties of different types of soft and hard material and utilize according to their utilization. To Understand the requirement of product design as per the consumer and market require-ment.	https://www.amity.edu/jaipur/1_2_2.aspx
MFD150	Design Project – II MINOR Based on design process	2019		To create their own range of fashion related articles	To study the process of making the fashion products which included market research and range development.	https://www.amity.edu/jaipur/1_2_2.aspx
BCS111	Communication Skills – I	2019				https://www.amity.edu/jaipur/1_2_2.aspx
FLN111	French Foreign Language - I	2019				https://www.amity.edu/jaipur/1_2_2.aspx
FLG111	German Foreign Language - I	2019	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
FLS111	Spanish Foreign Language - I	2019	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLSA2111	Spanish Foreign Language - I (Advanced)	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLC111	Chinese Foreign Language - I	2019	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
MFD201	Marketing & Entrepreneurship	2019		The object of subject Entrepreneurship, Management and Organization focuses on the problems, challenges and opportunities of small and medium-sized firms and focused on issues related to the functioning of boards of directors, especially in family-owned companies project and Research method also apply for conducted on financing, innovation, and internationalization and business networks		https://www.amity.edu/jaipur/1_2_2.aspx
MFD202	Textile Processing	2019	To understand the application of preparatory of textile material before coloration and dyeing.		To study various types of dyes and dyeing techniques and its advantages & disadvantages.	https://www.amity.edu/jaipur/1_2_2.aspx
MFD223	Material Management & Sustainability	2019			The main objective of this course is to provide students, the knowledge of latest materials management concepts, to develop expertise in the store and purchase management, establishing best methods of inventory analysis	https://www.amity.edu/jaipur/1_2_2.aspx
MFD224	Computer Aided Design	2019	Using CAD for Pattern making, Portfolio development and presentation	Can do freelancing or jobs related to digital fashion communication.	This course focuses on the usage of Usage of computers in Fashion & Apparel Industry	https://www.amity.edu/jaipur/1_2_2.aspx
MFD222	Textile Processing	2019	To understand the application of preparatory of textile material before coloration and various dyeing process.		To study various types of dyes and dyeing techniques and its advantages & disadvantages.	https://www.amity.edu/jaipur/1_2_2.aspx
MFD250	Design Project-II MINOR Based on design process.	2019		To create their own range of fashion related articles	To study the process of making the fashion products which included market research and range development.	https://www.amity.edu/jaipur/1_2_2.aspx
MFD231	Pattern Manipulation Techniques	2019			The study of this course develops application of Pattern making and sewing techniques in relation to the garment construction This course gives the idea of converting two dimensional block figure into a three dimensional garment.	https://www.amity.edu/jaipur/1_2_2.aspx
BCS211	Communication Skills – II	2019				https://www.amity.edu/jaipur/1_2_2.aspx
FLN211	French Foreign Language - II	2019				https://www.amity.edu/jaipur/1_2_2.aspx

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (30)

Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
FLG211	German Foreign Language - II	2019	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLS211	Spanish Foreign Language - II	2019	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
FLSA2211	Spanish Foreign Language - II (Advanced)	2021				https://www.amity.edu/jaipur/1_2_2.aspx
FLC211	Chinese Foreign Language - II	2019	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/jaipur/1_2_2.aspx
MFD301	Visual Merchandising	2020	Can work as a visual merchandiser in various retail and design organization.	Can do freelancing.	Growth of Visual Merchandising, Scope of visual merchandising, Visual Merchandising as a Support for Positioning Strategy, Challenges in Visual Merchandising, Ways to overcome the visual merchandising challenges	https://www.amity.edu/jaipur/1_2_2.aspx
MFD321	Visual Merchandising (Lab)	2020	Can work as a visual merchandiser in various retail and design organization.	Can do freelancing.	Growth of Visual Merchandising, Scope of visual merchandising, Visual Merchandising as a Support for Positioning Strategy, Challenges in Visual Merchandising, Ways to overcome the visual merchandising challenges	https://www.amity.edu/jaipur/1_2_2.aspx
MFD322	Advance Pattern Grading & Draping	2020	Knowledge about various process and understanding the complex designs to construct garments.	Understanding of construction of garments of more complex garments with fabric selection	The course aims to teach the students to acquire the skill of draping on dress form by introduction to terminology, fundamentals and basic techniques of draping	https://www.amity.edu/jaipur/1_2_2.aspx
MFD323	Research Documentation/Dissertation	2020	This course enables to gather Research Design Sources of Data Sampling and Population and/or relevant qualitative research aspects of the study Instrumentation and Testing	Through Research students enabled to create new product and compile their details	The course aims to understand the nuances of scientific writing and develop skills in collation and presentation of scientific information and to develop skills in conducting a research study/ working in a project and learn the process of writing a dissertation/ project report	https://www.amity.edu/jaipur/1_2_2.aspx
MFD350	Design Project for Apparel	2020	The students will be the core custodians of the project and the onus will be on them from beginning till the end which will develop a sense of ownership and commitment. The students will also learn to keep the deadlines sacrosanct. The project will lead to the development of the designer's skills and knowledge through a process of 'hands on-minds on'	To develop concept and designs based on clients' needs and utility. To explore ideas in Apparel design, develop sense in design, material technique and style. To understand the suitability, trends, market demand in production of range/ product for apparel.	It encourages the synthesis of ideas from both direct and conceptual sources to produce outcomes to satisfy a set design brief. The core idea behind a design project is to develop professional skills of the students and encourage independent thinking	https://www.amity.edu/jaipur/1_2_2.aspx
MFD351	Design Project for Home Furnishing	2020	The students will be the core custodians of the project and the onus will be on them from beginning till the end which will develop a sense of ownership and commitment. The students will also learn to keep the deadlines sacrosanct. The project will lead to the development of the designer's skills and knowledge through a process of 'hands on-minds on'	To develop concept and designs based on clients' needs and utility. To explore ideas in Apparel design, develop sense in design, material technique and style. To understand the suitability, trends, market demand in production of range/ product for home furnishings	It encourages the synthesis of ideas from both direct and conceptual sources to produce outcomes to satisfy a set design brief. The core idea behind a design project is to develop professional skills of the students and encourage independent thinking	https://www.amity.edu/jaipur/1_2_2.aspx
BCS311	Communication Skills – III	2020				https://www.amity.edu/jaipur/1_2_2.aspx

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			Employability	Entrepreneurship	Skill development	
FLN311	French Foreign Language - III	2020				https://www.amity.edu/iaipur/1_2_2.aspx
FLG311	German Foreign Language - III	2020	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/iaipur/1_2_2.aspx
FLS311	Spanish Foreign Language - III	2020	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/iaipur/1_2_2.aspx
FLSA2311	Spanish Foreign Language - III (Advanced)	2021				https://www.amity.edu/iaipur/1_2_2.aspx
FLC311	Chinese Foreign Language - III	2020	International exposure through FL teaching, Opportunities in hotel industry	Create and develop teaching learning institutions	It helps to be a global citizen and gives platform understand cultural and society of a different society, apart from learning Foreign Language	https://www.amity.edu/iaipur/1_2_2.aspx
MFD422	Fashion Portfolio & Design Collection	2020	Develop and showcase of the garments of their final graduation design collection and developing photo gallery	Research and exploration to develop theme for their final collection. It includes development all boards and design collection	Develop an individual design portfolio highlighting strengths in design and related field	https://www.amity.edu/iaipur/1_2_2.aspx
MFD401	Quality Control & Quality Assurance	2020	This course focused towards quality parameters of Textile; Testing of Textile is the application of engineering knowledge and science to measurement of the properties and characteristics of base material for the fashion. Textile Testing provide the knowledge of better material selection and quality control and quality assurance concern	Knowledge of various textile testing parameters and way of controlling and maintain quality standards	Provide better knowledge and understandings of textile testing; Aspect of testing and quality control; Routine test performed in industry; Tests in mill processing and their instruments	https://www.amity.edu/iaipur/1_2_2.aspx
MFD423	Internship with Dissertation	2020	Exposing students in real life working environment as a part of an academic curriculum helps the students to develop and enhance academic, personal and professional competencies	Through this, the students will understand the importance of industrial training which includes: Application of knowledge learned Gain interpersonal skills Get an understanding of how the market functions	Exposing students in real life working environment as a part of an academic curriculum helps the students to develop and enhance academic, personal and professional competencies	https://www.amity.edu/iaipur/1_2_2.aspx
MFD230	Material Management	2019				https://www.amity.edu/iaipur/1_2_2.aspx
MFD330	Material Management	2020				https://www.amity.edu/iaipur/1_2_2.aspx
BFA101	Still Life - I	2018	Through this course, the students shall develop an understanding of basic drawing and sketching; the ability to see, analyze, and understand an art object in its entirety.		Students develop skills of art-making to be able to exhibit and promote their art.	https://www.amity.edu/iaipur/1_2_2.aspx
BFA102	Fundamentals of Fine Arts – I	2018	Through this course, the students shall develop fluency in visual theories. Students shall develop an understanding of the fundamentals of art-making. Students be able to see, analyze, and compare historical and contemporary art techniques and art movements.		Students will develop the ability to receive critiques of their artworks from instructors & peers. Students will develop their own voices as an artist. They shall be able to interpret and engage with existing visual cultures and media.	https://www.amity.edu/iaipur/1_2_2.aspx

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Course Code	Name of the Course	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development			Link to the relevant document
			Employability	Entrepreneurship	Skill development	
BFA103	Graphic Design [2D & 3D Design]- I	2018	Through this course, the students shall be acquainted with the basic principles of design. Students will be able to observe different types of design in different environments.	Students will learn the basics of graphic art as an independent technique of digital art-making and designing.	Students will see how graphic art is an important technique in learning and observation.	https://www.amity.edu/jaipur/1_2_2.aspx
BFA201	Still Life– II	2018	Through this course, students will learn image-making through observation and study of different objects.		Still Life is the basic element of learning art. Object study exercises equip students to acquire the requisite sense of observation and skills for art-making.	https://www.amity.edu/jaipur/1_2_2.aspx
BFA202	Fundamentals of Fine Arts – II	2018	Through this course, students gain an understanding and knowledge of the fundamental elements and principles of art. Students shall be able to analyze, and compare historical and contemporary art techniques and art movements being able to interpret and engage with existing visual cultures and media.		Through this course, students gain an understanding and knowledge of the fundamental elements and principles of art. Students shall be able to analyze, and compare historical and contemporary art techniques and art movements being able to interpret and engage with existing visual cultures and media.	https://www.amity.edu/jaipur/1_2_2.aspx
BFA203	Graphic Design [2D & 3D Design]- II	2018	Through this course, students learn the basic principles of graphic design. The course enables the students to receive critiques of their artworks from their instructors and peers, and become adept as graphic designer.	Through this intermediate-level course, students learn the more advanced techniques of graphic art and learn more about digital art-making and designing.	Through this course, students learn the basic principles of graphic design and become adept as graphic designers.	https://www.amity.edu/jaipur/1_2_2.aspx
BFA802	Portfolio Development & Presentation (Internship)	2017	Students will work in one particular product or company. This exercise helps to perform as a professional Designer.	Students will work in one particular product or company. This exercise helps to perform as a professional Designer.		https://www.amity.edu/jaipur/1_2_2.aspx
BFA803	Portfolio Development & Presentation (Internship)	2017	The students begin working in their own individual style of painting after exercising and experimentation in various techniques of painting medium over the years. The students are to prepare a portfolio which contains a body of work to be presentable for future plans and prospects.	The students begin working in their own individual style of painting after exercising and experimentation in various techniques of painting medium over the years. The students are to prepare a portfolio which contains a body of work to be presentable for future plans and prospects.		https://www.amity.edu/jaipur/1_2_2.aspx



AMITY UNIVERSITY

— R A J A S T H A N —

**Links of Board of Studies (BOS) & Academic
Council (AC)**

https://www.amity.edu/jaipur/1_2_2.aspx

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Course Name	Course Code	LTP	Credit	Semester
MANAGERIAL COMMUNICATION - I	MBA112	1:0:0	1	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the most common selection processes and will be able to perform effectively.
CLO 2	Understand various dos and don'ts of communication especially in online mode.
CLO 3	Exhibit effective communication and demonstrate effective interpersonal behaviour.
CLO 4	Demonstrate effective handling of difficult questions/situations during communication.
CLO 5	Display effectiveness in resume building and identify/rectify most common mistakes.

B. SYLLABUS

Module 1. Understanding process of communication

- o Definition, Nature and Scope of Communication
- o Importance and Purpose of Communication
- o Process of Communication
- o Types of Communication
- o Barriers to Communication

Module 2. Self SWOT and remedies

- o Analyzing Career goals
- o Creating Opportunities
- o Determining the outcomes
- o Taking action

Module 3. Body Language o Personal Appearance

- o Gestures o Postures
- o Kinesics
- o Proxemics
- o Time language
- o Para-Language
- o Tips for Improving Non-Verbal Communication
- o Self-Grooming

Module 4. Reading Skills

- o Definition, Purpose, Process, Methodologies
- o Skimming and Scanning
- o Reading Comprehension
- o Academic Reading Tips
- o Note Taking Strategies

Module 5. Listening Skills

- o Purpose of Listening
- o Active Listening
- o Benefits of Effective Listening
- o Barriers to Listening

Examination Scheme

Components	CA	A	CT	ETE
Weightage (%)	95	5	00	00

Suggested Reading:

- Business Communication, Raman – Prakash, Oxford
- The Oxford Handbook of Commercial Correspondence, Ashley A, Oxford Business Communication for Managers: An Advanced Approach, Penrose, Thomson
- Business Communication, Krizan, Thomson • Understanding Human Communication, 9/e, Adler R Oxford



Course Name	Course Code	LTP	Credit	Semester
MANAGERIAL COMMUNICATION - II	MBA225	1:0:0	1	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Investigate their personal strengths and insights to be revealed in a Formal Setup of Communication.
CLO 2	Create right selection of words and ideas while choosing the appropriate channel of formal communication
CLO 3	Apply acquired knowledge with the appropriate selection of channel of formal communication.
CLO 4	Develop and empower self with the ease of using appropriate medium of communication.

B. SYLLABUS

Module 1. Presentation Skills

- o Essentials of Presentation
- o Strategies of Effective Presentation
- o Effective Verbal Communication

Module 2. Speaking Skills o Speech Organization o Coherence

- o Clarity & Precision
- o Handling Questions

Module 3. Writing Skills

- o Elements of Effective Writing
- o Business Correspondence-Layout & Structure

Module 4. Interview Skills

- o Interview Essentials
- o Types of Interviews
- o Probable Interview Questions
- o Power Dressing

Semester 3 & 4: Targeted Training

Suggested Reading:

- Business Communication, Raman – Prakash, Oxford
- The Oxford Handbook of Commercial Correspondence, Ashley A, Oxford Business Communication for Managers: An Advanced Approach, Penrose, Thomson
- Business Communication, Krizan, Thomson • Understanding Human Communication, 9/e, Adler R Oxford

Examination Scheme

Components	CA	A	CT	ETE
Weightage (%)	95	5	00	00



Course Name	Course Code	LTP	Credit	Semester
AI Technologies	MBA385	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding the basic principles, techniques, and applications of Artificial Intelligence.
CLO 2	understanding of the basic areas of artificial intelligence search, knowledge representation, learning and their applications in design and implementation of intelligent agents for a variety of tasks in analysis, design, and problem-solving.
CLO 3	Develop some familiarity with current research problems and research methods in AI by working on a research or design project.

B. SYLLABUS

Module I: Introduction to AI

Introduction to Artificial Intelligence, categories of common business problems, Employing AI in Business.

Module II: Data Sources

Data Sources (Social Media networks, Business/ Transaction Systems, Government/ Administrative systems, Ubiquitous system), Knowledge Acquisition and representation (Azure ML, Google Cloud, AIML services through AWS anyone can be used).

Module III: Decision Making processes

Decision Making processes

Module IV: Value creation

Value Creation and Competitive Advantage Models, The Role of Data, Information and Knowledge in Value Generation

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50



Course Name	Course Code	LTP	Credit	Semester
Big Data Analytics	MBA386	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the fundamentals of Big Data and its Applications in various Domains.
CLO 2	Conceptualize and Incorporate the Technologies behind Big Data.
CLO 3	Understand HDFS File Structure, Map Reduce Framework, the architectures related to them and to use them to solve complex problems.
CLO 4	Integrate R with Hadoop and solve analytical problems.
CLO 5	Understand and Use Hive/Hbase shell pertaining to relational data handling under Hadoop.

B. SYLLABUS

Module 1: Introduction to Big Data, Big data Analytics

Definition of Big Data, Applications of Big Data, Data Science and its application,

Module 2: Data Lifecycle: Data Deployment Approach, Internal data management process, big data internal advancements, maturity gap, Data Science application to Business

Key Data Challenges to Strategic Business Decisions

Module 3: Data Security, Ethics, issues related to data ownership, Fair data treatment, Proper data management in special cases (Merger, Growth, Acquisition etc.), emerging Markets

Module 4: Data Analytics for Big Data-Data Presentations, Descriptive statistics, Introduction to various big Data tools and Techniques, Big Data Modeling and Management Systems

Module 5: Future Data Trends

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Books:

1. Big Data Analytics: A Management Perspective, Corea, Francesco, 2016
2. HBR Guide to Data Analytics Basics for Managers (HBR Guide Series)
3. Business Analytics for Managers, Jank, Wolfgang, 2011



Course Name	Course Code	LTP	Credit	Semester
Business process Automation	MBA387	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Learn how to improve productivity in your organization by automating some of your processes.
CLO 2	learn how to identify the processes that are fit for automation and develop a plan for it.

B. SYLLABUS

Module 1: Detailed Process Mapping for Implementation

What is the difference between an analytical and an implementable process model? How are graphical models translated to XML? How do computers understand processes? Components of Workflow Models From BPMN to BPEL.

Module 2: Technology Platforms for Process Automation

Support processes with IS, What are the components of a process-aware application? BPMS and Workflow Systems Components and Architecture

Module 3: Process Implementation and Roll-Out

How do you change the way people work? Change Management, Process Implementation Alternatives: Manual Implementation, Workflow & Business Process Management Systems, Complex Adaptive Work Systems, Process Outsourcing

Module 4: Managing the Run-Time, Business Activity Monitoring

How do we capture decision-making activities? BPMS and BRMS, Decision Rules and Decision Tables, SBVR, How do you ensure that the best performer does the job? Organization models: Task allocation strategies, Mobile performers
External Participants

Module 5: Post-Execution Evaluation and Continuous Improvement

Process Metrics, Business Activity Monitoring, Process Dashboards Business Intelligence based on Process Data, Process Audit Logs Data Mining based on Process Data, Mining of Process Structures from Logs Frequencies and probability distributions, Attributes of process simulations, Design of simulation models

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50



Course Name	Course Code	LTP	Credit	Semester
DATA SCIENCE PRODUCTS	MBA388	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	understand the data science, its properties and various related behaviors which they can use to develop their data science applications for solving real world problems.
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B. SYLLABUS

Module-I

Concepts of Data science products, their benefits, and challenges, Steps to build a data science product from planning, demand analysis, features to deployment. Identify the domain where data science product can benefit the society.

Module-II

Tools available for Data Science product development. R Shiny for data science product development. Static and dynamic data science products. Dashboards as a data science product. Build Shiny app, Standalone apps, Interactive documents, Dashboards, Gadgets, Backend, Reactivity, Frontend, User interface, Graphics & visualization, Shiny extensions, Customizing Shiny.

Module-III

No-code AI will make AI/ML accessible, Augmented Analytics to transform Business Intelligence, AI-powered Automation, Artificial Intelligence (AI) for Cybersecurity and Data Breach, Smart Cities, Smart healthcare, Smart retail, etc.

Module-IV

AI-powered chatbots, Conversational AI, or AI-powered chatbots, improves the reach, accessibility, and personalization of the consumer experience. Conversational AI solutions, according to Forrester, result in improved customer service automation.

Module-V

3 Real world case studies

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text and References:

- Emmanuel Ameisen. Building Machine Learning Powered Applications: Going from Idea to Product 1st Edition. O'Rielley Publishing.
- Hadley Wickham, and Garrett Grolemund. R for Data Science: Import, Tidy, Transform, Visualize, and Model Data 1st Edition. O'Rielley
- Brett Lantz. Machine Learning with R: Expert techniques for predictive modeling, 3rd Edition. Packt Publishing.
- Peter Bruce, Andrew Bruce. Practical Statistics for Data Scientists: 50+ Essential Concepts Using R and Python (2020). O'Rielley Publishing.



DATA SCIENCE WITH R	MBA452	2:1:0	3	4
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	understand the data science and various related techniques
CLO 2	Develop data science applications for solving real world problems.

B. SYLLABUS

Course Contents

Module-I

Analyze data, mean, mode, data types, basic data analysis functions such as str, nrow, ncol, mean, mode, class, etc., Parametric and non-parametric data, Advantages of Parametric Tests, ANOVA, T-Test, F-test, Z-test, Wilcoxon-Test, Importance of them, Import and export of various types of data files in R. How to read web data, social media data. Basic data plotting.

Module-II

Missing values and their effects on data, Outliers and their effects on data, Importance of identifying missing values and outliers. Classical methods to identify missing values and outliers. Conditions to replace missing values and outliers, Conditions to delete missing values and outliers.

Module-III

Linear regression, multiple linear regression, non-linear regression, When to do linear and non-linear regression, Performance evaluation of regression results. Logistic regression, Analyze the prediction results using various statistics of confusion matrix such as accuracy, sensitivity, specificity, etc. Visualize confusion regression results.

Module-IV

Supervised learning: Classification and regression using Support Vector Machine, Random Forest, Neural Networks, Naive Bayes, and Decision Trees supervised machine learning algorithms. Performance evaluation and parameter tuning to improve results.

Module-V

Unsupervised Learning: K-Means Clustering, Density-Based Spatial Clustering of Applications with Noise (DBSCAN), Expectation–Maximization (EM) Clustering etc. Principal component Analysis. Determination of the number of clusters. Performance evaluation metrics such as Root-mean-square standard deviation (RMSSTD) of the new cluster, R-squared (RS), Dunn's Index (DI).

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text and References:

- Hadley Wickham, and Garrett Grolemund. R for Data Science: Import, Tidy, Transform, Visualize, and Model Data 1st Edition. O'Rielley
- Brett Lantz. Machine Learning with R: Expert techniques for predictive modeling, 3rd Edition. Packt Publishing.
- Peter Bruce, Andrew Bruce. Practical Statistics for Data Scientists: 50+ Essential Concepts Using R and Python (2020). O'Rielley Publishing.



DATA VISUALIZATION	MBA453	2:1:0	3	4
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding of the key techniques and theory used in visualization, including data models, graphical perception and techniques for visual encoding and interaction.
CLO 2	Learn common data domains and corresponding analysis tasks, including working on Python, R and Tableau.

B. SYLLABUS

Module I: Data Types in AI

What is Data and types of data in terms of AI (Numerical, Categorical, Time series and text), How can this data be used. Different types of Data Objects

Module II: Understanding of data

Understanding visual metrics, mean, median, mode, measures of dispersion

Module III: Working with Data

Hands on experience (Azure ML, Google Cloud, AIMA services through AWS anyone can be used). Loading of Data, visualization of data (Box Plot, Scatter plot and pivot Table), Data manipulation. Decision Trees, Bagging, Random Forests, Boosting

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50



BLOCKCHAIN TECHNOLOGIES AND APPLICATION	MBA454	2:1:0	3	4
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To give students the understanding of emerging abstract models for Blockchain Technology and to familiarise with the functional/operational aspects of cryptocurrency eco-system.
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B. SYLLABUS

Module I

Introduction

Block chain technology - Concept, overview and advantages, Block Chain Ecosystem - Key elements-Replicated Ledger, Cryptography, Consensus, and Business Logics, Networks- Permissioned & Permission less, Public & Private;

Module II

Block Chain mechanism

How does block chain work?. Block Chain protocols- Proof of Work (PoW), Proof of Stake (POS and DPOS), Hybrid PoW, Hierarchical, Partitioned and Randomized. Practical Byzantine Fault Tolerance, challenges faced by Block chain technology

Module III

Block Chain Application in Business

Block chain usage in Financial Sector; Crypto-currency-Bitcoin, Ethereum,& Trading, Usage in Marketing-Retail, New Product Development, Operations- Supply Chain Management

Module IV

Block Chain Application in Public Sector

Block technology application for Government, public services- Healthcare, Education, Public Safety, Agriculture, Voting, Civil registrations and defense.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Narayanan A., Bonneau J., Felten E., Miller A. and Goldfeder S. (2016), *Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction*, Princeton University Press, https://www.ljpp.net/pdf/princeton_bitcoin_book.pdf
- Wattenhofer (2016), *The Science of the Blockchain*, Inverted Forest Publishing
- Vigna & Casey (2018) *The Truth Machine: The Blockchain and the Future of Everything* ISBN: 9781250114570.
- Lewis A (2019), *The Basics of Bitcoins and Blockchains: An introduction to cryptocurrencies and the technology that powers them*, Mango Media

Anandam – I

Course Code: AND001

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam -II

Course Code: AND002

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam – III

Course Code: AND003

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam – IV

Course Code: AND004

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam- V

Course Code: AND005

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam- VI

Course Code: AND006

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam – VII

Course Code: AND007

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam- VIII

Course Code: AND008

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.

Anandam- IX

Course Code: AND009

Credit Units: 02

Course Objective/s:

The Course aims to instil the joy of giving in young students, turning them into responsible citizens who will build a better society. Through daily action, it will build the habit of service in students. During the course period, students will be expected to engage in individual and group acts of service and goodness.

Course Contents:

Students are expected to:

- i. Do at least one act of individual service each day
- ii. Record the act of service in dedicated Register/Personal Diary (PD)
- iii. Share the register/ PD in the time slot dedicated by the college
- iv. Undertake one group service project for 64 hours every term (outside college hours)
- v. Upload report on the group project on the Anandam platform
- vi. Participate in sharing and presentation discussions scheduled by department.

Faculty Coordinator will review the students' Register/PD if they recorded an act of goodness for that day. It will not be evaluated but just checked whether recorded or not. In this way student will finish portfolio of giving.

Examination Scheme:

- Register/PD: Minimum 32 entries (40%) and maximum 80.
- Project Participation: 2 hours X 8 days (per month) X 4 months = 64 hours

Credits	Evaluation Matrix and Grading (Total 64 hours)
02	32 hours : Grade C
	>32 to <44 : Grade B
	>44 to <= 54: Grade A
	>54 to <= 64: Grade O

Evaluation Criteria:

In order to be eligible for credits, the students are expected to complete a minimum of 32 entries (40%) per semester in their Register/PD. For being eligible to special awards, all the group members are expected to have completed a minimum of 48 entries (60%) per semester.

The students will get an option to submit their projects for an award and recognition at department, university and state-level after review by competent committees respectively.



Course Name	Course Code	LTP	Credit	Semester
E-Commerce and Online Business Model	MBA331	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstrate an understanding of the foundations and importance of E-commerce.
CLO 2	Identify the major electronic payment issues and options. Analyze the impact of E-commerce on business models and strategy
CLO 3	Discuss security issues and explain procedures used to protect against security threats
CLO 4	Aware about the automation of business through electronic media and different technologies.
CLO 5	To help the students with a view to emulate, entrepreneurial ventures in e-commerce and m-commerce.

B. SYLLABUS

Module1: Introduction

Electronic Commerce (Overview, Definitions, Advantages, Issues & Constraints, Features), Myths allied with E-Commerce, E-Commerce Vs E-Business, Role of E-Strategy, Value Chain in E-Commerce, E-Commerce Business Models, Managerial Prospective in E-Commerce

Module 2: E-Business revenue model and Selling to Consumer online

Revenue Models, Revenue Strategy Issues, Web marketing strategy, Communicating with different market segment, Advertising on the web, E-Mailing marketing, Technology –Enabled Customer Relationship Management (E-CRM), Creating and Maintaining Brands on the Web, Search Engine Positioning and Domain names,

Module 3: Selling to Business online

Introduction, Purchasing, Logistics and support activities, Electronic Data Interchange, Supply chain Management using Internet Technology, Electronic Marketplace and Portals, Virtual Communities-Mobile Commerce and Online Auctions.

Module 4: Technologies for Electronic Commerce

E-Business Law and Taxation, Electronic Commerce Software for small, midsize and large business, Online Security, Online Payment System-E-Cash, E-Wallet, Stored value cards, Internet Technology and Banking Industry, Criminal Activity and payment System.

Module 5: Implementation E-Business Initiatives

Identifying Benefits and Estimating Cost of Electronic Commerce Initiatives, Strategies for developing E-commerce web site, managing e-commerce Implementations, Knowledge Management and ERP(Enterprise Resource Planning).

Module 6: How Internet companies use digital business model

Business Plan Presentation and Demonstration “Materializing e-Business: From Idea to Realization”, concept of the Digital Business Models to analyze how Apple, Google, Facebook, Amazon and several other internet-era incumbents are using digital business models to create, deliver, capture and defend value.

Examination Scheme:

Components	Class Test	Project	Lab Assignment	Attendance	EE
Weightage (%)	15	20	10	5	50

Text & References:

Text:

- Gary P. Schneider, E-Commerce: Strategy, Technology and Implementation, 9th ed. (2012), Cengage Learning.

References:

- Bajaj ,Kamblesh and Nag Debjani , E-Commerce: The Cutting Edge of Business , 1st ed.(2000).McGraw Hill
- Joseph P.T. and S.J., E-Commerce: An Indian Perspective, 3rd ed. (2008).PHI
- Electronic Commerce – A manager’s Guide, Ravi Kalakota& Andrew B. Shinston, Pearson Education.



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— R A J A S T H A N —

- Electronic Commerce - Technologies & Applications, Bhaskar Bharat, Tata McGraw Hill.
- Global E-Commerce, University Press, J. Christopher & T.H.K. Clerk.



Course Name	Course Code	LTP	Credit	Semester
Digital Marketing Strategies	MBA332	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Evaluate and apply key concepts related to digital marketing including consumer behaviour, online marketing communications, and social media marketing.
CLO 2	Critically assess role that digital marketing can play in business strategy.
CLO 3	Plan and compose tactical marketing decisions as a group considering effective product, pricing, distribution and promotion decisions as necessary to meet the needs of a client brief.
CLO 4	Reflect on the practical implementation of a digital marketing strategy and role within the group work from a critical and evaluative individual perspective.

B. SYLLABUS

Module 1: Fundamentals of Digital Marketing

Introduction to Digital Marketing

Evolution of Digital Marketing

Digital Marketing Framework

Value Chain Digitization

Module 2: The Digital Economy

The Connected Customer

The Influential Digital Subculture

Marketing in the Digital Economy

Industry Archetypes and Best Practices

Module 3: Digital Marketing Strategy Development

Digital Marketing Assessment Phase

Digital Marketing Strategy Definition

Digital Marketing Communication & Channel Mix

Digital Marketing Operation Set up

Module 4: Digital Marketing Strategy Execution

Basic Elements of Digital Campaigns Management

Implementing Intent Based Campaigns

Implementing Brand Based Campaigns

Managing Digital Implementation Challenges

Module 5: Digital Marketing Landscape

Digital Marketing – Global Landscape

Digital Marketing – The Indian View

Digital Marketing – Emerging Trends & Concepts

Career in Digital Marketing

Textbooks

A. Bhatia, P. S., (2017), Fundamentals of Digital Marketing, Pearson

B. Kotler, P., (2017), Marketing 4.0 – Moving from Traditional to digital, Wiley



Course Name	Course Code	LTP	Credit	Semester
Digital Branding and Engagement	MBA333	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Examine how marketing, operations, and human resources interact in real-time delivery.
CLO 2	Demonstrate cognitive knowledge of the skills needed to do online research and market research, as well as discover, evaluate, and choose digital market prospects.
CLO 3	Using applicable marketing theories and frameworks, explain emerging trends in digital marketing and critically evaluate the usage of digital marketing and engagement tools.
CLO 4	Research and assess difficulties related to adjusting to globalised marketplaces that are continually evolving and becoming increasingly networked.
CLO 5	Examine the traditional marketing mix in light of a growing and diverse set of digital strategies and approaches.

B. SYLLABUS

Module 1: Digital Branding in Perspective

Introduction to Digital Branding
 Digital Branding Vs. Digital Marketing
 The Strategic Role of Digital Branding
 Understanding Paid, Owned, Earned Media

Module 2: Building Consumer Engagement

Introduction to Consumer Engagement; Levels of Engagement
 Participation Branding & Engagement
 Understanding and Building Brand Advocacy
 Branded Mobile Apps

Module 3: Building Brand Attraction & Curiosity

Understanding Humans Using Social Anthropology
 Building Six Attributes of Human Centric Brand
 Building Brand Curiosity with Content Marketing

Module 4: Building Brand Commitment & Affinity

Omnichannel Marketing for Brand Commitment
 Omnichannel Marketing Process
 Enhancing Digital Experience with Mobile Apps
 Providing Solutions With Social CRM
 Driving Desired Behavior with Gamification

Module 5: Digital Brand Strategy & Measurement

Measuring Digital Branding
 Digital Branding Dashboard
 Digital Engagement Scorecard

Examination Scheme:

Components	A	CI	CA	EE
Weightage (%)	05	15	30	50

Textbooks

- Rowles, D. (2017), Digital Branding: A Step by Step Guide to Strategy, Tactics, Tools and Measurement, Koganpage
- Kotler, P., (2017), Marketing 4.0 – Moving from Traditional to digital, Wiley



Course Name	Course Code	LTP	Credit	Semester
Digital Marketing Analytics	MBA334	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Describe and identify different concepts of Digital Marketing Analytics
CLO 2	Recognize and identify various strategies to take advantage in market
CLO 3	Analyze and Implement the various concepts
CLO 4	Use critical thinking to analyse management challenges through learning and study, individually or in a group.

B. SYLLABUS

Module 1: Introduction to Digital Analytics

Overview of Digital Media Landscape
Understanding Digital Analytical Concepts
Overview of Analytical Tools

Module 2: Analyzing Intent

Social Media Listening
Search Analysis
Audience Analysis

Module 3: Analyzing Engagement

Content Analysis
Engagement Analysis
Mobile Analysis

Module 4: Web Analytics

Standard Web Metrics
Bounce Rate
Exit Rate
Conversion Rate

Module 5: Leveraging Digital Analytics

Measuring Return on Investment
Understanding Digital Influence
Improving Customer Services
Building & Delivering Reports

Examination Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Textbooks

- Hemann, C., Burbary, K. (2019), Digital Marketing Analytics, Pearson Education
- Kaushik, A., (2010), Web Analytics 2.0 The Art of Online Accountability & Science of Customer Centricity, Wiley



CONTENT MARKETING	MBA442	2:1:0	3	4
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Describe and identify different concepts of Content Marketing
CLO 2	Recognize and identify various strategies to take advantage in market
CLO 3	Analyze and Implement the various concepts
CLO 4	Use critical thinking to analyse management challenges through learning and study, individually or in a group.

B. SYLLABUS

Module I: Introduction

Nature and scope of content marketing; Digital Marketing Concepts; Forming a Mission statement; Application of Content Marketing. Selecting a Niche, Identifying your Unique propositions.

Module II: Organizations' content niche

Selecting a Niche, Identifying your Unique propositions, Identifying a target Audience, Naming Primary & Lower- level Goals. Forming a Core Message and Secondary Messages.

Module III: Content marketing plan

Performing a Competitive Analysis, Generation of content ideas using social media, newsjacking, brainstorming and mind mapping, and keyword search, Building Your Brand, Client Management.

Module IV: Content editorial calendar

Creating and Using an Editorial Calendar, Establishing an Online Footprint, Starting with a Blog, Writing for the Web, Understanding the Importance of Images, Audio, and Video, Collecting Content Ideas, Setting Up Google Alerts.

Module V: Optimizing your content

Purpose of your content, lifecycle of the content, when & why to change for your content, Creating Opportunities.

Module VI: Strategic types of Content

Exploring the various types of strategic content, Identify and define the four types of strategic content: attraction content, affinity content, action content, and authority content.

Examination Scheme:

Components	CPA	T	Q/S/CA	A	ME	EE
Weightage (%)	5	1	5	5	15	70

Text & References:

- Pulizzi, Joe Epic, Content Marketing: (2014), How to tell a Different Story, Break Through the Clutter, and Win more Customers by Marketing Less,- McGraw-Hill Education.
- GerardusBlokdyk, Content Marketing (2019) Practical tools for self- assessment, Publisher- 5star cooks.
- Ramos Andreas, The Big Book of Content Marketing (2013) Kindle edition.
- Wilson Pamela, Master Content Marketing (2016) A simple strategy to cure the Blank Page Blues and Attract a Profitable Audience, Kindle edition.
- Rebecca Lieb, Content Marketing (2012) Think like a publisher- How to use Content to Market online and in Social Media, Pearson Education.
- Gupta, Seema(2019), Digital Marketing- McGraw Hill Education(India) Private Limited, India.
- Kotler, P., Keller, K. L., Koshy, A. & Jha, M. (2013), Marketing Management– A South Asian Perspective, 14th Ed, Pearson India
- Lamb, C. W., Hair, J. F., & McDaniel, C. (2015). Mktg, 8th Ed, Cengage Learning.
- Etzel, M. J., Walker, B. J., Staton, W. J., & Pandit, A. (2008). Marketing Concepts and Cases, 13th Ed, Tata McGraw Hill (Special Indian Edition).
- Czinkota, M. (2010). Marketing Management, 10th Ed, Cengage Learning.
- Kazmi, S. H. H. (2007). Marketing Management – Text and Cases, 1st Ed, Excel Books.
- Kumar, A., & Meenakshi, N. (2010). Marketing Management, 2nd Ed, Vikas Publishing House.
- Zikmund, W. G., & D'Amico, M. (1998). Marketing: Creating and Keeping Customers in an Ecommerce World, 6th Ed, South-Western College Publication



Consumer Behavior in Digital World	MBA443	2:1:0	3	4
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding Consumer Behaviour and the Emergence of Digital Native's Behavior
CLO 2	Understanding Individual Consumer in Digital world

B. SYLLABUS

Module 1: Understanding Consumer Behaviour and the Emergence of Digital Native's Behavior

Explain the meaning and emergence of consumer behavior, Consumer behavior and marketing strategy, identify with the concepts of the future of consumer behavior, How Digital Marketing is changing Consumer Behavior, understanding digital natives, Understand the difference between digital natives and physical natives.

Module 2: Understanding Individual Consumer in Digital world

Understanding the Impact and management of Perception, Learning, Motivation, Beliefs, Values, Lifestyle, Attitude, and Personality in digital environment

Module 3: Impact of society on Consumer behavior in a Digitally connected world

Influence of Family, Reference Groups, Cultural & cross cultural, Influence aspects on Consumer behavior in the world of intense digital media usage by consumers

Module 4: Consumers Decision in the era of connected objects

Decision-making in new digital age. Influence of Digital, Social Media, and Mobile on consumer behavior. Social media marketing and optimization. Luxury and Consumer Behavior. Containing and Navigating Consumer Negativity in the Digital World.

Examination Scheme:

Components	CPA	T	Q/S/CA	A	ME	EE
Weightage (%)	5	1	5	5	15	70

Text:

Varsha Jain, Jagdish Sheth, Don E. Schultz, Consumer Behavior - A Digital Native, 1st ed, Pearson

Reference:

Manish Grover, Dancing the Digital Tune: The 5 Principles of Competing in a Digital World, CD Press, ISBN: 978-0692358740

Doug Stephens, Reengineering Retail: The Future of Selling in a Post-Digital World, Figure 1 Publishing, ISBN: 978-1927958810



Course Name	Course Code	LTP	Credit	Semester
DIGITAL MARKETING	MBA376	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To familiarize students with key aspects of digital marketing.
CLO 2	Develop knowledge in digital marketing domain and help students to develop an understanding of the framework within online marketing businesses and its operations.

B. SYLLABUS

Module I: Introduction

Introduction to Digital Marketing; Objectives of Digital Marketing; Marketing in Digital Economy; Influential Digital Subcultures; Digital Marketing Strategy;

Module II: Search Marketing & Search Advertising

Search Engine Optimization; Organic & Paid Search Results; Overview of Google AdWords; Keyword Research and analysis; Tracking the success of SEM; Search Engine Optimization techniques; On-page & Off-page optimization; Search Advertising: Basic Concepts; Elements of Search Ad; Managing Pay Per Click Process

Module III: Social Media Marketing & Digital Display Advertising (DDA)

Different Social Media Channels; Social Media Marketing (SMM) Process; Managing and Analyzing SMM Process; Key Stakeholders in Digital Display; Managing DDA Process

Module IV: Email & Mobile Marketing

Email Strategy & Planning; Advantages & Challenges of Email Marketing; Managing Email Marketing Process; Understanding Mobile Marketing; Mobile Messaging Channels; Mobile Commerce; Managing Mobile Marketing Process

Module V: Affiliate & Video Marketing

Affiliate Marketing: Basic Concepts, Building Blocks of Affiliate Marketing; Video Marketing: Basic Concepts, Video Production & Promotion; Content Marketing: Basic Concepts, Strategic Building Blocks of content Marketing

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & Reference Books

- Ian Dodson (2016), The Art of Digital Marketing, 1st Edition, Wiley
- Stokes, B., (2013), E-marketing: The essential guide to marketing in a digital world, 5Edition, Quirt E-marketing Pvt Ltd.
- Kotler, P., Kartajaya, H., & Setiawan, I.,(2017), Marketing 4.0: Moving from Traditional to Digital, 1st Edition, Wiley
- Chaffey, D., & Smith, PR., (2008), E-marketing Excellence, 3rd Edition, Elsevier



Course Name	Course Code	LTP	Credit	Semester
BUSINESS MODELING and Analytics	MBA211	2:0:2	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Learn Creating effective spreadsheets
CLO 2	Learn Managing large sets of data
CLO 3	Mastering the use of some of Excel's most popular and highly sought after functions (SUM, VLOOKUP, IF, AVERAGE, INDEX/MATCH and many more...)
CLO 4	Create a dynamic report with Excel PivotTables
CLO 5	Understand the power and versatility of Microsoft Excel's AddIn, PowerPivot
CLO 6	Analyze Excel Worksheet formulas to ensure clean formulas

B. SYLLABUS

Module I: Introduction to Spreadsheet Modeling and Excel Functions

Basic of excel functions, Variable Identification, Conversion of financial information in spreadsheet, Spreadsheet Modeling

Module II: Deciphering Drivers and Financial Information

Understanding inter-relation among financial statements, Identifying and analyzing industry drivers, Defining financial variables, Development of Assumption Sheet

Module III: Development of Business Model

Development of financial and business model using Excel functions and Linking sheets, Analysis of financial and business model using excel functions, Sensitivity Analysis and Scenario Building, Discounted Cash Flow (DCF) Analysis and Valuation

Examination Scheme

Components	CA	A	CT	ETE
Weightage (%)	95	5	00	00

Text & References:

- Benninga, S. (2000), Financial Modeling, 2nd Ed, MIT Press
- Financial Management: Theory & Practice by P. Chandra, 2008, Tata McGraw Hill Publishing Company Limited



Course Name	Course Code	LTP	Credit	Semester
CORPORATE SOCIAL RESPONSIBILITY	BBA 382	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Introduction and historical information on Microorganisms and their use in different industries
CLO 2	Acquire industrial skills of microbial culture, growth, and practices
CLO 3	Demonstrate the advanced application of Microbes in emerging industrial sectors

B. SYLLABUS

Unit-1: Introduction to CSR

Meaning and Definition, History of CSR, Concepts of Charity, Corporate philanthropy, Corporate Citizenship, Sustainability and Stakeholder Management. Environmental aspect of CSR
Chronological evolution and Models of CSR in India Carroll's model Major codes on CSR Initiatives in India.

Module II: CSR-Legislation in India and the World

Section 135 of Companies Act 2013.Scope for CSR Activities under Schedule VII, Appointment of Independent Directors on the Board, and Computation of Net Profit's Implementing Process in India.

Module III: The Drivers of CSR in India

Market based pressure and incentives, civil society pressure, the regulatory environment in India
Counter trends, Review of current trends and opportunities in CSR, Review of successful corporate initiatives and challenges of CSR. Case Studies of Major CSR Initiatives

Module IV: Identifying key stakeholders of CSR

Role of Public Sector in Corporate, government programs, Nonprofit and Local Self Governance in implementing CSR, Global Compact Self-Assessment Tool, National Voluntary Guidelines by Govt. of India, Roles and responsibilities of corporate foundations.

Module V: Review current trends and opportunities in CSR. and Corporate Governance

CSR as a Strategic Business tool for Sustainable development. Review of successful corporate initiatives & challenges of CSR. Case Studies of Major CSR Initiatives. Corporate Governance

Evaluation:

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

William B. Werther Jr. and David Chandler, *Strategic Corporate Social Responsibility: Stakeholders in a Global Environment, Second Edition*, Sage Publications, 2011

Sanjay K Agarwal, *Corporate Social Responsibility in India*, Sage Publications, 2008

Corporate Social Responsibility: Concepts and Cases: The Indian - C. V. Baxi, Ajit Prasad

Mallin, Christine A., *Corporate Governance (Indian Edition)*, Oxford University Press, New Delhi.



Blowfield, Michael, and Alan Murray, Corporate Responsibility, Oxford University Press.

Francesco Perrini, Stefano, and Antonio Tencati, Developing Corporate Social

Responsibility-AEuropean Perspective, Edward Elgar. University of Delhi.

Sharma, J.P., Corporate Governance, Business Ethics & CSR, Ane Books Pvt Ltd, New Delhi.

Course Name	Course Code	LTP	Credit	Semester
ENVIRONMENT STUDIES	EVS001	4:0:0	4	3



Course Name	Course Code	LTP	Credit	Semester
FINTECH AND NEW INITIATIVES	BBA 383	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Provides comprehensive overview of the FinTech space - technologies, the applications and the startup ecosystem
CLO 2	Appreciate the role of technology in financial services and how it can provide solutions to key corporate challenges.
CLO 3	3Develop an understanding of how FinTech is reconfiguring financial services business models and how they are different from the traditional business models
CLO 4	Distinguish between financial and industrial innovation and the regulatory framework, the pros and cons of financial innovation,
CLO 5	Understand the FinTech entrepreneurial landscape and the opportunities and challenges associated with startup cycle.

B. SYLLABUS

Module I: Introduction to FinTech and related innovation

Introduction to digitization and mechanics and the impact on the financial system. Overview of multiple technology based financial innovation over the time. Pros and cons of FinTech.

Module II: Artificial intelligence & technology

Introduction to Artificial intelligence platforms: Machine learning, Application Programming Interface (API): tools and processes.

Robo Advisory: Robo-advisory Platforms and Architecture, Building a Robo Advisory Platform, Unicorns of Robo-advisory and business models, State of Robo-advisory in India

Module IV: Banking, Payment and Credit

BFSI Value chain, Issues with traditional banking, Introduction to BankTech, online and digital banking, KYC, Credit cards, credit scoring and alternative data, market place learning, Payment system: payment methods and trends. Financial inclusion and FinTech

Module IV: Investments & Digitization

Crowdfunding - Regards, Charity and Equity, asset allocation using technology, FinTech in capital market. Cryptography, Block chain technology. InsureTech: Visual computing, sensor and telematics, pricing, underwriting, claim settlement and policy administration using technology

Cryptocurrencies Primer, Bitcoin and Applications, Cryptocurrencies and Digital Crypto Wallets, Types of Cryptocurrencies, Cryptocurrencies and Applications, Initial Coin Offering (ICO), Importance of ICO in Alternative Finance.

Module V: Privacy & Financial Data

Encryption and information security, disruptive technology cases, Cyber security, fraud, crime, law enforcement. FinTech operational, technology and regulatory risk. Policy implication. Regulations for Cryptos and tokens.

Examination Scheme

Components	CPA	T	Q/S/CA	A	ME	EE
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Weightage (%)	30	-	-	5	15	50
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Text & References:

- Agustin Rubini, “Fintech in a Flash: Financial Technology Made Easy”, Zaccheus, 3rd Edition, 2018
- Susanne Chishti and Janos Barberis, “ The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries”, John Wiley, 1st Edition, 2016
- Theo Lynn, John G. Mooney, Pierangelo Rosati, Mark Cummins, “Disrupting Finance: FinTech and Strategy in the 21st Century”, Palgrave, 1st edition, 2018
- Abdul Rafay, “FinTech as a Disruptive Technology for Financial Institutions”, IGI Global, January, 2019
- Bernardo Nicoletti , The Future of FinTech: Integrating Finance and Technology in Financial Services, Palgrave Macmillan, August, 2018



Course Name	Course Code	LTP	Credit	Semester
RURAL MARKETING	BBA 494	2:1:0	3	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To introduce rural market dynamics to the students
CLO 2	Learn about rural behaviour and factor that differs from urban market

B. SYLLABUS

UNIT – I : RURAL ECONOMY & DEVELOPMENT :

Rural Economy – Rural – Urban disparities – policy interventions required – Rural face to Reforms – The Development in the last few decades.

UNIT – II : RURAL MARKETING & RURAL BUYING DECISION PROCESS :

Rural Marketing – Concept and Scope – **Nature of Rural Markets** – Attractiveness of Rural Markets – Rural Vs Urban Marketing - Characteristics of Rural Consumers – Buying Decision Process – Potential and Size of the Rural Markets.

UNIT – III : PRODUCT MIX DECISIONS :

Product Strategy – **Product Mix Decisions – Decisions Involved in Product, Branding, Packaging, Product Line and Product Mix** Decisions. New Product Development, Product Life Cycle, Competitive product strategies for Rural Markets.

UNIT – IV : PRICING & PROMOTION STRATEGY :

Pricing Strategy – **Pricing Policies** – Innovative pricing methods for Rural Markets – Promotion Strategy – Appropriate Media – Designing Right Promotion Mix – Promotional Campaigns.

UNIT – V : RURAL DISTRIBUTION :

Distribution – Problems encountered – Selection of appropriate channels – New approaches to reach out rural markets – Electronic applications. **Rural Marketing Information System.**

Evaluation:

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

1. Balaam Dogra & Karminder Ghuman, Rural Marketing: Concept & Cases, Tata McGraw Hill Publishing Company, New Delhi.
2. CSG Krishnamachary & Lalitha Ramakrishna, Rural Marketing, Pearson Education, Asia



3. A K Singh & S Pandey, Rural Marketing, Indian Perspective, New Age International Publishers
4. Philip Kotler, Marketing Management, Prentice –Hall India Ltd, New Delhi
5. Ruddar Dust Sundaram, Indian Economy, Tata McGraw Hill Publishers, New Delhi

BASICS AND STRATEGIES OF DIGITAL MARKETING

Course Code: BBA 513

Credit Units: 03 L:2, T:1,P/FW:0 C:03

Course Objective:

This course has been designed with an objective to familiarize students with key aspects of digital marketing. The course aims to provide working knowledge in digital marketing domain and help students to develop an understanding of the framework within online marketing businesses and its operations.

Course Contents:

Module I: Introduction

Introduction to Digital Marketing; Objectives of Digital Marketing; Marketing in Digital Economy; Influential Digital Subcultures

Module II: Search Marketing & Search Advertising

Search Engine Optimization; Organic & Paid Search Results; Overview of Google AdWords; Keyword Research and analysis; Tracking the success of SEM; Search Engine Optimization techniques; On-page & Off-page optimization; Search Advertising: Basic Concepts; Elements of Search Ad; Managing Pay Per Click Process

Module III: Social Media Marketing& Digital Display Advertising (DDA)

Different Social Media Channels; Social Media Marketing (SMM) Process; Managing and Analyzing SMM Process; Key Stakeholders in Digital Display; Managing DDA Process

Module IV: Email & Mobile Marketing

Email Strategy & Planning; Advantages & Challenges of Email Marketing; Managing Email Marketing Process; Understanding Mobile Marketing; Mobile Messaging Channels; Mobile Commerce; Managing Mobile Marketing Process

Module V: Affiliate & Video Marketing

Affiliate Marketing: Basic Concepts, Building Blocks of Affiliate Marketing; Video Marketing: Basic Concepts, Video Production & Promotion; Content Marketing: Basic Concepts, Strategic Building Blocks of content Marketing

Module VI: Digital Marketing Strategy

Basic Elements of Digital Campaigns Management, Implementing Intent Based Campaigns, Implementing Brand Based Campaigns, Managing Digital Implementation Challenges

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Suggested Readings:

- Bhatia, P. S., (2019), Social Media & Mobile Marketing, Wiley
- Zimmerman, J., (2017), Social Media Marketing – All in One for Dummies, Wiley
- **Digital Marketing: Cases from India** by Rajendra Nargundkar and Romi Sainy, Notion Press, Inc (2018)
- **Understanding Digital Marketing: Marketing Strategies for Engaging the Digital Generation** by Damian Ryan, Kogan Page Publisher (Nov.2016)
- **Marketing 4.0: Moving from Traditional to Digital** by Philip Kotler, Kartajaya, H., & Setiawan, I.,(2017), 1st Edition Publisher Wiley(Dec. 2016)
- **Digital Marketing** by Seema Gupta, McGraw Hill Education (Nov, 2017)

- **Fundamentals of Digital Marketing** by Punit Singh Bhatia, Pearson (June 2019)
- **The Art of Digital Marketing: The Definitive Guide to Creating Strategic, Targeted, and Measurable Online Campaigns** by Ian Dodson, Wiley Publisher (2016)
- Ian Dodson (2016), The Art of Digital Marketing, 1st Edition, Wiley
- Stokes, B., (2013), E-marketing: The essential guide to marketing in a digital world, 5Edition, Quirt E-marketing Pvt Ltd.
- Chaffey, D., & Smith, PR., (2008), E-marketing Excellence, 3rd Edition, Elsevier



Course Name	Course Code	LTP	Credit	Semester
BUSINESS ENVIRONMENT	BBA 102	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Apprehend the concept, significance and changing dimensions of Business Environment
CLO 2	Identify various types of Business Environment
CLO 3	Make you familiar with some of the practical factors which impact on international business activities in differing political, legal and cultural environments.
CLO 4	Alerts you to some of the practical factors which impact on international business activities in differing political, legal and cultural environments.

B. SYLLABUS

Module I: Overview of Business Environment

Meaning and types of business environment, Internal and external environment, **Micro and macro environment, Factors** (Cultural, social, Political economic legal, demographic and technological) effecting business environment.

Module II: Indian Industrial and Financial environment

Industrial policy up to 1991, **New industrial policy, Liberalisation, Privatisation and Globalization process in India, Disinvestment, Industrial sickness, MRTP act 1969, Competition law 2002, Foreign Exchange Regulation Act and Foreign Exchange Management Act (FERA and FEMA).**

Indian money and capital markets: meaning, functions and constituents, Stock exchange- importance and functions, SEBI, Capital market reforms and development, Industrial financial institutions (IDBI, SIDBI, ICICI, IFCI etc.).

Module III: Labour Environment and Economic Planning

Labour legislation in India, Social security benefits, Industrial disputes- causes and preventive measures, Settlement of disputes, International Labour Organisation (ILO), Trade union- meaning and functions, **Trade Union Act, Planning in India- needs and objectives, five year plans, planning commission, 11th five year plan**, Green and white revolution- achievements and failures, Second green revolution, foreign trade policy 2009, Export processing zones, Export oriented units, Special economic zones (EPZ's, EOU's, SEZ's) and trading houses in India.

Module IV: Global Environment

Bretton woods system, features of Uruguay round of negotiations, GATT/ **WTO- role, functions and ministerial conferences, IMF, World Bank** (International Bank for Reconstruction and Development), Regional economic cooperation institutions, SAARC, EU, NAFTA and ASEAN.

Evaluation:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Francis, C. (2014). Business Environment - Text and Cases, Himalaya Publishing House
- Francis, C. (2003). International Business Environment, 1st Ed., Himalaya Publishing House Mumbai.
- Shaikh, S. (2010). Business Environment, Dorling Kindersley (India)
- Mishra S. K., & Puri V. K. (2014). Indian Economy, Himalaya Publishing House
- Datt, G., & Mahajan, A. (2014). Indian Economy, S. Chand & Co. Ltd
- Kapila, U. (2014). Indian Economy – Performance and Policies, 14th Ed, Academic Foundation.



Course Name	Course Code	LTP	Credit	Semester
READINGS IN MANAGEMENT	BBA 108	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Describe the various concepts used to analysis.
CLO 2	Able to write the analysis.
CLO 3	Present analysis of Industries and companies in a professional, logical, clear and coherent way.

B. SYLLABUS

Guidelines:

The student is expected to thoroughly go through the discipline related prescribed book/Material with the objective of critically reviewing each aspect and character of the book. The student is supposed to have a detailed insight into the following:

1. Content
2. Writing style
3. Information/learning
4. Content handling
5. Characters (if any)
6. Thematic Clarity

The report is to be submitted in about 3000 words on A4 size sheets, Font 12pt., Times New Roman, 1.5 spacing. Headings in Font Size 16

Evaluation:

Components	CPA	T	Q/S/CA	A	ME	EE
Weightage (%)	50	-	45	5	-	-

CPA: Report on the Book in 3000 words

Q/S/CA: Written Test on Understanding of Readings



Course Name	Course Code	LTP	Credit	Semester
ANALYSIS AND DESIGN OF BUSINESS SYSTEMS	BBA204	2:0:1	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Describe the various levels of system development life cycle.
CLO 2	Record the current working of any organization and relate it with the different situation in any other organization.
CLO 3	Analyse how information is recorded and kept at different levels in the organization.
CLO 4	Interpret how to use Database Management System and Normalization to solve data related business problems.
CLO 5	Illustrate the impact of Database Management system in organization.
CLO 6	Demonstrate how to build a physical model of the database from the theoretical model and write database queries to answer business questions.
CLO 7	Describe the role of Maintenance and Auditing while developing a new system or working in an existing system.
CLO 8	Discuss the importance of security and what measures should be taken to ensure security of the system.

B. SYLLABUS

Module I: The systems development Environment. (Information system development life cycle)

System & its parts, Types of Systems, Characteristics of a System, **System Analyst in system Development, Developing Systems-SDLC**, Approaches to System Development (Prototyping, Joint Application Design (JAD), Participatory Design (PD)), System Development Models (Waterfall model & Spiral Model), System Planning & Selection (Identifying, Selecting, Initiating & Planning System Development Project).

Module II: System Planning and Selection (Graphic technology modeling tool)

Identifying and Selecting Projects (Identifying potential development projects, classifying and ranking projects, and selecting projects for development), Methods for project identification and selection, Evaluation criteria for classifying and ranking projects, Initiating and Planning System Development Projects (Process & performed Activities, Deliverables & Outcomes), **Assessing Project Feasibility** (Economic, Operational, Technical, Schedule, Legal & Contractual, Political Feasibility)

Module III: System & Data Analysis (Data Analyzing Modeling)

Determining System Requirements (Traditional Methods, Modern & Radical Methods), Structuring System Requirements (Process Modeling – **DFD, Logic Modeling – Structured English & Decision Tables, Conceptual Modeling – ER Model**), **Data Analysis & Techniques** (Interpretive, Coding, Recursive Abstraction and Mechanical Technique), Types of Analysis (Descriptive, Exploratory, Confirmatory and Predictive), Modeling Methodologies (Bottom Up method & Top Down Method), Generic and Schematic Data Modeling.

Module IV: System & Database Design

System Design (Design Objectives, Phases in Designing, Purpose of System Design), System Design Goals, Type of Design, Design Strategy, System Decomposition (Modeling, Connection and Coupling of a System), **System Design Methodologies, Database Design, Database Management System** – an introduction, Overview of Data Models, Relational Database Model – Well structured relations, Keys, Schema & Subschema, Structure, Facilities & Users, Constraints, Anomalies, Functional Dependency, Normalization, Roles & Duties of System Administration.

Module V: System Implementation & Operation (System Management)

Activities in implementing (Coding, Testing & Installation, Documentation, Training, Support, Maintenance), Types of testing, planning installation, approaches to installation, Documenting a system, Training and Supporting users, Types & Frequencies of Training Methods, Reasons of System Implementation Failures, Project Closedown, Conducting System Maintenance – Types of Maintenance (Corrective, Adaptive and Perfective Maintenance), effective maintenance, Evaluation of System's Success, System Enhancement, **Quality Assurance in System Cycle**

Module VI: System Security and Auditing

System Security: **Data Security, Backup & Recovery during System & Database failure, Ethical Issues in System Development**, Threat and Risk Analysis, Audit, System Audit, System Audit Standards (Planning, Implantation and Reporting Standards), System Analysis and Programming (Overview, Role & Duties of System Experts as Analyst and Programmer).



Evaluation:

Components	CPA	T	Q/S/CA	A	ME	EE
Weightage (%)	30	-	-	5	15	50

Text & References:

- Kroeber, D. W., & Watron, H. J. (2010). Computer Based Information Systems,. Macmillan Pub. Co.
- Senn, J. A. (2010). Analysis and Design of information systems,. McGraw-Hill.
- Valacich, G. H. (2003). Essentials of System Analysis & Design. Prentice-Hall



Course Name	Course Code	LTP	Credit	Semester
BUSINESS STATISTICS	BBA205	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Describe and identify different concepts of Statistics
CLO 2	Recognize and identify various techniques of statistics to take analyse the business data.
CLO 3	Assess various techniques of statistics which help in decision making
CLO 4	Analyze and Implement the various techniques of statistics to make decisions.
CLO 5	Use critical thinking to analyse management challenges through learning and study, individually or in a group.

B. SYLLABUS

Module I: Introduction to Statistics

Definitions, Functions of Statistics, Statistics and Computers, Limitation of Statistics, Application of Statistics

Module II: Data Collection and Analysis

Methods of Data Collection, Primary And Secondary Data, Measures of Dispersion-Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation.(Absolute & Relative Measure of Dispersion), Skewness-Karl-Pearson's Coefficient of Skewness, Bowley's Coefficient of Skewness, Kurtosis.

Module III: Correlation Analysis and Regression Analysis

Introduction-Importance of Correlation, Types of Correlation, Scatter Diagram Method, Karl Pearson's coefficient of Correlation (Grouped and Ungrouped), Spearman's Coefficient of Rank Correlation, Rank Correlation for Tied Ranks, Regression Analysis-Concepts of Regression, Difference b/w Correlation and Regression, Regression Lines.

Module IV: Time Series Analysis

Meaning and Significance, Components of Time Series, Trend Measurement, Moving Average Method, Least Square Method (Fitting of Straight Line Only)

Module V: Probability and Probability Distribution

Introduction, Terminology used in Probability, Definitions of Probability, Mathematical, Statistical and Axiomatic Approach to Probability, Probability Rules-Addition Rule, Multiplication Rule of Probability, Conditional Probability- Bayes Theorem, Problems on Bayes Theorem; Discrete Probability Distributions-Binomial Probability Distribution, Poisson Probability Distribution, Properties, Applications, Continuous Probability Distributions-Normal Probability distribution, Properties of the Normal Curve, Applications, Relation b/w distributions.

Evaluation:

Components	CPA	T	Q/S/CA	A	ME	EE
Weightage (%)	30	-	-	5	15	50

Text & References:

- Rao, A. B. (2012) Quantitative Techniques in Business, Second Edition, Jaico Publications
- Gupta S. P. (2010). Statistical Methods, S. Chand & Co.
- Kapoor, V. K. & Sancheti, (2011). Business Statistics, Sultan Chand & Sons
- Anderson, D. R., Sweeney, D. J, & Williams, T. A. (2002), Statistics for Business and Economics, 11th Ed, South-Western Cengage Learning
- Kothari C. R. (2012). Quantitative Techniques, Third edition, Vikas Publishing House
- Hooda R. P. (2002). Introduction to Statistics, Macmillan
- Sharma, J. K. (2007), Business Statistics, Pearson Education India



Course Name	Course Code	LTP	Credit	Semester
DATA ANALYTICS	BBA265	1:0:4	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstrate basic skills to work on MS Excel
CLO 2	Present data with the help of various charts prepared using MS Excel and SPSS
CLO 3	Carry out data analysis using MS Excel: data analysis tools, what if analysis and pivot table
CLO 4	Carrying out statistical analysis using SPSS

B. SYLLABUS

Module I: Basics of MS Excel

Understanding Basics of Spreadsheet; **Sorting Data; Filtering Data; Conditional Formatting**; Inserting and Copying Formulas; Freeze Panes; Range Names, Paste Special Command, **Text Functions**, Count Functions, Text Functions

Module II: Data Presentations: Graphs & Charts

Bar Chart, Line Chart, Column Chart, Pie Chart, Area Chart, Stock Chart, Surface Chart, Doughnut Chart, Scatter Diagram, Bubble Diagram, Radar diagram.

Module III: Data Analysis using MS Excel

Basic Pivot Tables, Pivot Charts, What if Analysis: **Goal Seek, Data Table, Scenario Manager**; Using Data Analysis Tool for Statistical Analysis; Using Solver, **NPV, IRR.**

Module IV: Data Analysis Using SPSS

Basics of SPSS, Building Variable View; Summarizing Non Parametric Data; Descriptive Statistics, Cross Tabulation, Inferential Statistics: Chi Square Test, t-test, One Way ANOVA, Correlation & Regression Analysis

Examination Scheme

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & Reference Books

- Winston, W. L., (2014). Microsoft Excel 2013: Data Analysis & Business Modeling
- Landau, S., & Everitt, B.S., (2004), A Handbook of Statistical Analysis Using SPSS, Chapman & Hall/CRC



Course Name	Course Code	LTP	Credit	Semester
PUBLIC FINANCE	BBA 380	3:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand and analyse the role of Governments in the modern mixed economies.
CLO 2	Evaluate characteristics of a good tax system, revenue and expenditures of the Government, fiscal deficit, fiscal policy and its impact on the economy.
CLO 3	Appraise the impact of changes in fiscal policy on the economy, how initiatives and regulations in fiscal planning helps the economy.

B. SYLLABUS

Module I: Introduction

Nature, Scope and Importance, Theory of Maximum Social Advantage, Private goods, Public goods and Merit goods; Role of government in managing the economy under different economic systems – Social Welfare Function; Theory of Public goods - Market failure - Externalities - problems in allocation of resources - theoretical developments in Demand revelation for social goods -Public choice.

Module II: Public Expenditure

Theories of Public Expenditure -Structure and growth of public expenditure - Criteria for public investment - Income Redistribution – Expenditure Programmes for the poor - Social Insurance: Unemployment Insurance, Health Care, and Education - Social cost-benefit analysis - benefit estimation and evaluation.

Module III: Taxation

Theory of Taxation - Benefit and ability-to-pay approaches - **Indian Direct and Indirect Taxes - Effects of taxation - Requirements of a sound tax system - Canons of taxation** - Tax reforms - Evaluation of Tax Reforms -Taxation Incidence and alternative concepts of Incidence.

Module IV Budgeting and Debt

Budget - Concept of PPB - Zero-based Budgeting - **Cash budgeting** : Cash management and Treasury functions in Government - Deficit Budgeting - Types of Deficits - Public Debt: Trends and composition of Indian Public Debt: Instruments - Treasury bills, bonds and other securities, Debt management - Methods of debt redemption.

Module V: Fiscal Policy

Role of Fiscal Policy in India - Principles of Fiscal federalism in India; Finance Commissions and Planning Commission

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

Text:

- Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, 3rd edition, McGraw- Hill Kogakusha, Tokyo.
- Raghbendra Jha : (1998), Modern Public Economics
- Rosen, Harway, S. - Public Finance, IVth Edn. Irwin.

References:

- Mueller, D.C. (1979), Public Choice, Cambridge University Press, Cambridge
- Brown, C.V. and Jackson - Public Sector Economics
- Raja J. Chellia et al. - Trends in Federal Finance
- D.N. Dwivedi, Readings in India Public finance
- Government of India, Report of the 13th Finance Commission
- Economic Survey, Government of India (latest).
- State Finances: A Study of Budgets, Reserve Bank of India (latest).



Course Name	Course Code	LTP	Credit	Semester
PUBLIC RELATIONS AND CORPORATE IMAGE	BBA 371	3:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Differentiate between advertising and publicity
CLO 2	Develop and demonstrate strategic plans and planning methods in Advertising and Public Relation
CLO 3	Discuss the concept and tools of Public Relations
CLO 4	Discuss different aspects of brand building and its importance for an organisation
CLO 5	Plan and execute ethically sound and socially responsible advertising strategies and public relations campaign

B. SYLLABUS

Module I: Corporate image

Understanding Corporate Image, Corporate Image Building: A Marketing Exercise, an overview to Marketing, understanding the Marketing Mix – Product, Price, Place, Promotion

Module II: Marketing Communications

Role in Corporate Image Building, introduction to the tools used for marketing communication – Advertising, Visual Corporate Identity, Public Relations, Sales Promotion, Direct Marketing, Sales Management, Sponsorships, Exhibitions, Packaging, Merchandising and Point-of-Purchase Materials, E-Marketing and Customer Service

Module III: Corporate Image and Society

Module IV: Public Relations

Understanding Public Relations, Role and Scope of PR, Corporate Image and PR, PR as part of Marketing Communications

Module V: Exercising PR

In-house PR, PR Agencies, Modes of PR and Media Handling, PR Events, Crisis Management in Public Relations

Module VI: PR Publications

In-house Journals, Ghost Writing, Media Writing, Press releases, brochures.

Module VII: Research in Public Relations

Building Information Resources, Areas of PR research: Public Opinion Research, Media Tracking, Content Analysis, Campaign Examination, Benchmark Studies,

Examination Scheme:

Components	CPA	T	Q/S/CA	A	ME	EE
Weightage (%)	30	-	-	5	15	50

Text & References:

Text:

- Public Relations: Principles, Cases and Problems, H. Frazier Moore, Frank B. Kalupa

References:

- Marketing Management, Philip Kotler
- Integrated Marketing Communications, PR Smith with Jonathan Taylor
- IMC, Tom Duncan



Course Name	Course Code	LTP	Credit	Semester
ENTREPRENEURSHIP DEVELOPMENT	BBA 596	3:0:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Have the ability to discern distinct entrepreneurial traits.
CLO 2	Know the parameters to assess opportunities and constraints for new business ideas.
CLO 3	Understand the systematic process to select and screen a business idea.
CLO 4	Explore entrepreneurial leadership and management style.

B. SYLLABUS

Module I: Basic Concepts

Qualities, Characteristics of an entrepreneur, Venture idea generation, Ideas and the entrepreneurship, Women entrepreneurs, Preliminary Screening, Drawbacks or Problems of entrepreneurship, Reasons of failure, Overview of setting up an enterprise.

Module II: Project Appraisal

Pre-feasibility Report, Project Report, Comparative Rating of Product ideas, Cash Flow, Financial Analysis and Planning, Sources of Finance. Stages of Project Feasibility Analysis- Market, Technical, Financial, Social Analysis, Project Implementation Stages

Module III: Financial Analysis

Financing the project, Sources of finance, Venture Capital Sources, What Investor looks in the Investment Proposal, Outline for a Venture Capital Proposal. Sources of finance from different banks, Proposal with IDBI etc.

Module IV: Market and Materials Management Analysis

Vendor development, vendor selection decision factors, methods of price determination, direct and hidden cost in material management, market development, market feasibility, activities and decisions in materials management

Module V: Project Management

Steps and procedure for setting up small scale, Role of Banks and Financial Institutions in Development, E-Commerce, E-Business, E-Auction. Project management problems.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

Text:



- Developing Entrepreneurship, Udai Pareek Sanjeev & Rao T.V, Printers, Ahmedabad
- Issues and Problems: Small: 1, Sharma, S.V.S., Industry Extension Training Institute, Hyderabad

References:

- A Practical Guide to Industrial Entrepreneurs; Srivastave, S.B., Sultan Chand & Sons
- Entrepreneurship Development; Bhanussali, Himalaya Publishing, Bombay



Course Name	Course Code	LTP	Credit	Semester
MANAGEMENT ACCOUNTING	BBA 280		3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	1. Recognise and explain the role of management accounting in the planning, control and decision making activities of organisations;
CLO 2	Acquire industrial skills of microbial culture, growth, and practic. Explain cost behaviour, its application to breakeven analysis and budgeting, and its importance in management decisions es
CLO 3	Apply alternative methods of calculating the costs of products, services and other cost objects and evaluate how the method used might affect management decisions and organisational performance; and Evaluate the need for management accounting information, systems and practices to change in response to changes in the operating and business environments.

B. SYLLABUS

Module I: A framework for Financial Decision Making

Financial Statements preparation, analysis and Interpretation: Comparative, common size statements, Analysis techniques- Ratio Analysis, **Cash flow Statement analysis as per AS3 and Trend analysis.**

Module II: Introduction to Management Accounting

Management Accounting: Evolution, Meaning, Objectives and Scope, Tools and Techniques of Management Accounting, Relationship of Cost Accounting, Financial Accounting, Management Accounting and Financial Management, Conflicts in Profit versus Value Maximisation Principle, **Role of Management Accountant in Decision Making**

Module III: Activity Cost Behaviour and Costing Systems

Activity-based Product Costing: Meaning, Importance, Characteristics, Elements and Steps involved, ABC vs. Traditional Costing, Uses and Limitations. **Job-order Costing: Job Cost Cards, Collecting Direct Costs, Allocation of Overheads and its Applications. Process Costing:** Features, Applications and Types of Process Costing, Process Loss, Abnormal Gains and Losses, Equivalent Units, Inter-Process Profit, Joint Products, By-Products and Accounting

Module IV: Budget, Budgeting and Budgetary Control

Budgetary basics; Preparing operational and financial budgets, Flexible Budgeting, **Budgetary Control and Responsibility Accounting; Standard Cost and Balance Scorecard, Com**putation of various types of Variances (Material variance, Labour variance)

Examination Scheme:

Components	CPA	T	Q/S/CA	A	ME	EE
Weightage (%)	30	-	-	5	15	50

Text Books:

- ✓ Gupta SP and KL Gupta “Management Accounting”, Sahitya Bhawan Publications

Reference Books/Journals/Other Study Material:

- ✓ Arora, M. N. (2015) Cost and Management Accounting (Theory and Problems), 4th Edition, Himalaya Publishing House.



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- ✓ Maheshwari, S.N. & Maheswari, S.K. (2012) Cost Accounting, 10th Edition, Sultan Chand Publication.



Course Name	Course Code	LTP	Credit	Semester
ANALYTICAL SKILL BUILDING	BBA 592	3:0:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Recognising the importance of critical thinking in analysis
CLO 2	Understanding the concept of analysis
CLO 3	Identifying the different aspects of analysis
CLO 4	Using the analytical process to arrive at a decision

B. SYLLABUS

Module I: Quantitative Reasoning

Number System & Number Theory, Percentage method, Profit & Loss, Speed, Time & Distance

Module II: Quantitative Reasoning

Ratio, Proportion, Mixtures & Alligations, Set Theory, Co-ordinate Geometry (2-D only), Mensuration

Module III: Data Interpretation

Bar Graph / Line Graph / Pie Chart / Table / Table Three Dimensional or Triangular Bar Diagram / Misc. (Radar, Area, Network) / Caselets.

Module IV: Data Sufficiency & Logical reasoning

Mathematical / reasoning based. Data Decoding: Analytical: Assumption, Courses of Action, Argument, Weak / Strong, Pictorial Analysis

Module V: Verbal Ability & Reasoning

Vocabulary based questions, English Usage, Grammar Types of statements and their relationship / Reversibility of idea, Re-arranging sentences of a paragraph, Paraphrasing, Fact, Inference, Judgment & deductions.

Module VI: Reading comprehension

Four types of Passages: The social science passage, The Science passage, the business passage & the entertainment passage

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- This course is aimed at enhancing students' skills in the area of English, General knowledge and Quantitative aptitude. No textbooks or reference books are required as the course is carried out in the form of classroom exercises, which are circulated by the faculty himself.



Course Name	Course Code	LTP	Credit	Semester
SOCIAL MEDIA MARKETING	BBA 616	3:0:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand fundamental concepts and principles of Social Media Marketing. .
CLO 2	Develop Social Media Marketing mix
CLO 3	Decide appropriate Social Media Marketing Channels/Platforms
CLO 4	Develop and Execute Social Media Marketing Campaigns.
CLO 5	Evaluate Effectiveness of Social Media Marketing by applying relevant Social Media Analytics tools.

B. SYLLABUS

Module 1: Introduction to Social Media Marketing

The Role of **Social Media Marketing**, Understanding Social Landscape, Emerging, Landscape & Trends, Social Media Platforms and Social Network Sites, Microblogging

Module 2: Social Media Strategy

Social Media Marketing: Strategy & Framework Identifying Target Audiences, Rules of Engagement for SMM, Content Creation and Sharing: Blogging, Streaming Video, Podcasts, and Webinars

Module 3: Social Media Monitoring

Tools for Managing the **Social Media Marketing** Effort, Leveraging SEO for Social Media, Measuring Blogging, Podcasting and Vlogging Metrics

Module 4: Managing Other Social Media

Video Marketing, **Marketing with Photos Sharing** Sites, Discussion, News, Social Bookmarking, and Q&A Sites, Content Marketing: Publishing Articles, White Papers, and E Books

Suggested Readings:

- Bhatia, P. S., (2019), Social Media & Mobile Marketing, Wiley
- Zimmerman, J., (2017), Social Media Marketing – All in One for Dummies, Wiley
- **Digital Marketing: Cases from India** by Rajendra Nargundkar and Romi Sainy, Notion Press, Inc (2018)
- **Understanding Digital Marketing: Marketing Strategies for Engaging the Digital Generation** by Damian Ryan, Kogan Page Publisher (Nov.2016)
- **Marketing 4.0: Moving from Traditional to Digital** by Philip Kotler, Publisher Wiley(Dec. 2016)
- **Digital Marketing** by Seema Gupta, McGraw Hill Education (Nov, 2017)
- **Fundamentals of Digital Marketing** by Punit Singh Bhatia, Pearson (June 2019)
- **The Art of Digital Marketing: The Definitive Guide to Creating Strategic, Targeted, and Measurable Online Campaigns** by Ian Dodson, Wiley Publisher (2016)



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Course Name	Course Code	LTP	Credit	Semester
FINANCIAL ACCOUNTING – I / (FA-I F3)	BCH180	2:01:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the purpose of financial accounting
CLO 2	Comprehend the qualitative characteristics of financial statements
CLO 3	Exhibit the use of double entry system in recording transaction
CLO 4	Preparation of financial statements and the interpretation

B SYLLABUS

Course Contents:

Module I: Purpose of Financial Accounting

Define financial accounting – purposes of financial statements for the users – main elements of financial reports – conceptual framework – definitions of asset, liability, equity, income & expenses-prudence.

Module II: Qualitative Characteristics of Financial Statements

Concepts of relevance, faithful presentation, materiality, substance over form, going concern, business entity, accruals, consistency, comparability, verifiability, understand ability and timeliness

Module III: Accounting Records & Double Entry Accounting System

Main data sources for accounting – different business documents such as sales order, purchase order, goods received note, quotation, goods despatched note, invoice, credit & debit notes, receipt, remittance advice, cash vouchers – understand the double entry accounting & duality concept – types of transactions such as sales, purchases, payments & receipts.

Module IV: Recording Transactions

Recording into journals – ledger accounts – balancing of ledger accounts – accounting for discounts, sales tax – recording cash transactions – accounting & valuation of inventories – accruals & prepayments – tangible & non-tangible assets – depreciation & amortisation accounting – receivables & payables – provisions & contingencies – errors & rectification – bank reconciliation statements

Module V: Trial Balance, Financial Statements

Statements of profit or loss and other comprehensive income, Balance sheet – events after reporting period – Describe the principle of the equity method of accounting for Associate entities

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Kaplan Publishing, ACCA Financial Accounting (FA)
- Banerjee, B. K. (2010). Financial Accounting: Concepts, Analyses, Methods and Uses. PHI Learning
- Hanif, M. (2013). Financial Accounting. McGraw Hill Education
- Maheshwari, S. K. (2013). An Introduction to Accountancy. Vikas Publication.
- Ssehgal, D. (2012). Financial Accounting. Taxmann
- Tulsian, P. C. (2013). Financial Accounting. Pearson Education.
- Rajasekaran, R. L. (2012). Financial Accounting. Pearson Publication.



AMITY BUSINESS SCHOOL (ABS)

Course Name	Course Code	LTP	Credit	Semester
BUSINESS ORGANIZATION AND MANAGEMENT / (AB-F1)	BCH181	3:01:0	4	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand business and identify various stakeholders
CLO 2	Understand business and business management process and its sub-processes
CLO 3	Understand the impact of external environment on the organization and identify various environmental forces and their impact on business
CLO 4	Understand and identify the accounting and finance as a tool of management and control
CLO 5	Understand HR management and its processes.
CLO 6	Describe issues of ethics and social responsibility

B. SYLLABUS

Course Contents:

Module I: The Business Organization, its Stakeholders and External Environment

The purpose and types of business organization -Stakeholders in business organizations -Political and legal factors affecting business -Macroeconomic factors -Micro economic factors -Social and demographic factors -Technological factors - Environmental factors -Competitive factors

Module II: Business Organizational Structure, Functions and Governance

The formal and informal business organization- Business organizational structure and design-Organizational culture in business -Committees in business organizations -Governance and social responsibility in business

Module III: Accounting and Reporting Systems, Compliance, Control, Technology and Security

The relationship between accounting and other business functions -Accounting and finance functions within business organizations -Principles of law and regulation governing accounting and auditing -The sources and purpose of internal and external financial information, provided by business -Financial systems, procedures and related IT applications -Internal controls, authorization, security of data and compliance within business -Fraud and fraudulent behavior and their prevention in business, including money laundering. -The impact of Financial Technology (Fintech) on accounting systems

Module IV: Leading & Managing Individuals, Teams and Personal Effectiveness & Communication

Leadership, management and supervision -Recruitment and selection of employees -Individual and group behavior in business organizations -Team formation, development and management -Motivating individuals and groups -Learning and training at work -Review and appraisal of individual performance- The application and impact of Financial Technology (FinTech) in accountancy and audit -Personal effectiveness techniques- Consequences of ineffectiveness at work -Competence frameworks and personal development -Sources of conflicts and techniques for conflict resolution and referral -Communicating in business

Module V: Professional Ethics in Accounting and Business

Fundamental principles of ethical behavior -The role of regulatory and professional bodies in promoting ethical and professional standards in the accountancy profession -Corporate codes of ethics- Ethical conflicts and dilemmas

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Kaplan Publishing, ACCA Accountant in Business (AB)
- Jain, V. (2000). Theory of Management, 3rd Ed, International Book House,
- Robbins, S. P., & Judge, T. A. (2013). Organizational Behaviour, 15th Ed, Pearson
- Robbins, S. P. (2002). Organizational Behaviour: Concepts, Controversies, Applications, Prentice Hall



Course Name	Course Code	LTP	Credit	Semester
CORPORATE AND BUSINESS LAWS - I / (LW-F4)	BCH182	3:01:0	4	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the Business Law
CLO 2	Various important features of Business laws
CLO 3	Details of Contracts, Sales of goods act, Negotiable Instruments, Company law

B. SYLLABUS

Course Contents:

Module I:

Meaning and Scope of business law; Sources of Indian Business Law- Indian contract act (Definition – types of contract – essentials; Void Agreement and voidable agreement and its consequences; Discharge of a contract; Remedies for breach of contract; Special Contract- Contingent contract, quasi contract, Contract of indemnity and guarantee, Contract of bailment and pledge, law of agency).sale of goods Act, Partnership Act, Limited Liability Partnership Act, Company Act, Negotiable Act.

Module II:

Contract of sale, meaning and difference between sale and agreement to sell, Condition and warranties, Caveat Emptor, Transfer of ownership in goods including sale by non-owners, Performance of contract of sale, Unpaid seller – meaning and rights of an unpaid seller against the goods and the buyer, Auction Sale, Definition of a negotiable instrument; instruments negotiable by law and by custom; types of negotiable instruments, dishonor of cheque and remedies, Brief of Partnership Act, Limited Liability Partnership Act.

Module III:

A brief history of Indian Companies Act: Corporations and legal personality, Identify the essential elements of Company Law, Lifting of Corporate veil, Nature, Advantages and Disadvantages of company, The formation and constitution of a company, Kinds of Companies, Memorandum and Articles of Association, Prospectus, Share, Share Capital, Allotment (Law relating to formation Issue, allotment, forfeiture and transfer of shares), Membership, Directors.

Module IV:

Additional director, Meetings, Company Management, Prevention of Mismanagement and Oppression, Company Secretary: Appointment, Position, rights, duties and liabilities. Secretarial Practice, Winding up of Company, Voluntary Winding up of Company, Criminal Liability, Corporate fraudulent and criminal behavior, Fraudulent and criminal behavior, Tribunals

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50

Text & References:

- Singh, Avtar, The Principles of Mercantile Law, Eastern Book Company, Lucknow.
- Kuchhal M C, Business Laws, Vikas Publishing House, New Delhi
- Tulsian P.C., Business Law, Tata McGraw Hill, New Delhi.
- Sharma, J.P. and Sunaina Kanojia, Business Laws, Ane Books Pvt. Ltd., New Delhi.
- Chadha P R Business Law, Galgotia Publishing Company, New Delhi
- Maheshwari & Maheshwari, Business Law, National Publishing House, New Delhi.
- Bare Act of negotiable Instrument Act.



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Course Name	Course Code	LTP	Credit	Semester
FINANCIAL ACCOUNTING - II / (FA-F3)	BCH280	2:01:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and analyse the reasons for the difference between cash book and pass book balances
CLO 2	Learn to prepare Receipts & Payment Account, Income & Expenditure Account and Balance Sheet for Non-Profit Organizations
CLO 3	Record hire purchase transactions and understand lease accounting
CLO 4	Illustrate effectively the concept and nature of accounting for specialized business transactions in accounting for partnership activities

B. SYLLABUS

Module I

Bank reconciliation statement- Introduction, Meaning-Cash Book and Pass Book- Causes for difference between Cash book and Pass book-Purpose of bank re-conciliation, Accounting and reporting systems, controls and compliance

Module II

Accounts of non-profit organizations - receipts and payments and income and expenditure accounts and balance sheet; accounts of professionals

Module III

Cash flow statements interpretation of financial statements - use of basic ratios related to profitability, liquidity, and activity and resource utilisation

Module IV

Partnership Accounting:- General, Admission of Partner, Retirement and Death of Partner, Dissolution of Firm, Insolvency of partners, Piecemeal Distribution. - Introduction to group accounts

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50

Text & References:

- Kaplan Publishing, ACCA Financial Accounting (FA)
- Banerjee, B. K. (2010). Financial Accounting: Concepts, Analyses, Methods and Uses. PHI Learning Private Limited.
- Hanif, M. (2013). Financial Accounting, Mc Graw Hill Education (India) Private Limited.
- Maheshwari, S. K. (2013). An Introduction to Accountancy. Vikas Publication.
- Sehgal, D. (2012). Financial Accounting, Taxmann
- Tulsian, P. C. (2013). Financial Accounting, Pearson Education
- Rajasekaran, R. L. (2012). Financial Accounting, Pearson Publication



Course Name	Course Code	LTP	Credit	Semester
INCOME TAX LAWS AND PRACTICES/(TX-F6)	BCH281	2:01:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the legal and procedural structure of taxation in India
CLO 2	Classify and compute the income under various heads and thereby compute gross total income & total Income
CLO 3	Understand the Tax planning concerning deductions and relaxation available
CLO 4	File return and follow other tax-related procedures

B. SYLLABUS

Course Contents:

Module I

Brief History of Taxation in India, The Indian Tax System, Importance of Taxation and types of taxes, Canons of Taxation – Finance Bill – Scheme of Income Tax. Definition: Assessee, Person, assessment year, previous year, income, Gross Total Income, Total Income, Agricultural Income, Revenue and Capital (a) Receipts (b) Expenditure (c) Loss, Conceptual and Legal Frame work of Income Tax, Scope of Income Tax, Exempted incomes, Residential Status & Incidence of Tax

Module II

Introduction on incomes under different heads-salary, income from house property, profits & gains of business and profession, capital gains, income from other source, Income from Salary – Features of Salary Income – Basic Salary – Treatment of Provident fund, Allowance u/s 17(3) including problems on House Rent Allowance, Death-cum-Retirement Gratuity, Commutation of Pension, Leave Encashment, compensation received on voluntary retirement. Perquisites section 89(1)

Module III

Gross Total Income & Deductions u/s 80C-80U, Total Income & Computation of Tax, Aggregation of income and Clubbing income, set off and carry forward of losses.

Module IV

Preparation of return of Income: PAN- Manually, online filing of return of Income; Assessment of various persons; Individuals & HUF: AOP, BOI, Firm and Companies; Tax Planning, Tax Avoidance and Tax Evasion

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50

Text & References:



AMITY UNIVERSITY

— R A J A S T H A N —

- Singhanian, Vinod K & Singhanian Monica. (2015) *Students' guide to Income Tax*, 53 Edition. New Delhi: Taxmann Publication
- Ahuja, Girish & Ravi Gupta. *Systematic Approach to Income Tax*. Delhi: Bharat Law House.
- Pagare, Dinkar. *Law and Practice of Income Tax*. New Delhi: Sultan Chand and Sons.
- Lal, B.B. *Income Tax Law and Practice*. New Delhi: Konark Publications.



Course Name	Course Code	LTP	Credit	Semester
AUDIT & ASSURANCE / (AA-F8)	BCH282	3:01:0	4	2

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the concept of audit & assurance and the functions of audit
CLO 2	Securing and handling audit assignments, audit risks
CLO 3	Comprehension and evaluation of internal controls, techniques & audit tests
CLO 4	Gathering & managing audit evidence and review and reporting

B. SYLLABUS

Course Contents:

Module I: Audit Framework & Regulation

Concept of audit & assurance – professional ethics of an auditor – scope of internal & external audit – governance & audit

Module II: Audit Planning & Risk Assessment

Obtaining & planning for audit assignments – understanding the entity & its environment – assessing audit risk – fraud risk – interim audit and impact of work performed - audit planning & documentation – audit evidence, documentation, working papers

Module III: Internal Control & Audit Tests

Internal control system assessment – control environment, risk assessment procedures, monitoring of controls – evaluation of internal control system by auditor – test of control – communication on internal controls-Explain how auditors record internal control systems including the use of narrative notes, flowcharts and questionnaires.

Module IV: Audit Evidence & Reporting

Techniques of collecting audit evidence such as inspection, observation, external confirmation, recalculation, analytical procedures, and enquiry – quality & quantity of audit evidence – audit sampling – computer assisted auditing techniques – review procedures including subsequent events, going concern, written representations – auditor’s report contents & opinion-Explain the overall objectives and importance of quality control procedures in concluding an audit.- Discuss the need for auditors to communicate with those charged with governance.

Module V: Audit of Specific Items

Audit of receivables, inventory, payables & accruals, bank & cash, tangible & intangible assets, share capital & reserves, directors’ remuneration – details of audit checks for these items and reporting thereof – use of management representation

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References

- Kaplan Publishing, ACCA Audit & Assurance (AA)
- Sharma T.R, *Auditing*, Sahitya Bhawan Publication: India
- Tandon,B.N., *Practical Auditing*, S. Chand Publication: India
- Kumar R. & Sharma V., *auditing: principles and practice*, PHI Learning: India
- MS Ramaswamy, *Principles and Practice of Auditing*,
- Dinakar Pagare, *Practice of Auditing*,
- Kamal Gupta, *Practical Auditing*,
- P N Reddy & Appannaiah, *Auditing*,

COST AND MANAGEMENT ACCOUNTING – I / (MA-F2)

Course Code: BCH 380

L:2, T:1, P/FW:2 C:03

Course Objective:

To understand the principles of cost & management accounting for application to the management functions of planning, decision-making & control and to apply the cost accounting methods & techniques to various business contexts

Learning outcomes:

- Knowledge and understanding of nature, purpose and scope of managerial information
- Understanding the concept of costs
- Methods of costing - absorption & marginal costing
- Use of budgets and standard costs for planning & control

Course Contents:

Module I: Information for Management

Sources of data (internal & external) –concept of cost – cost classification based on nature of expenses, function, variability – cost behaviour with use of graphs – concept of cost objects, cost units & cost centres- Data analysis and statistical techniques

Module II: Accounting For Costs – Material & Labour

Accounting for material costs – ordering, receiving & issuing material –methods of valuing purchases and issues (FIFO & Weighted Average methods only) – EOQ – inventory levels – Accounting for labour – direct & indirect cost of labour – remuneration methods (individual & group) – labour turnover – overtime & idle time – labour efficiency, capacity & volume ratios

Module III: Accounting for costs – Overheads

Accounting for overheads – allocation of overheads to production & nonproduction departments – apportion service overheads to production departments - production overhead absorption rates – entries for accounting of material, labour & overhead costs

Module IV: Methods of Costing

Understanding of applying job & batch costing, Process costing (including joint products & by-products, equivalent production), service costing – understand the differences between absorption & marginal costing

Module V: Budgeting & Standard Costs

Understand the use of budgets and standard costs for planning & control – flexible budgets – reconciliation budgeted profits with actual – meaning & calculation of standard costs – computation of simple variances v/s budgets & standards

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Kaplan Publishing, ACCA Management Accounting (MA)

- Arora, M. N. (2015) *Cost and Management Accounting (Theory and Problems)*, 4th Edition, Himalaya Publishing House.
- Jawahar, L & Srivastava, S (2013) *Cost Accounting*, 5th edition, Mc Graw Hill Education
- Jain, P. K. (2013) *Cost Accounting*, 3rd edition, Tata Mc Graw Hill Education
- Maheshwari, S.N. & Maheswari, S.K. (2012) *Cost Accounting*, 10th Edition, Sultan Chand Publication



Course Name	Course Code	LTP	Credit	Semester
FINANCIAL MANAGEMENT	MBA202	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Recognize essential components of modern finance theory and its application in making crucial financial decisions;
CLO 2	Illustrate the use of various tools of financial management in selecting the best among the various choices;
CLO 3	Demonstrate technical skills by solving specific problems helpful in evaluating different possibilities for competitive advantage;
CLO 4	Have the opportunity to apply problem solving and analytical skills to issues in financial management; and
CLO 5	Use critical thinking to analyse management challenges through learning and study, individually or in a group.

B. SYLLABUS

Module I: Introduction

A Framework for Financial Decision-Making- Financial Environment, Changing Role of Finance Managers, Objectives of the firm

Module II: Valuation Concepts

Time Value of Money, Risk and Return, Financial and Operating Leverage

Module III: Financing Decisions

Introduction to Indian Capital Market, Capital Structure and Cost of Capital, Marginal Cost of Capital

Module IV: Capital Budgeting

Estimation of Cash Flows, Criteria for Capital Budgeting Decisions, Issues Involved in Capital Budgeting, Risk analysis in Capital Budgeting – An Introduction.

Module V: Working Capital Management

Factors Influencing Working Capital Policy, Operating Cycle Analysis, Management of Inventory, Management of Receivables, Management of Cash and Marketable Securities, Financing of Working Capital.

Module VI: Dividend Policy Decisions

An introduction: Different Schools of Thought on Dividend Policy.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Sridhar, A. N. (2014), Financial Management Problems & Solutions, Shroff Publishers Distributors
- Chandra, P. (2006), Financial Management: Theory and Practice, Tata McGraw Hill.
- Damodaran, A. (2004), Corporate Finance: Theory and Practice, Wiley & Sons.
- Van Horne, J.C. (2006), Financial Management and Policy, PHI
- Brearly, R. A., & Myers, S. C. (2006). Principles of Corporate Finance, Tata McGraw Hill
- Pike, R., & Neale, B. (1998). Corporate Finance and Investment: Decisions and Strategies, PHI
- Rustagi, R. P. (1999). Financial Management: Theory, Concepts and Problems, Galgotia Publishing
- Pandey, I. M. (1999). Financial Management, Vikas Publishing House



Course Name	Course Code	LTP	Credit	Semester
FINANCIAL REPORTING-I/(FR-I-F7)	BCH382	3:01:0	4	3

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the use and application of the IFRS (and Ind AS in India)
CLO 2	Accounting for transactions using accounting standards
CLO 3	Preparation of single entity financial statement
CLO 4	Analysis & interpretation of accounting statements

SYLLABUS

Course Contents:

Module I: Use of IFRS and Ind AS

Understand the application of IFRS in India through the use of Ind AS - the applicability of Ind AS - the mapping of Ind AS to IFRS - differences between IFRS & Ind AS - the list of IFRS (Ind AS) - Process of transition to IFRS for the first time

Module II: Application of IFRS (Ind AS) for Transactions

Asset based standards such as PPE, Intangible assets, borrowing costs, impairment of assets, inventory & biological assets, provisions & contingencies, events after reporting period, accounting policies, estimates & errors

Module III: Revenue Recognition

Understand the principles of recognising revenue of the business - revenue recognition for goods, services, interest and dividends - concept of deferred income and accounting thereof

Module IV: Preparation & Presentation Of Financial Statements

Thorough knowledge of preparation & presentation of financial statements by incorporating the effects of the accounting standards (covered in module 2& 3 only) - statement of profit or loss and other comprehensive income - statement of financial position (Balance sheet)

Module: Analysis of Financial Statements

Analyse the financial performance of an entity using the financial statements - use of ratios in performance evaluation - trend analysis - comparison with competition or industry average.

Evaluation Scheme:

Components	A	CI	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Kaplan Publishing, ACCA Financial Reporting (FR)
- P.C. Tulsian "Tulsian's financial reporting, S. Chand, March 2014.
- William J. Bruns, Cengage "Financial Reporting & Management Accounting", Learning India Pvt. Ltd, July 2010.
- C.A. Praveen Sharma "Financial Reporting with Accounting Standards", Pooja Law Publishing Company, January 2013.
- Raiyani Jagdish, Dr. Gaurav Lodha, "International Financial Reporting Standards and Indian Accounting Practices, New Century Publications.

INDIRECT TAXES AND AMENDMENTS/(TX-F6)

Course Code: BCH 384

L:2, T:0, P/FW:2 C:03

Course Objective

To provide students with the knowledge of Basic concepts of Indirect Taxes in India, to introduce them with GST and Implementation of GST to train them for application of these principals and provisions and implementation of GST

Module I

Overview of Indirect Taxation in India; Various Indirect Taxes Available prior to GST- Excise Duty; Concept, Goods-Excisable Goods; Classification and valuation of Goods; Administration, Storage, Accounting & Clearance of Goods, Central Excise (CENVAT), Assessment, Tax Planning in Excise Custom Duty: Introduction, Concept, Nature and types of duties, classification, Valuation and different types of forms used in custom, Tax planning in custom, Import and export procedure in customs, Export incentive scheme. VAT, Service Tax: Concept, provisions and procedure, Taxable services.

Module II

Overview of GST-Implementation of GST, Liability of the Tax Payer, GST Network, GST Council: Levy of GST, Composition Scheme, Remission of Tax / Duty, Registration under GST, Special Persons, Amendments / Cancellation, Overview of the IGST Act- Other Provisions, Place of Supply of Goods & Services-Introduction, Registered and Unregistered Persons, GST Portal- GST Eco-system, GST Suvidha Provider (GSP)

Module III

Meaning and Scope of Supply-Taxable Supply, Supply of Goods and Supply of Services, Course or Furtherance of Business, Special Transactions. Time of Supply-Time of Supply - Goods, Time of Supply - Services, Other Points, Transaction Value, Valuation Rules under GST

Module IV

Payment of GST-Procedure; Time of GST Payment, Challan Generation & CPIN, TDS & TCS, Electronic Commerce-Tax Collected at Source (TCS), Procedures for E-commerce Operator. Job Work- Introduction, Concept of Input Tax Credit-Input Service Distributors, Legal Formalities for an ISD, Distribution of Credit, Matching of Input Tax Credit- Returns, GSTR-2, Other Taxable Persons, Annual Return, Uploading Invoices.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Reports from Central Board of Excise & Custom- www.cbec.gov.in
- Systematic Approach to Taxation: Containing Income Tax and GST-Girish Ahuja, Ravi Gupta, Pub. Walters Kluwer
- GST Manual (November 2017 Edition)-Taxmann

COST AND MANAGEMENT ACCOUNTING – II / (PM-F5)

Course Code: BCH 480

L:2, T:1, P/FW:0 C:03

Course Objective:

This paper underpins the knowledge and skills in the area of management accounting and applies the same to evaluate the performance of an entity with the help of budgetary control and standard costing tools. The aim is to set out performance measurement in the context of business objectives.

Learning outcomes:

- Understand & apply modern techniques of management accounting and performance management in private sector and not-for-profit organisation
- Understand & apply decision making techniques in the context of resource optimisation, risk mitigation, promote efficiency
- Divisional performance and transfer pricing and behavioural considerations in performance management

Course Contents:

Module I: Advanced Management Accounting Techniques

Activity-based-costing – cost drivers, calculation of costs per driver & per unit – Target costing – derive a target cost in manufacturing & service industry – Life cycle costing – costs involved at different stages of life cycle – Throughput accounting – theory of constraints – Throughput Accounting Ratio (TPAR) – application in a multi-product entity; and environmental accounting – management of environmental costs – accounting for environment costs

Module II: Advanced Budgetary Control and Standard Costing

Budgetary systems such as top-bottom, bottom-up, rolling, zero based, activity based, incremental budgets, flexed budgets – quantitative analysis using high-low method, applying learning curve model – Advanced variance analysis with material mix & yield variances, sales mix & quantity variances, planning & operational variances – performance analysis with variances – assigning the variances to the managers

Module III: Pricing and Decision Making Techniques

Concept of relevant costs – determination of relevance with regard to a contextual decision – opportunity costs – cost-volume-profit (CVP) relationship – Break-even point and margin of safety – estimation of target profit in single & multi-product scenario – resource optimisation in light of limiting factors – single or multiple factors – make or buy decisions. Factors affecting pricing of product or services – price elasticity of demand – demand equation – calculate optimum selling price with $MR = MC$ equation – pricing strategies such as skimming, penetration, differential, cost-plus pricing

Module IV: Performance Analysis and Divisional Performance

Understand & apply financial & non-financial performance indicators (KPIs) – using Norton's Balanced Scorecard model and Fitzgerald & Moon's Building Block model for performance measurement – using Value-for-money approach for not-for-profit organisations – economy, efficiency & effectiveness approach – Mechanism for evaluating the performance of a business

division and the divisional managers – tools such as Return on Investment (ROI), Residual Income (RI) – impact of transfer pricing on divisional performance – methods of setting transfer prices

Module V: Risk Analysis in Business Decisions and Behavioural Considerations

Understand the risk & uncertainty in short term and their impact on business decisions - apply techniques of maximax, maximin and minimax regret – use of expected value technique – decision tree – value of perfect & imperfect information - Need to factor external considerations in performance management such as environment, market conditions and stakeholder impact – illustrate how behavioural aspects affect the performance of an organisation

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- **Kaplan Publishing, ACCA Performance Management (PM)**
- Arora, M. N. (2015) *Cost and Management Accounting (Theory and Problems)*, 4th Edition, Himalaya Publishing House.
- Jawahar, L & Srivastava, S (2013) *Cost Accounting*, 5th edition, Mc Graw Hill Education.
- Jain, P. K. (2013) *Cost Accounting*, 3rd edition, Tata Mc Graw Hill Education
- Maheshwari, S.N. & Maheswari, S.K. (2012) *Cost Accounting*, 10th Edition, Sultan Chand Publication.

FINANCIAL REPORTING – II / (FR-F7)

Course Code: BCH 481

L:3, T:1, P/FW:0 C:04

Course Objective:

The course underpins the knowledge & understanding of various accounting standards and the conceptual framework (based on IFRS and Ind AS) that are applicable to corporate entities. The students will learn how to prepare financial statements for individual entities for the use of shareholders.

Learning outcomes:

- Application of the IFRS (and Ind AS in India) to various business contexts
- Preparation of single entity financial statement and simple group financial statements

Course Contents:

Module I: Application of Accounting Standards

Standards related to Incomes Taxes, cash flows, Government Grants, effects of changes in foreign exchange rates, investments in associates & joint ventures, leases, financial instruments (excluding hedge accounting & impairment of financial assets), earnings per share, investment property, non-current assets held for sale and fair value measurement

Module II: Preparation of Single Entity Financial Statements

Preparation of statement of changes to equity and cash flow statements for a single entity, statement of profit or loss and balance sheet with adjustments pertaining to the standards covered in module 1)

Module III: Group Accounts - Basics

Concept of group – concepts of parent, subsidiary & associate – concept of control of parent over subsidiary – concept of non-controlling interest – basics of consolidation – identify which entity should prepare consolidated financial statements

Module IV: Preparation of Consolidated Financial Statements

Consolidated financial statements (excluding group cash flow statement) for a simple group with one subsidiary and/or one associate – computation of fair value of net assets, goodwill and Non-Controlling Interest (NCI) on date of acquisition -computation of group reserves on date of consolidation – fair value adjustments on consolidation – effects of intra-group trading on consolidation – effect of disposal of parent’s investment in subsidiary in parent’s individual financial statements and in consolidated financial statements

Model V: Current Developments in Financial Accounting

Concept of integrated reporting – use of integrated reporting by companies – types of capital used in integrated reporting – principles of integrated reporting

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Kaplan Publishing, ACCA Financial Reporting (FR)
- P.C. Tulsian “Tulsian’s financial reporting, S. Chand, March 2014.

- William J. Bruns, Cengage “Financial Reporting & Management Accounting”, Learning India Pvt. Ltd, July 2010.
- C.A. Praveen Sharma “Financial Reporting with Accounting Standards”, Pooja Law Publishing Company, January 2013.
- Raiyani Jagdish, Dr. Gaurav Lodha, “International Financial Reporting Standards and Indian Accounting Practices, New Century Publications.



AMITY UNIVERSITY
— R A J A S T H A N —

AMITY LAW SCHOOL (ALS)

LL.M Constitutional Law

Programme Code: ILM

12426

Duration – 1 Year Full Time

Programme Structure

Credits Summary

LL.M Constitutional Law						
01 Year/ 02 Semesters)						
Semes ter	Core Course (CC)	Domain Electives (DE)	Value Added Course (VAC)	Open Electives (OE)	Non Teaching Credit Courses (NTCC)	Total
I	13	-	-	-	2	15
II	12	-	-	-	-	12

CC = Core Course

DE = Domain Elective

OE = Open Elective

VA = Value Added Course

NTCC = Non- Teaching Credit Courses (NTCC)

Program Specific Outcomes (PSOs)

1. Enabling the art of undertaking doctrinal and empirical research covering a wide area of socio-legal knowledge and implementation of various tools and techniques of research.
2. To develop ability of the students to analyze the legal problems from scholarly and objective point of view and work towards finding solutions to the problems by application of laws and regulations.
3. Apply ethical principles and commit to legal professional ethics, responsibilities and norms of the established legal practices.
4. To Study the specialized Constitutional law courses with a globalized perspective and do a comparative study of the Indian law with other countries.

Program Structure

AMITY LAW SCHOOL (ALS)

LL.M Constitutional Law

SEMESTER-I

Code	Course	Category	L	T	P/F W	Credit Units
ILM 101	Research Method & Legal Writing	CC	3			3
ILM 102	Comparative Public Law/ System Of Governance	CC	3			3
ILM 103	Law And Justice In A Globalizing World	CC	3			3
AND001	Anandam-I	NTCC				2
SPECIALIZED BRANCH (Constitutional Law)						
ILM 104CL	Fundamental Rights, Fundamental Duties and Directive Principles of State Policy	CC	2			2
ILM 105CL	Local Self Government & Federal Government	CC	2			2
Total			13			15

SEMESTER-II

Code	Course	Category	L	T	P/FW	Credit Units
ILM 205	DISSERTATION	CC			3	3
ILM 206	TUTELAGE	CC	1			1
Specialized Branch (Constitutional Law)						
ILM 201 C.L	Centre - State Relations and Constitutional Governance	CC	2			2
ILM 202 C.L	Judicial Review	CC	2			2
ILM 203 C.L	Comparative Administrative Law	CC	2			2
ILM 204 C.L	Minorities Law	CC	2			2
Total			9		3	12

COURSE OUTCOMES

AMITY LAW SCHOOL (ALS) LLM – Constitutional Law

ILM 101-RESEARCH METHOD & LEGAL WRITING

Upon successful completion of this course students will be able to:

1. Students will be able to have a conceptual understand the research, legal research its method and methodology and distinguish them.
2. Students will be able to know the different sources of law and their relationship inter sin in legal & socio-legal research. And also able to understand the content of legal research methods & Legal writing.
3. Students will be able to discuss the fundamental concepts underlying in legal& socio-legal research , research method & Legal writing.
4. Students will be able to read, analyze and understand different legal materials, and to narrate the reasoning employed in the research& Legal writing. .

ILM 102-COMPARATIVE PUBLIC LAW / SYSTEM OF GOVERNANCE

At the successful completion of this course you (the student) should be able to:

1. Investigate the matter that the particular subject matter comes in the ambit of Law of Comparative Public Law / System of Governance.
2. Create in his mind that what are the laws are relating to Parliamentary privileges in UK and India, parliamentary supremacy in UK, Role of Queen and Indian President in comparative perspective.
3. Student will be able to apply principles for the application of Comparison of fundamental rights in India and USA
4. Develop knowledge regarding all rights. Student will come to know that Freedom of speech and expression, freedom of press, assembly and association, freedom of religion and protection of minority rights in India, freedom of religion in USA, Freedom of Profession and trade in India and USA.

ILM 103-LAW AND JUSTICE IN A GLOBALIZING WORLD

Upon successful completion of this course students will be able to:

1. To understand the process of globalization and its impact on law and justice in a historical perspective.
2. To critically analyse the concept of global justice and the mechanisms designed to achieve it.
3. To better appreciate the demands for change raised by different groups to the international legal order and institutions in the light of globalization.

ILM 104 CL- FUNDAMENTAL RIGHTS, FUNDAMENTAL DUTIES AND DIRECTIVE PRINCIPLES OF STATE POLICY

Upon successful completion of this course students will be able to:

1. Analyse and evaluate the nature and meaning of the fundamental rights, fundamental duties and DPSP.
2. Analysis the Co-relation amongst these.
3. Analysis the importance in present scenario when the Supreme Court made in enforceable.
4. Students will able to know about the consequences when any contradiction arisen between these.

ILM 105 CL-LOCAL SELF GOVERNMENT & FEDERAL GOVERNMENT

Upon successful completion of this course students will be able to:

1. Analyse and evaluate the nature and meaning of the different types of Government i.e. federal Government, parliament form of government and local self Government.
2. Analysis the constitution, composition, powers, functions, duties of Gram Panchayat and their importance in democratic country.
3. Analysis the constitution, composition, powers, functions, duties of Urban Panchayat and their importance in democratic country.
4. Students will able to know about the election process of Panchayat and litigation in election matter.

ILM 201 CL - CENTRE - STATE RELATIONS AND CONSTITUTIONAL GOVERNANCE

Upon successful completion of this course students will be able to:

1. This course aims at making the students familiar with the historical background of and the nature of federalism in India. It also gives an understanding of the different forms of Constitutions. Further, it enables the students to understand the judicial perspective over the Indian federalism. The course also aims at enabling the student to understand the legislative, administrative and financial relations between the Union and the States. It shall help the students to understand the principles of interpretation of various lists and the doctrines in relation thereto. Further, the students will be familiarised with the Services under the Union and the States and also the emergency provisions under the Constitution of India. This paper aims at giving the students an insight into the federal structure as envisaged in the Constitution of India and focuses upon educating them about the Legislative, Administrative and Financial relations between the Centre and the States

ILM 202 CL- JUDICIAL REVIEW

At the successful completion of this course the students should be able to be:-

1. Acquainted with the idea and concept of judicial review and various factors responsible for emergence of judicial activism in the society.
2. Able to appreciate the concepts of judicial review and interdisciplinary nature of study of judicial activism and legislative functions and appreciate the role of various other players involved in between.

3. Able to understand the concepts of administration of criminal and civil justice system and fair trial in the background of judicial review

ILM 203 CL-Comparative Administrative Law

1. Enabling the art of undertaking doctrinal and empirical research covering a wide area of socio-legal knowledge and implementation of various tools and techniques of research.
2. To develop ability of the students to analyze the legal problems from scholarly and objective point of view and work towards finding solutions to the problems by application of laws and regulations.
3. Apply ethical principles and commit to legal professional ethics, responsibilities and norms of the established legal practices.
4. To Study the specialized Constitutional law courses with a globalized perspective and do a comparative study of the Indian law with other countries.

ILM204 CL-MINORITIES LAW

Upon completion of the course, the student should demonstrate mastery of the following knowledge and skills:

1. A complete overview of international law and practice in minority rights and indigenous peoples
2. Learn about the current mechanisms in minority rights and indigenous peoples rights, and the gap between UN international rights norms and their implementation on the ground
3. The students will come to know the constitutional provision related to minorities sections.
4. Students will also come to know the defferents state machinery to enforce the minorities rights.

ILM 205-DISSERTATION

At the successful completion of this course you (the student) should be able to:

1. The students are able to understand legal issues at advance level.
2. The students are able to research upon various fields of law and deduce rational decisions out of judicial interpretations.
3. To analyze hypothesis and utilize legal research methodology for justification of legal issues.
4. Projects under the field of law are tested and carried out taking into consideration the legal viewpoints.

STRATEGIC BUSINESS LEADER – I / (SBL-I)

Course Code: BCH 482

L:3, T:1, P/FW:0 C:04

Course Objective:

This paper aims to provide the students with the principles of corporate governance applicable to a business entity. It also covers the ethical framework that managers need to adopt while discharging their duties. It discusses various professional skills that a professional manager needs to acquire and apply.

Learning outcomes:

- Evaluating effectiveness of the governance & agency system
- Applying a range of professional skills in a corporate environment workplace
- Understanding leadership and ethics

Course Contents:

Module I: Corporate Governance

Principle-agent relationship in the context of governance – issues connected with separation of ownership and control over organisation activity – stakeholder analysis (power & interest) using Mendelow matrix and applying it to strategy & governance – CSR and organisation as a corporate citizen in the context of governance

Module II: Governance Approaches & Scope

Role of institutional investors in governance systems – rules v/s principles approach to governance – duties of directors, functions of the Board, composition & balance of the Board – responsibility of the Board for risk management systems & internal control – purposes, roles & responsibilities of non-executive directors

Module III: Public Sector Governance

Compare & contrast the principles of governance in private sector, public sector, charitable trusts and NGOs – linking strategic objectives of a public sector organisation with governance systems

Module IV: Professional Skills in Workplace

Effective communication (verbal & written, formal & informal, hierarchical) – commercial acumen (using judgement, exhibit awareness) – analytical mind (creating information and using it for the purpose of analysis in diagnosing business problems, strategic performance and evaluate strategic alternatives) – scepticism (challenging the status-quo and innovate) – evaluation (assess & appraise the business scenario)- Advise on the implications of collaborative working and partnering, such as franchising, organisation process outsourcing, shared services and global business services.

Module V: Leadership, Ethics & Governance

Qualities of leadership – leadership & organisational culture – ethical codes & leadership in the context of governance – management behaviour & ethics – ethical threats & safeguards against the threats – handling fraud, bribery & corruption- Describe the objectives, content and limitations of, governance codes intended to apply to multiple national jurisdictions [2] i) Organisation for economic cooperation and development (OECD) Report ii) International corporate governance network (ICGN) Global Governance Principles

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Kaplan Publishing, ACCA Strategic Business Leader (SBL)

- Vallabhaneni S Rao, Corporate Management, Governance and Ethics: Best Practices, Wiley Publication,
- Bhatia S K, Business Ethics and Corporate Governance, Deep and Deep Publications Pvt. Ltd
- Fernando AC, Business Ethics and Corporate Governance, Pearson

STRATEGIC BUSINESS REPORTING – I / (SBR-I)

Course Code: BCH 483

L:3, T:1, P/FW:0 C:04

Course Objective:

This paper aims to underpin the expert knowledge and understanding of the corporate reporting practices in a globalised environment. The paper includes fundamental ethical & professional principles related to corporate reporting. It also covers the interpretation of financial statements for different stakeholders.

Learning outcomes:

- Understand the perspective of professional behaviour & compliance with accounting standards
- Reporting financial performance in accordance with accounting & reporting standards
- Interpret financial performance for different stakeholders
- Assess impact of changes in accounting regulation

Course Contents:

Module I: Professional Behaviour & Compliance

Ethical & professional issues in financial reporting – relevance & importance of ethical & professional issues while complying with accounting standards – potential ethical implications of professional & management decisions in preparation of corporate reports – consequences of not upholding ethical principles – implications of related party relationships in preparing corporate reports

Module II: Reporting of Financial Performance

Recognition of revenue for goods & services, contracts, sale with right of return, agency, warranties – Non-current tangible & intangible assets recognition & de-recognition, measurement bases – income taxes including deferred taxes – provisions & contingencies – share based payments – fair value measurement

Module III: Interpretation of Financial Statements

Analysis & interpretation of financial information and measurement of performance – financial & non-financial performance measures – concept of integrated reporting including objectives, concepts, guiding principles and contents thereof – performance of operating segments

Module IV: Changes in Accounting Regulations

Current issues in financial reporting including criticisms on accounting standards – accounting implications of first time adoption of new accounting standards – potential implications of the relevant exposure drafts issued

Module V: First Time Adoption of IFRS/Ind AS

Concept of transition date for 1st time adoption – selection of accounting policies – process of 1st time adoption and its impact of financial performance & financial position of the business – reconciliations & disclosures for the 1st time adoption

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Kaplan Publishing, ACCA Strategic Business Reporting (SBR)
- Villiers, Charlotte, Corporate Reporting and Company Law, Publisher, Cambridge University.

- David Young and Jacob Cohen, *Corporate Financial Reporting and Analysis*, 3rd Edition, Wiley publishing

STRATEGIC BUSINESS LEADER – II / (SBL-II)

Course Code: BCH 582

L:3, T:1, P/FW:0 C:04

Course Objective:

This paper underpins the knowledge, skills and expertise required to assess the business strategies and their impact on business performance. The objective is to equip students with the tools & techniques of assessing strategic position, develop strategic choices and implement the chosen strategy through change management.

Learning outcomes:

- Evaluation of the current strategic position of an entity in the context of external environment, competition with regard to the organisational capabilities, competencies & resources
- Development of strategic choices in the context of existing strategic position and the strategic objectives of different types of organisation
- Use of information technology & data analytics to critically investigate into factors affecting the value chain

Course Contents:

Module I: Concepts of Strategy

Understand & explain the fundamental nature of strategy & strategic decisions in different types of organisation – use of the Johnson, Scholes and Whittington (JSW) model – strategic position, strategic choices and strategy action – use of models such as PESTEL, Porter’s Diamond in assessing environmental impact – Assessing competitive position using models like Porter’s five forces and Porter’s value chain-

Module II: Internal Competencies, Capabilities and Resources

Identify organisation’s capabilities and competencies in light of the strategic position – assessment of these for sustaining competitive position – use of SWOT model to assess organisation’s abilities to assess its capabilities

Module III: Strategic Choices

Evaluate the suitability, feasibility & acceptability of different strategic choices – pros & cons of strategic choices for product/market diversification in a globalised environment – pricing strategies including the 7-P model and its impact on competitive position – managing the organisation’s portfolio & strategies related thereto using the Boston Consulting Group (BCG) matrix – use of Ansoff’s matrix for developing generic strategies – evaluate different choices such as mergers, acquisitions, alliances, joint ventures and franchises- Assess how internal development, or business combinations, strategic alliances and partnering can be used to achieve business growth- Assess the suitability, feasibility and acceptability of alternative sources of short and long term finance, including initial coin offerings (ICO), available to the organisation to support strategy and operations

Module IV: Strategic Action

Implementing strategic plan – aspects of the change management process – challenges of change management – organising & enabling success – business change life-cycle – Harmon’s process-strategy matrix – improving processes in organisation

Module V: Use of Technology in Developing Strategic Alternatives

Use of mobile & cloud technology with their benefits & risks – cloud v/s owned hardware & software – use of big data & data analytics for strategy development – use of data analytics for decisions regarding product development, marketing & pricing – explain the value chain of E-business – IT systems security & control

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- **Kaplan Publishing, ACCA Strategic Business Leader (SBL)**
- Business Policy and Strategic Management, Jauch & Glueck
- Strategic Management, Formulation, Implementation & Control, Pearce & Robinson (McGraw Hill), (9th Edition)

STRATEGIC BUSINESS REPORTING – II / (SBR-II)

Course Code: BCH 583

L:3, T:1, P/FW:0 C:04

Course Objective:

This paper aims to underpin the expert knowledge and understanding of the corporate reporting practices in a globalised environment. The paper includes fundamental ethical & professional principles related to corporate reporting. It also covers the interpretation of financial statements for different stakeholders.

Learning outcomes:

- Reporting of financial performance
- Group financial statements including group cash flow statements and accounting for associates & joint arrangements
- Accounting for changes in group structures
- Foreign transactions & entities

Course Contents:

Module I: Reporting Financial Performance

Recognition and measurement principles for transactions related to - Leases (books of lessee and lessor) - financial instruments (financial assets, financial liabilities, equity, impairment of financial assets, hedge accounting) - employee benefits (including defined contribution plans & defined benefit plans)

Module II: Group Financial Statements

Definition and application of business combination concept - identifying the acquirer & applying the control principle - cost of business combination - principles of recognition & measurement of identifiable assets & liabilities in acquisition - business combination achieved in stages - circumstances when group financials must be prepared and situations in which group accounting can be exempted - group financial statement including cash flows - consolidating joint arrangements & associates

Module III: Changes in Group Structure

Acquisition of subsidiary with a view to sale - implications of loss of control over subsidiary on group accounts - group accounts of a complex group including vertical and D-shaped group, concept of effective ownership - accounting for acquisition in stages - disposal of entities with or without loss of control

Module IV: Foreign Transactions & Entities

Principles of identifying the functional currency of a parent entity - Consolidation of a foreign subsidiary & associate - applying the rules for translation of foreign currency balances into functional currency of a parent - accounting for foreign assets & liabilities

Module V: Current Developments

Environmental & social reporting - convergence between national & international reporting standards - practice of integrated reporting

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Kaplan Publishing, ACCA Strategic Business Reporting (SBR)
- Villiers, Charlotte, Corporate Reporting and Company Law, Publisher, Cambridge University.
- David Young and Jacob Cohen, Corporate Financial Reporting and Analysis, 3rd Edition, Wiley publishing

ADVANCE FINANCIAL MANAGMENT – I / (AFM-I)

Course Code: BCH 584

L:5, T:1, P/FW:0 C:06

Course Objective:

To develop the knowledge and skill expected of a finance manager, in relation to investment, financing, and dividend policy decisions in a globalised environment. The paper also deals with the role of financial manager in financial reconstruction and business reorganisation.

Learning outcomes:

- Understand the role of a senior financial advisor in global environment against the backdrop of ethical framework and governance
- Finance function in a multi-national organisation
- Financial evaluation of mergers & acquisitions for the stakeholders, particularly the shareholders
- Financial evaluation of business reorganisation and financial reconstruction

Course Contents:

MODULE I: ROLE OF SENIOR FINANCIAL ADVISOR

Organizational Goals - Management of Financial Resources - Assessment of Organizational Performance and Financial Risk - Framework for Risk Management - Capital Investment Monitoring - Advising Board of Directors - Best Practice in Financial Management - Inter-connectedness of Functional Areas - Resolution of Stakeholder Conflicts - Ethical Framework - Ethical Financial Policy for Financial Management - Sustainability and Environment Issues - Integrated Reporting and Governance

MODULE II: FINANCE IN MULTI-NATIONAL ORGANISATION

Theory and Practice of Free Trade - Role of International Financial Institutions and Markets and their Impact - New Developments in Macroeconomic Environment - Financial Planning Framework for a Multinational Organization - Dividend Policies - Transfer Pricing of Goods and Services across International Borders

MODULE II: INTERNATIONAL CORPORATE FINANCE

Sources of international finance - Euro bonds, Euro Dollar & Foreign currency bond markets - concept of Islamic financing & products thereof such as Murabaha, Mudaraba, Musharaka, Ijara and Sukuk bonds - role of IMF and WTO

MODULE IV: MERGERS & ACQUISITIONS

Use of Mergers and Acquisitions for Corporate Expansion - Evaluation of Acquisition Proposals - Developing an Acquisition Strategy - Choosing Appropriate Target - Creating Synergies - Reasons for Failure - Reverse Takeovers - Global Regulatory Framework - Key Aspects of Takeover Regulation - Defensive Tactics for Hostile Takeover

MODULE V: BUSINESS REORGANISATION & FINANCIAL RECONSTRUCTION

Business Re-Organisation - Meaning and Types - Divestments, Demergers and Spin-Offs, Management Buy-Outs and Buy-Ins, Firm Value - Reconstruction Schemes - Types of Financial Reconstruction - Financial Reconstruction and Firm Value - Leveraged Buy-Outs - Market Response to Financial Reconstruction

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- **Kaplan Publishing, ACCA Advance Finance Management (AFM)**
- Brigham Eugene F & Daves Phillip R, Intermediate Financial Management, Cengage
- Paul SK, Advanced Financial Management, New Central Book Agency (P) Ltd
- Chandra Prasanna, Financial Management: Theory and Practice, Tata Mc Graw Hill
- Arnold Glen, Essentials of Corporate Financial Management, Financial Times Prentice Hall

ADVANCE PERFORMANCE MANAGEMENT – I / (APM-I)

Course Code: BCH 585

L:5, T:1, P/FW:0 C:06

Course Objective:

This paper aims to underpin the knowledge, skills and expertise in applying strategic management accounting techniques to the practice of enterprise performance management in different business contexts.

Learning outcomes:

- Use of strategic planning and control models in planning and monitoring business performance
- Assessing key external influences on an organisation
- Changes in business structure and performance management
- Designing management information systems

Course Contents:

MODULE I: STRATEGIC PLANNING AND CONTROL MECHANISM

Role of strategic management accounting in strategic planning & control – measuring progress towards achieving strategic objectives – planning & control at strategic & operational levels – managing conflict between strategic long-term objectives & short term decisions – use of models such as SWOT, BCG matrix, Porter’s generic strategies and Porter’s five forces in strategic planning

MODULE II: DEVELOPMENT AND ASSESSMENT OF PERFORMANCE HIERARCHY

Purpose, structure & content of mission statement, vision statement and corporate objectives – identify Critical Success Factors (CSF) of an organisation and it’s linkage with mission/vision & objectives – development of Key Performance Indicators (KPI) for measuring & monitoring performance

MODULE III: EXTERNAL INFLUENCES ON AN ORGANISATION

Impact of risk & uncertainty on performance by applying different risk assessment techniques – use of expected value, decision tree and tools like maximax, maximin and minimax regret – use of PESTEL to assess impact of external influences

MODULE IV: CHANGES IN BUSINESS STRUCTURE AND PERFORMANCE MANAGEMENT

Information needs at different hierarchical levels in a manufacturing & service organisation – influence of business process reengineering in improving performance – role of performance management systems in business integration using Mckinsey’s 7-S structure and value chain – impact of organisation structure & culture on performance

MODULE V: DESIGNING MANAGEMENT INFORMATION SYSTEMS

Role of information system in performance management – integration of management accounting information with the use of Enterprise Resource Planning Systems (ERPS) – lean information systems – internal & external sources of management information – impact of big data analysis – use of technology in recording & processing information such as RFID, unified databases, access controls, data security – use of various management reports evaluating performance, contents & structure of management reports

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Kaplan Publishing, ACCA Advance Performance Management (APM)

- Caldwell Charles M, Performance Management, American Management Association
- Marr Bernard, Strategic Performance Management, Butterworth Heinemann
- Bhattacharyya Dipak Kumar, Performance Management Systems and Strategies, Pearson
- Cokins Gary, Performance Management, Wiley Publication

ADVANCE AUDIT & ASSURANCE- I / (AAA-I)

Course Code: BCH 586

L:5, T:1, P/FW:0 C:06

Course Objective:

This paper underpins the skills and knowledge examined in the Audit and Assurance exam. At this stage candidates will be expected to demonstrate an integrated knowledge of the subject. The study guide specifies the wide range of contextual understanding that is required to achieve a satisfactory standard at this level.

Learning outcomes:

- Recognise the legal and regulatory environment and its impact on audit and assurance practice
- Demonstrate the ability to work effectively on an assurance or other service engagement
- Assess and recommend appropriate quality control policies
- Identify and formulate the work required to meet the objectives of audit assignments

Course Contents:

MODULE 1 - REGULATORY ENVIRONMENT

International regulatory frameworks for audit and assurance services - public oversight of audit and assurance practice - The impact of corporate governance principles on audit and assurance practice - The role of audit committees and impact on audit and assurance practice.

MODULE 2 - CONSIDERATION OF LAWS IN AUDIT

Money laundering - Importance of customer due diligence (CDD) also referred to as Know Your Customer (KYC) - Flagging potentially suspicious transactions - Laws and regulations

MODULE 3 - PROFESSIONAL AND ETHICAL CONSIDERATIONS

Code of Ethics for Professional Accountants - The fundamental principles and the conceptual framework approach - Ethical implications of the external auditor providing non-audit services to a client including an internal audit service - Fraud and error - current and possible future role of auditors in preventing, detecting and reporting error and fraud - Professional liability - practicability and effectiveness of ways in which liability may be restricted including the use of liability limitation agreements.

MODULE 4 - QUALITY CONTROL AND PRACTICE MANAGEMENT

Quality control (firm-wide) - Elements of a system of quality control relevant to a given firm. - Advertising, tendering and obtaining professional work and fees - Appropriateness of publicity material including the use of the ACCA logo and reference to fees - Professional appointments - client acceptance; engagement acceptance (new and existing engagements) - Establishing the preconditions for an audit - Agreeing the terms of engagement

MODULE 5 - CURRENT ISSUES AND DEVELOPMENTS

Professional and ethical developments - Emerging ethical issues and evaluation of the potential impact on the profession, firms and auditors - The content and impact of exposure drafts, consultations and other pronouncements issued by IFAC and its supporting bodies - Other current issues - Current developments in business practices, practice management and audit methodology - Big data and the use of automated tools and techniques such as data analytics and the potential impact on the conduct of an audit and audit quality.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Reference book:

- **Kaplan Publishing, ACCA Advanced Audit and Assurance (AAA)**

STRATEGIC BUSINESS LEADER – III / (SBL-III)

Course Code: BCH 682

L:3, T:1, P/FW:0 C:04

Course Objective:

This paper underpins the knowledge, skills and expertise required to assess the business strategies and their impact on business performance. The objective is to equip students with the tools & techniques of assessing strategic position, develop strategic choices and implement the chosen strategy through change management.

Learning outcomes:

- Understand and apply the process of risk management
- Organisation control and audit
- Finance function in planning & decision making
- Innovation and change management

Course Contents:

Module I: Risk Management

Identification, assessment & measurement of risk – framework of risk management systems – concepts of risk appetite and risk response – strategic & operational risks – assessing severity & probability of risk events – TARA framework for risk responses by management – monitoring of risks management strategies

Module II: Organisation Control & Audit

Features of effective internal control system – information flow for internal control – evaluating effectiveness of internal control system – role of internal control systems to help prevent fraud, errors & waste – importance of internal audit function – audit independence – effective audit committee – reporting on internal control & audit – linkage with financial reporting

Module III: Finance Function in Planning & Decision Making

Relationship between business strategy and financial objectives – developments in financial technology – alternative structures for finance function such as partnering, outsourcing, shared or global business services – role of finance function in investment decisions, financial reporting, tax implications, financial KPIs and ratios use of advanced cost and management accounting techniques

Module IV: Innovation Management

Enabling organisation success through organising, disruptive technology, talent management & performance excellence using concepts of FinTech, POPIT, Baldrige model and empowerment

Module V: Change Management

Different types of strategic change & its implications – assess organisation culture using Balogun & Hope Hailey's contextual features – managing change using Lewin's 3 stage model – assessing effectiveness of organisational processes & change therein using Harmon's process-strategy matrix – leading and managing change projects – post project reviews

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- **Kaplan Publishing, ACCA Strategic Business Leader (SBL)**
- Business Policy and Strategic Management, Jauch & Glueck
- Strategic Management, Formulation, Implementation & Control, Pearce & Robinson (McGraw Hill), (9th Edition)

ADVANCE FINANCIAL MANAGEMENT – II / (AFM-II)

Course Code: BCH 684

L:5, T:1, P/FW:0 C:06

Course Objective:

To develop the knowledge and skill expected of a finance manager, in relation to investment, financing, and dividend policy decisions in a globalised environment. The paper also deals with the role of financial manager in investment appraisal, fund raising and financial risk management.

Learning outcomes:

- Using advanced investment appraisal techniques & estimating cost of capital
- Financing of investment including international investments
- Advanced risk management techniques
- Mergers and acquisitions

Course Contents:

MODULE I: ADVANCED INVESTMENT APPRAISAL TECHNIQUES

Merits & demerits of traditional techniques like NPV and IRR – use of modified IRR – concept of duration and modified duration – adjusted present value method (APV) (impact of financing on project NPV) – use of options theory in evaluating investment projects having embedded real option (using Black-Scholes model) – Assessing Value at risk (VaR model) – multi-period capital rationing (linear programming (only setting up LP problem & interpreting the output) – estimating project specific cost of capital using MM model and process Beta and CAPM

MODULE II: COST OF CAPITAL

Approaches to capital structure – capital structure theories and their impact on cost of capital & company valuation – use of MM prepositions in financial management

MODULE III: INTERNATIONAL PROJECT APPRAISAL

Financial evaluation of international projects – estimating exchange rates using purchasing power parity (PPP) and interest rate parity (IRP) equations – applying Fischer equation – estimating cash flows and estimating relevant cost of capital – effect of double taxation avoidance agreements – exchange controls & withholding taxes

MODULE IV: ADVANCED RISK MANAGEMENT

Role of treasury in financial risk management – organising treasury function (centralised v/s decentralised) – transaction, translation & economic risks related to currency fluctuations – currency hedging tools (internal – currency of invoice, leading & lagging, matching, netting and external – forwards, futures, options & swaps, money market) *candidates are expected to illustrate working knowledge of setting up the hedging* – managing interest rate risk through different techniques (internal – matching & smoothing, asset/liability management, external – forward rate agreement (FRA), futures, options and swaps)

MODULE V: MERGERS & ACQUISITIONS

Principles of Business Valuation - Asset-Based Models - Market-Based Models - Cash-Based Models - Valuation of High Growth Start-Ups & firms with Product Options - Methods of Financing Mergers - Assessing a Given Offer - Effect of an offer on Financial Position and performance

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- **Kaplan Publishing, ACCA Advance Financial Management (AFM)**
- Brigham Eugene F & Daves Phillip R, Intermediate Financial Management, Cengage
- Paul SK, Advanced Financial Management, New Central Book Agency (P) Ltd
- Chandra Prasanna, Financial Management: Theory and Practice, Tata Mc Graw Hill
- Arnold Glen, Essentials of Corporate Financial Management, Financial Times Prentice Hall

ADVANCE PERFORMANCE MANAGEMENT – II / (APM-II)

Course Code: BCH 685

L:5, T:1, P/FW:0 C:06

Course Objective:

This paper aims to underpin the knowledge, skills and expertise in applying strategic management accounting techniques to the practice of enterprise performance management in different business contexts.

Learning outcomes:

- Applying strategic performance measurement in private sector organisations
- Divisional performance & transfer pricing issues
- Strategic performance measures in not-for-profit organisations
- Alternative views of performance measurement & management

Course Contents:

MODULE I: PERFORMANCE MEASUREMENT IN PRIVATE SECTOR

Primary performance objectives – measuring financial KPIs such as ROCE, ROI, EPS, EBIDTA, Residual income, Economic value added (EVA), liquidity & gearing ratios – Non-financial performance indicators

MODULE II: DIVISIONAL PERFORMANCE & TRANSFER PRICING

Evaluation of performance in divisional organisation – use of ROI, RI and EVA tools – divisional performance and manager’s performance assessment – effect of transfer pricing on divisional performance – transfer pricing methods and objective of goal congruence – transfer pricing in international environment

MODULE III: PERFORMANCE MANAGEMENT SYSTEMS - PMS

Components of a PMS - Developing PMS in context of an organisation – use of technology in the PMS – reporting for different management levels using PMS – PMS and reward system

MODULE IV: PERFORMANCE MEASUREMENT IN NOT-FOR-PROFIT ORGANISATIONS (NFP)

Assess diversity of performance objectives in NFP organisation – difficulties in measuring performance of NFPs – use of league tables in managing performance – Value-for-money (VFM) approach – use of non-financial performance indicators

MODULE V: ALTERNATIVE VIEWS OF PERFORMANCE MANAGEMENT

Use of management accounting techniques such as Kaizen costing, target costing, JIT and TQM – six sigma approach – performance measurement models such as balanced scorecard, building blocks, performance pyramid – value based and activity based performance measurement – performance issues in complex structures such as joint ventures, alliances -predicting & preventing corporate failures using Z-score and A-score models

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- **Kaplan Publishing, ACCA Advance Performance Management (APM)**
- Caldwell Charles M, Performance Management, American Management Association
- Marr Bernard, Strategic Performance Management, Butterworth Heinemann
- Bhattacharyya Dipak Kumar, Performance Management Systems and Strategies, Pearson
- Cokins Gary, Performance Management, Wiley Publication

ADVANCE AUDIT & ASSURANCE- I / (AAA-I)

Course Code: BCH 586

L:5, T:1, P/FW:0 C:06

Course Objective:

This paper underpins the skills and knowledge examined in the Audit and Assurance exam. At this stage candidates will be expected to demonstrate an integrated knowledge of the subject. The study guide specifies the wide range of contextual understanding that is required to achieve a satisfactory standard at this level.

Learning outcomes:

- Recognise the legal and regulatory environment and its impact on audit and assurance practice
- Demonstrate the ability to work effectively on an assurance or other service engagement
- Assess and recommend appropriate quality control policies
- Identify and formulate the work required to meet the objectives of audit assignments

Course Contents:

MODULE 1 - REGULATORY ENVIRONMENT

International regulatory frameworks for audit and assurance services - public oversight of audit and assurance practice - The impact of corporate governance principles on audit and assurance practice - The role of audit committees and impact on audit and assurance practice.

MODULE 2 - CONSIDERATION OF LAWS IN AUDIT

Money laundering - Importance of customer due diligence (CDD) also referred to as Know Your Customer (KYC) - Flagging potentially suspicious transactions - Laws and regulations

MODULE 3 - PROFESSIONAL AND ETHICAL CONSIDERATIONS

Code of Ethics for Professional Accountants - The fundamental principles and the conceptual framework approach - Ethical implications of the external auditor providing non-audit services to a client including an internal audit service - Fraud and error - current and possible future role of auditors in preventing, detecting and reporting error and fraud - Professional liability - practicability and effectiveness of ways in which liability may be restricted including the use of liability limitation agreements.

MODULE 4 - QUALITY CONTROL AND PRACTICE MANAGEMENT

Quality control (firm-wide) - Elements of a system of quality control relevant to a given firm. - Advertising, tendering and obtaining professional work and fees - Appropriateness of publicity material including the use of the ACCA logo and reference to fees - Professional appointments - client acceptance; engagement acceptance (new and existing engagements) - Establishing the preconditions for an audit - Agreeing the terms of engagement

MODULE 5 - CURRENT ISSUES AND DEVELOPMENTS

Professional and ethical developments - Emerging ethical issues and evaluation of the potential impact on the profession, firms and auditors - The content and impact of exposure drafts, consultations and other pronouncements issued by IFAC and its supporting bodies - Other current issues - Current developments in business practices, practice management and audit methodology - Big data and the use of automated tools and techniques such as data analytics and the potential impact on the conduct of an audit and audit quality.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Reference book:

- Kaplan Publishing, ACCA Advanced Audit and Assurance (AAA)

BUSINESS MATHEMATICS

Course Code: BCH120

L:2, T:1, P/FW:0 C:03

Course Objective:

To familiarize the students with basic mathematical tools and the application of the same to business and economic situations

Course Contents:

Module I: Set Theory

Set, Subset, Types of Sets Operations on sets Venn Diagram, Demorgan's Laws, Applications of Set theory, Laws of indices.

Module II: Compound Interest and Annuities

Certain different types of interest rates; Concept of present value and amount of a sum; Types of annuities; Present Value and amount of an annuity, including the case of continuous compounding; valuation of simple loans and debentures; problems relating Sinking Funds.

Module III: Matrices and Determinants

Definition of a matrix; Types of matrices; Algebra of matrices; properties of determinants; calculation of values of Determinants upto third order; Adjoint of a matrix, Finding inverse of a matrix; Rank of a matrix, Solution of system of linear equations by Cramer's Rule and Matrix Inverse Method (including not more than three variables).

Module IV: Differentiation

Definition; Derivative using first Principle; Method of Differentiation of sum, difference, product and Quotient of two functions; Derivative if composite, inverse, exponential, Logarithmic, parametric and Implicit functions; second order derivative. Maxima and minima

Module V: Integration

Integration as anti-derivative process; Standard forms; Method of Integration by substitution, by parts and by use of partial fractions. Definite integral and their properties; Finding areas in simple cases; Determination of Cost, revenue and demand function; Consumer's surplus and Producer's surplus.

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Soni R.S. (1996). Business Mathematics, Pitamber Publishing House
- Sancheti D.C, & Kapoor, V.K, (2011). Business mathematics, 11th Ed, Sultan Chand & Sons
- Sharma R.D, (2010), Mathematics, Vol 1, Dhanpat Rai Publications.

FUNDAMENTALS OF COMPUTER IN BUSINESS

Course Code: BCH 215

L:2, T:01, P/FW:0 C:03

Course Objective:

To provide computer skills and knowledge for commerce students, and to make them complacent with the use of new tools of IT

Course Contents:

Module I

General features of a Computer. Generation of computers, Personal Computer, Workstation, Mainframe Computer and super Computers, Computer applications – data processing, information processing, commercial, office automation, industry and engineering, healthcare, education, graphics and multimedia

Module II

Computer organization; Central processing module, Computer memory- primary memory and secondary memory, Secondary storage devices – magnetic and optical media, Input and output modules; Introduction to E-Commerce, Role of IT in Business

Module III

Computer hardware and software; Machine language and high level language, Computer program; Computer virus, Antivirus and Computer security, Internet, Intranet and Extranet, Computer arithmetic, Binary, octal and hexadecimal number systems, Algorithm and flowcharts, Introduction to database and its applications,

Module IV

Introduction to MS Office – MS-Word: Editing a Document – Move and Copy text – Formatting text and paragraph – Finding and Replacing text and spelling checking – Using tabs, Tables, and other features, Enhancing document – using mail merge and other features; MS-Excel: Introduction to Worksheet- Getting started with excel – Editing Cells and using commands and functions – Moving And Coping, Inserting and Deleting Rows and Columns – Getting help and formatting a worksheet – Printing the worksheet – Creating Charts – using formulae and functions in excel; MS-PowerPoint: Introduction to Power Point Presentation.

Module V

Information System (IS) - Concept, need and characteristics of IS - data, information and data life cycle - factors important in planning process, systems approach to management, IS, decision support systems - Steps in system analysis, design and implementation of problems. Introduction to MIS, DSS, EIS,OSS-TPS,PCS and OAS.

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Saxena, S., & Chopra, P. (2009). Computer Application in Management, 2nd Ed, Vikas publishing House
- Shrivastava, C. (2009) Fundamentals of Information Technology, 3rd Ed, Kalyani Publishers

FUNDAMENTALS OF INVESTMENT

Course Code: BCH 505

L:2, T:1, P/FW:0 C: 03

Course Objective:

To introduce students to different investment alternatives – its valuation analysis and investor protection

Course Contents:

Module I: The Investment Environment

The investment decision process, Types of Investments – Commodities, Real Estate and Financial Assets, the Indian securities market, the market participants and trading of securities, security market indices, sources of financial information, concept of risk and return, Impact of Taxes and inflation on return.

Small savings instruments

Introduction to mutual funds and **Insurance, Retirement, Tax & Estate Planning**: Various retirement products and their features, Tax aspects of Investment products, The Wealth Tax Act and its implication for clients, Estate Planning.

Module II

Valuation of Fixed Income Securities:

Valuation of Bond, government security, Absolute (Intrinsic) Valuation, Relative Valuation, Bond Pricing Fundamentals, Clean and dirty prices and accrued interest, Bond Yields, Coupon yield, current Yield, Yield to maturity, Yield to call, Interest Rates, Short Rate, Spot Rate, Forward Rate, The term structure of interest rates.

Module III: Security Analysis

Fundamental Analysis: Economic Analysis, Industry Analysis, Company Analysis, Technical Analysis

Module IV: Risk & Return: The concept of Risk, The Common Types of Risk, Measurement of risk, The concept of return, the various return concepts. Risk Acceptance – Active vs Passive. The concept of compounding, the computation of Real rate of return vs. nominal return, the computation of Tax adjusted return, the concept of Risk-adjusted Returns.

Module V: Financial Planning: Concept and parameters of financial planning, the need for financial advisory services, the scope of financial advisory services, Robo advisory. The business model for the delivery of financial advice to client, assets, liabilities and net worth, the preparation of budget, the financial planning delivery process.

Module VI: Investor Protection

SEBI & role of stock exchange in investor protection, investor grievances and their redressal system, insider trading, investors' awareness and activism.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Chandra, P.(2002), Investment Analysis, Tata McGraw Hill
- Fischer, D.E. and Jordan, R.J. (1995), Security Analysis & Portfolio Management, Prentice Hall of India
- Bhat, Sudhindra;(2009); Security Analysis & Portfolio Management; Excel Books
- Dash, A.P.:(2009); Security Analysis & Portfolio Management; I.K. International

FINANCIAL MARKETS, INSTITUTIONS AND FINANCIAL SERVICES

Course Code: BCH 506

L:2, T:01,P/FW:0 C:03

Course Objective:

To introduce students to different financial institutions, Markets and the services which are available in India?

Course Contents

Module I: Financial Markets

Capital Market: Impact of monetary policy, Industrial securities market, Primary market and Secondary market. Govt. Securities Market, Long Term Loan Market Money Market: Call money market, Treasury bills market, Commercial bills market, Short Term Loan Market Commercial papers and certificates of deposits, Discount and Finance House of India, Government Securities Market, Recent developments.

Module II: Financial Institutions / Intermediaries

Evolution of banking in India: Recent Banking Structure in India: Central bank: RBI, Commercial Banks, Cooperative Banks, Regional Rural Banks, NABARD, SEBI. Development banks, IFCI.

Non-Banking Finance Companies, Insurance Companies, AMC, LIC, GIC, EXIM Bank, NHB Stock Exchange, SEBI

Module III: Financial services in India:

Concept and classification of financial services, Difference between financial service and product, Discounting Factoring and Forfeiting, Factoring vs. leasing, Hire Purchase; Credit card: The concept, types, advantages and disadvantages. Credit Rating, wealth management, Issue Management, Merchant banking, underwriting, financial or investment advisory, Venture capital, Corporate restructuring, Housing and industrial Finance.

Module IV: Mutual funds Management

Meaning and features of a mutual fund, key terms and concepts associated with mutual funds, The regulatory framework for mutual funds, the various types of mutual fund products, Taxation of Mutual Fund Products, the investment options in mutual funds. The processes associated with investing in mutual funds, the uses and processes of conducting systematic transactions, benefits of investing with mutual funds.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

- Text & References:
- Bharti Pathak; Indian Financial System Pearson Education
- Gordon and Natarajan, Financial Markets and Services, Himalaya Publishing House.
- Khan, M.Y, Financial Services, Tata McGraw Hill.
- Jeff Madura, Financial Markets and Institutions, South-Western College Publishing.
- B.C Vasant Desai, The Indian Financial System, Himalaya Publishing House.
- Bhole L.M, Financial Institutions and Markets, Tata McGraw Hill.

INTERNATIONAL BUSINESS

Course Code: BCH 509

L:2, T:1, P/FW:0 C:03

Course Objective:

To introduce students to the contemporary issues in International Business that illustrate the unique challenges faced by managers in the international business environment.

Course Contents:

Module I: Introduction to International Business

Nature and scope of international business, International business environment, Classical theory of international trade: Absolute cost advantage theory, comparative cost theory, and Modern theory of international trade. Michael Porter model of competitive advantage of nations, Globalization - forces, Meaning, dimensions and stages in Globalization

Module II: International Business Environment

Tariff and non-tariff barriers, General Agreement on Trade and Tariffs (GATT), World Trade Organization, Important Ministerial Conferences & their outcomes, Dispute settlement mechanism under WTO, Regional Integrations, Trade Blocks - nature and levels of integration, arguments for and against regional integration.

Module III: Modes of International Entry

International Business - Entry modes, Franchising, Exporting, Licensing, International Agents, International Distributors, Cross Border Mergers & Acquisitions, Strategic Alliances, Joint Ventures, Overseas Manufacture and International Sales Subsidiaries, Outsourcing, FDI, FII, PFI

Module IV: International Financial Management

Introduction to International Financial Management -International Monetary System, exchange rate system (floating and fixed) Financial Markets and Instruments- Introduction to Export and Import Finance - ECGC & EXIM Bank, Methods of payment in International Trade: Letter of Credit, Banker's Acceptance, Draft.

Module V: Forex Exposure

Country Risk Analysis, Political, Social and Economic, Types of Forex Exposure: Accounting, Operating & Transaction - their management, An introduction to interest rate exposure.

Module VI: Foreign Trade Procedure

An Introduction to Foreign trade Policy and its impact on different sectors of the Economy. Documentation Framework: Types, Characteristics of Document, Export Contract - INCO Terms -Processing of an Export Order.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References

Charles W L Hill. and Arun Kumar Jain (2007), International Business: competing in the global market place, Mc Graw-Hill

John D. Daniels Lee H Radebaugh, (2007), International Business: Environments and Operations. Addison Wesley.

Cherulinam, Francis, International Business, 3rd edition, Prentice Hall India



Course Name	Course Code	LTP	Credit	Semester
HUMAN RESOURCE MANAGEMENT	BCH512	2:01:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Learn and be sensitized about HRM frameworks and HRM role in overall management of an organization
CLO 2	Develop an understanding of key HRM theories and processes and how they apply to the world of work
CLO 3	Evaluate, design and formulate various HRM processes such as recruitment, orientation, selection, training, appraisals and reward system, compensation etc
CLO 4	Evaluate the developing role and trends of HRM in global arena

B. SYLLABUS

Course Contents:

Module I

Human Resource Management - Meaning of HRM, Importance of HRM, Objectives and functions, Process of HRM, systems and techniques, Role of human resource manager, duties and Responsibilities of human resource manager.

Module II

Human Resource planning, Meaning and importance of Human resource planning, benefits of human resource planning. Job Analysis, Job Description and Job Specification. Recruitment and Selection- Uses of tests in selection

Module III

Training- Meaning of Training, Need for training, benefits of training, identification of training needs, methods of training. Issues related with Induction and Placement.

Module IV

Performance Appraisal and Compensation - Meaning of performance appraisal, objectives of Performance appraisal, methods of performance appraisal and limitations. Principles and Techniques of wage fixation, job evaluation, compensation - meaning of compensation, objectives of compensation.

Module V

Promotion and Transfers - Purpose of promotion, basis of promotion, meaning of transfer, reasons for transfer, types of transfer, right sizing of work force. Need for right sizing.
Work Environment - Fatigue, monotony and boredom, Industrial accidents, Employee safety, Morale, Grievance and Grievances handling.

Module VI

HRD - Meaning and Importance of HRD. Knowledge management, knowledge resources. Impact of globalization on human resource management

Evaluation Scheme:

Components	A	CI	CA	EE
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Weightage (%)	5	15	30	50
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Text & References:

- C.B. Mamoria, Personnel Management.
- Edwin Flippo, Personnel Management.
- Aswathappa. K, Human Resource Management
- Subba Rao, Human Resources Management.
- Michael Porter, HRM and Human Relations.
- Biswanath Chosh, Human Resource Development and Management.



Course Name	Course Code	LTP	Credit	Semester
INDUSTRIAL RELATIONS AND LABOUR LAWS	MBA324	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Students will learn the main provisions of labour standards, concepts, institutions and approaches to industrial relations and collective bargaining.
CLO 2	Will develop skills of dealing with unions, negotiating collective agreements and to identify approaches to promotion of sound labour management relations.

B. SYLLABUS

Module I: Industrial Relations and Collective Bargaining

Industrial Relations-conceptual and legal framework, Collective Bargaining-an overview, Bargaining and Negotiating skills, Workers Participation in Management, ILO conventions, Sound Labour Management Relations, Grievance Redressal Machinery, Industrial Relations after globalization

Module II: Introduction to Labour Laws

Labour Law Origin - Purpose - Role of the State - Constitutional Provisions – Fundamental Rights and Directive Principles of State Policy

Module III: Health and Safety, Conditions of Employment

Factories Act, 1948, Industrial Employment (Standing Orders) Act, 1946. Discipline and Disciplinary Procedure

Module IV: Laws for handling Industrial Disputes and Contract Labour

Industrial Disputes Act 1947, Contract Labour (Regulation & Abolition) Act, 1970

Module V: Trade Unions

Trade Unions: Meaning, Functions, Problems, Trade Unions Act, 1926

Module VI: Wage Related Laws

Minimum Wages Act, 1948, Payment of Wages Act 1936, Equal Remuneration Act 1976, Payment of Bonus Act 1965

Module VII: Employee Benefits and Social Security related laws

Payment of Gratuity Act, 1972; Provident Fund Act 1952, Workmen's Compensation Act 1923, E.S.I.C. Act, 1948, Maternity Benefit Act 1961, The Apprentices Act 1961.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text &References:

- Bagri, P.R. (2006), Law of Industrial Disputes, Kamal Law House.
- C.S. Venkata Ratnam (2006), Industrial Relations, Oxford Higher Education
- Kumar H.L. (2010) Labour Laws - Everybody Should Know, Universal Law Publishing Company
- Malhotra, O.P (1985), Law of Industrial Disputes, N.M. Tripathi Pvt. Ltd.
- Malik, P.L (2008), Industrial Law-Eastern Book company.
- Mamoria CB (1998), Dynamics of Industrial Relations, Himalaya Publishing House.



Course Name	Course Code	LTP	Credit	Semester
CORPORATE TAX PLANNING	BCH516	02:01:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the legal and procedural structure of corporate taxation in India
CLO 2	Apply deductions & relaxations available and set off and carry forward losses and depreciation
CLO 3	Classify and compute gross total income & total Income for companies
CLO 4	Understand the Tax planning with reference to various crucial decisions of the management of the company

B. SYLLABUS

Course Contents:

Module I

Basic Concepts - Assessment year - Previous year - Person - Assessee - Income - Gross Total income - Total income - Capital Asset - Company - Capital Receipts Vs Revenue Receipts - Capital Expenditure Vs Revenue Expenditure - Method of Accounting - Amalgamation. Residential status and Tax incidence - Incomes exempt from tax.

Module II

Computation of Profits and Gains of Business or Profession - General Principles - Deductions and Allowances - Deemed Profits - Income from undisclosed sources - Valuation of stock - Problems on computation of Income from Business or Profession.

Module III

Definitions of Indian Company, Domestic Company, Foreign Company, Industrial Company, Widely held company, closely held company, Investment company, consultancy service company and Trading Company. Deductions available to company - Carry forward and set-off of losses in case of certain companies - Tax on undistributed profits of domestic companies - Problems on computation of taxable income of corporate assessee.

Module IV

Tax Consideration in specified managerial decisions and their implications on cash flow, make or buy, own or lease, retain or replace, export or domestic sales, shut down or continue, purchase by installment or hire, Expand or Reduce the size of business.

Module V

Tax consideration in special areas - Foreign collaboration agreements, Mergers, Amalgamation, Reconstructions and Acquisitions - Capital structure and dividend policy - depreciation and other allowances - New Industrial undertakings and tax reliefs - Personnel compensation plan.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

Lakhotia, R.N., and S.Lakhotia, Corporate Tax Planning Hand Book, Vision Books, New Delhi.
 Vinod K. Singhanian, Direct Taxes: Law and Practice, Taxmann publications, New Delhi.
 Mehrotra and Goyal, Income Tax Law and Practice, Sahitya Bhawan, Agra.
 Palkivala, N.A. and Palkivala B.A., Kanga and Palkivala's Law & practice of Income Tax, N.M. Tripathi.



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Bhagwati Prasad, Direct Taxes Law and Practice, Wishwa Prakash, New Delhi
B.B. Lal, Direct Taxes Practice and Planning, Konark



BUSINESS DATA PROCESSING

Course Name	Course Code	LTP	Credit	Semester
BUSINESS DATA PROCESSING	BCH518	2:01:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Describe an understanding of complete end to end business data analysis process
CLO 2	Explain and demonstrate knowledge of data processing, data storage and data retrieval using relational database structure
CLO 3	Reflect on different data storage possibilities available for business data
CLO 4	Apply analytical skills for implementation of business data processing using Business Intelligence and Reporting tools

B. SYLLABUS

Course Contents:

Module I: Introduction to DBMS

Basics of Business Data Processing, Concept of Database, Table, (Relation), Attributes, Primary Key, Foreign Key, Concept of RDBMS. Introduction to ORACLE Features, DSS, Data warehouse, Data Mart, Web Server, Role & responsibilities of ORACLE DBA

Module II: Introduction to SQL

Features of SQL, SQL statements .i.e. DDL - CREATE, ALTER - ADD, MODIFY, DELETE clauses , DML - INSERT, UPDATE, DELETE SELECT statement with WHERE, ORDER BY, GROUP BY, HAVING Clauses, Set operations in SQL, Nested queries, GRANT and REVOKE

Module III: Functions and Introduction to PL / SQL

MAX, MIN SORT, COUNT, AVERAGE Numeric, String Functions, Conversion Functions like TO_CHAR, TO_DATE, Date Functions. Difference between SQL AND PL/SQL, Block definition structure, Block Functions - %Type, %RowType, IF.....ELSE ...END IF Statement, FOR...LOOP.. END LOOP, WHILE...LOOP... END LOOP

Module IV: Concept of Cursors and Triggers

Types- Implicit, Explicit Open, Close cursor. Block Level, Field level triggers, Simple example to be solved with Form

Module V: Working with forms Menus and Reports

Basic Concept, Application Development in Form, Creating a Form, Running a Form, Form Triggers, maintaining Standards in Forms, Master Detail Forms, Libraries and Alerts; Using Default Menu, Using custom menu Attaching a Menu Module to a Form, Opening a Form through a menu Features, Defining data Module for a Report, Specify Runtime Parameter form for report, specify runtime parameter form for a report.

Evaluation Scheme:

Components	A	CI	CA	EE
Weightage (%)	5	15	30	50

Text & References

- An introduction to database:- Date C.J.
- Commercial Application Development Using Developer 2000 by Ivan Bayross.
- Structured Query Languages (SQL) By Osborne.
- SQL - Scott Urman
- Teach yourself ORACLE 8 - Ed.Whalen in 21 days.



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Course Name	Course Code	LTP	Credit	Semester
MARKETING MANAGEMENT	MBA104	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Develop understanding of core concepts of marketing and the role of marketing in business and society.
CLO 2	Ability to analyze marketing problems and provide solutions based on a critical examination of marketing information.
CLO 3	Critically analyse and apply marketing strategies based on product, price, place and promotion objectives, under ethical consideration of different market situations.
CLO 4	Develop an integrated marketing communications plan, which includes promotional strategies, unique marketing mixes and selling propositions for specific product offerings.
CLO 5	Develop the ability to collect, process, and analyze consumer data to make informed marketing decisions

B. SYLLABUS

Module I: Introduction

Nature and Scope of Marketing; Core Marketing Concepts; Evolution of modern marketing concept; Modern marketing concepts; Marketing Mix; emerging trends in marketing, Environmental Scanning

Module II: Product and Pricing Decisions

Product - concept and classification; Major product decisions; New product development; Product life cycle – concept and appropriate strategies adopted at different stages, Pricing policies and strategies.

Module III: Distribution Decisions

Channels of distribution – concept and importance; Role of Channel intermediaries and their functions; Channel management; Distribution logistics – concept, importance and major logistics decisions; Channel integration and systems

Module IV: Differentiation Segmentation Targeting and Positioning

Differentiation, Market Segmentation, Targeting and Positioning: Bases for segmenting a consumer market; Levels of market segmentation; Factors influencing selection of market segments; Criteria for effective market segmentation; Target market selection and strategies; Positioning – concept, bases and process

Module V: Consumer Behavior

Consumer vs. business buying behavior; Consumer buying decision process and influences

Module VI: Integrated Marketing Communication

Integrated Marketing Communication – Concept; Communication process and promotion; determining promotion mix; Factors influencing promotion mix; Ethical issues in promotion decisions.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Kotler, P., Keller, K. L., Koshy, A. & Jha, M. (2013), Marketing Management– A South Asian Perspective, 14th Ed, Pearson India
- Lamb, C. W., Hair, J. F., & McDaniel, C. (2015). Mktg, 8th Ed, Cengage Learning.
- Etzel, M. J., Walker, B. J., Staton, W. J., & Pandit, A. (2008). Marketing Concepts and Cases, 13th Ed, Tata McGraw Hill (Special Indian Edition).
- Czinkota, M. (2010). Marketing Management, 10th Ed, Cengage Learning.
- Kazmi, S. H. H. (2007). Marketing Management –Textand Cases, 1st Ed, Excel Books.
- Kumar, A., & Meenakshi, N. (2010). Marketing Management, 2nd Ed, Vikas Publishing House.
- Zikmund, W. G., & D'Amico, M. (1998). Marketing: Creating and Keeping Customers in an Ecommerce World, 6th Ed, South-Western College Publication



Course Name	Course Code	LTP	Credit	Semester
PERSONAL FINANCE MANAGEMENT	BCH592	2:01:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	make informed decisions about real world financial issues.
CLO 2	make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success
CLO 3	Understand basic principles needed for effective personal finance management, including the practical applications of money management, budgeting, taxes, credit, insurance, housing, investments, and retirement planning.

B. SYLLABUS

Course Contents:

Module I: Introduction to personal financial planning

Concept of Personal Financial Planning: Need, Significance, Scope; Ethical issues in Personal Financial Planning.

Module II: Investment Avenues

Real Assets: Investment in Real Assets: Real Estate, Their relative merits & demerits. Commercial Vs Residential Property; Financial Assets: Bank Saving Schemes, Insurance Policies, Post Office instruments, Government Saving Schemes, Bullions; Capital Assets: Investments in securities: Primary & Secondary Market. Investment in G-sec; Debt instruments, Mutual Funds.

Module III: Goal Planning

Concept of risk assessment of individual, Introduction to portfolio management, Investment for major goals: House, Family, Education, Medical. Retirement planning & investment: Income generation after retirement, liability management, anticipation of expenses.

Module IV: Tax planning

Concept, significance and problems of tax planning, Tax evasion and tax avoidance, Individual Taxation Slabs, Wealth Tax, Gift Tax, Capital Gains Tax, Service tax, Recent Tax saving schemes

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Chandra P, Investment analysis and Portfolio Management, 3rd edition, Tata McGraw Hill
- Ryan Joan S. "Managing Your Personal Finances, South-Western Cengage Learning, 6th edition 2010.
- Jeff Madura, Mike Casey, Sherry J. Roberts "Personal Financial Literacy "Pearson Education, Inc./Prentice-Hall Publishing, 2010
- CPFA NISM Module



Course Name	Course Code	LTP	Credit	Semester
FINANCIAL STATEMENT ANALYSIS	BCH595	2:01:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	analyze and interpret public companies' financial statements.
CLO 2	process of business analysis and valuation through the evaluation of financial statements.

B. SYLLABUS

Course Contents:

Module I: Introduction

Meaning, Significance, objectives, types of financial analysis, tools of financial statement analysis, limitations of financial analysis

Module II: Comparative Statement Analysis

Comparative Balance sheet and Income statement analysis, Common size statements and trend analysis

Module III: Cash Flow Analysis

Analysis of operating activities, analysis of investing activities and analysis of financial activities, preparation and interpretation of cash flow statement

Module IV: Ratio Analysis

Introduction, use and significance, limitations of ratio analysis, classification-Liquidity, long term solvency, activity and profitability ratios

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- K R Subramanyam (2014) Financial Statement analysis, 11th edition, Mc Graw hill
- Fridson Martin, Alvarez Fernando (2002) Financial Statement Analysis, 3rd Edition, John Wiley & Sons Inc.
- Sinha, G. (2013). Financial Statement Analysis, 2nd Ed, PHI
- Arora, M. N. (2013). Cost Accounting - Principles and Practices, 11th Ed, Vikas Publishing House
- Shah, P. (2014). Basic Financial Accounting for Management, 6th Ed (Reprint), Oxford Publishing



Course Name	Course Code	LTP	Credit	Semester
ADVERTISING AND PERSONAL SELLING	BCH611	2:01:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and relate the problems to the field of adverting and sales promotion if any
CLO 2	Investigate the root cause for the ineffectiveness of the campaign
CLO 3	Develop efficient and effective plans to run the campaigns
CLO 4	Evaluate the steps taken and be in a position to provide recommendations.

B. SYLLABUS

Course Contents:

Module I: Introduction - Advertising purpose and functions; Economic, social & ethical aspects of advertising; Advertising & the marketing mix, types of advertising; Major Institutions of advertising management, structure & functions of an advertising agency

Module II Advertising and campaign planning- Marketing strategy & situation analysis; Advertising plan; Advertising objectives; Creative approaches; the art of copywriting; Advertising copy testing; creativity in communication, motivational approaches & appeals, advertising budget process; methods of determining advertising appropriations.

Module III - Advertising media strategy -Role of media; types of media; their advantages and disadvantages; media research & advertising decisions; media planning, selection & scheduling strategies, Methods of measuring advertising effectiveness

Module IV: Personal Selling - The nature of personal selling; Personal Selling in marketing mix; Sales Management environment; Sales forecasting & Sales management planning, Organizing & executing the sales effort. The nature of sales management positions; the sales organization; sales department relations;

Module V: Sales force management - Recruitment & selection of sales personnel; Training, motivating, compensating & controlling sales personnel; controlling the sales effort - sales budget, sales quotas, sales territories, sales control & cost analysis. Sales process

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Belch, George E & Belch, Michael A. (2009). Advertising and Promotion. McGraw-Hill Irwin.
- Wells W.D, Burnett J, & Moriarty S. (2009), Advertising Principles and Practice, Pearson Higher Education
- Batra R, Myers G.J., Aaker D (2003), Advertising Management, Pearson Education.
- Still Cundiff, Sales Management Decision Strategies, Fifth Edition, Prentice Hall
- Panda Tapan K., Sahadev Sunil, Sales and Distribution Management, 2005, Oxford University Press.



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Course Name	Course Code	LTP	Credit	Semester
SERVICE MARKETING	BCH612	2:01:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the Concept of Services and intangible product
CLO 2	Discuss the relevance of the services Industry to Industry
CLO 3	Examine the characteristics of the services industry
CLO 4	Analyse the role and relevance of Quality in Services
CLO 5	Visualise future changes in the Services Industry

B. SYLLABUS

Course Contents:

Module I: Services an Overview

Services: concept, characteristics. Marketing of goods v/s marketing of services. Significance of services marketing. Role of services sector in economy. Growth of service sector. Services- Global and Indian Scenario. Introduction to service marketing mix

Module II: Consumer Behaviour in Services

Consumer decision-making process. Consumer Expectations: Concept. Factors influencing customer expectation of services. Service encounter and moments of truths. Managing Customer Satisfaction. Service failure and recovery.

Module III: Service Quality & Productivity

Concept of service quality. GAP Model of service quality. Measuring and improving service quality. Managing service operations and operational design for services. Concept of productivity in service context. Approaches to improve productivity. Managing service demand and capacity: Understanding capacity constraints, understanding demand patterns. Strategies for matching demand and suppl.

Module IV: Service Environment

Importance of service environment. Designing service environment and marketing strategies.

Module V: Managing service personnel

Role of service personnel and developing customer-focused personnel. Job characteristics. Dealing with conflict and stress. Internal marketing.

Module VI: Pricing and Distribution for services

Price determinants, pricing modifications. Approaches to pricing services. Pricing strategies linking to value definitions. Customer-focused pricing. Channel structures, distribution-growth options.

Module VII: Integrated Marketing Communications for services

Role of communications, communication options, integrative communications program.

Evaluation Scheme:

Components	A	CI	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Clow Kenneth E. and Kurtz David L. , Services marketing operations, management and strategy, biztantra innovations in management, John Willey & Sons
- Valarie A Zeithaml and mary J Bitner , Services Marketing, Third Edition, Tata McGraw Hill Companies
- Christopher Lovelock , Service Marketing (people, technology and strategy), 2001, Fifth Edition, Pearson Education
- Rampal M.K., Gupta S.L., Service Marketing, 2006 Galgotia Publishing Company



Course Name	Course Code	LTP	Credit	Semester
COMPENSATION AND REWARD MANAGEMENT	BBA 614	3:0:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Relate compensation management to behavioral theories and concepts and within the wider context of human resources management
CLO 2	Describe the process and evaluate the implications of job evaluation
CLO 3	Identify the internal and external environmental factors that have an impact on the pay structure of an organization
CLO 3	Demonstrate an understanding of the process of designing a pay structure taking account of the company environment

B. SYLLABUS

Module I: Introduction

Overview of Compensation Management, Wage and Salary Administration – Nature, Importance, Philosophy, Objectives, Definition, Goals Role of various parties – Employees, Employers, Unions & Government and Legislations for compensation.

Module II: Developing Compensation Programs

Job Evaluation, Basic systems Time wage, **Piece wage, Incentives, Wage payments** and Total Salary Structure, Compensation Surveys, Hay Plan, Developing Competitive Compensation Programs, Developing Salary Structures

Module III: Derivatives of Compensation

Pay for Performance, Merit pay and Performance Appraisal, Performance based rewards, Performance Criteria Choices, and Competency Mapping & Developing Performance Matrix, Performance based Compensation Schemes.

Module IV: Incentive Plans

Incentive Plans: individual and group incentive plans, Productivity Gain sharing plans, Profit Sharing Plans, Non - Financial and Financial incentives, Measuring Cost- to – Company (CTC).

Module V: Employee Benefits

Employee Benefits: Supplemented Pay benefits (pay for time not worked) insurance benefits, Retirement benefits, Employees' service benefits, **Introduction to ESOPs, Flexible benefits and Benefit Surveys.**

Module VI: Current Trends

Current Trends in Compensation and Reward Management

Examination Scheme:



Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

Text:

- Garry Dressler, “Personnel / Human Resource Management”, London, Prentice Hall, 1994.
- William B. Werther Jr. and Keith Davis “Human Resource Management”. New Jersey: McGraw Hill. (1993)
- Milkovich & Newman, Compensation, Irwin/McGraw-Hill 8th Ed.

References:

- Frans Poets, The Art of HRD – Job Evaluation & Remuneration, Crest Publishing, Volume7 1st Edition
- Michael Armstrong, Helen Murlis, The Art of HRD – Reward Management, Crest Publishing
- Michael Armstrong, Employee Reward, (University Press)
- P. Zingheim, The New Pay, Linking Employee & Organization Performance, Schuster, (Jossey-Bass)
- Sara Rynes, Compensation in Organization, Gerhart (Jossey BASS)
- Wendell L French, “Human Resource Management”, USA, Houghton Mifflin Company, 1994.

David D. Decenzo and Stephen P. Robbins, “Human Resource Management”, New Delhi, Prentice Hall, 3rd Edn., 1988.



Course Name	Course Code	LTP	Credit	Semester
REGULATION OF DOMESTIC AND FOREIGN EXCHANGE MARKETS	BCH661	2:01:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Analyzing the nature and functioning of Indian and foreign exchange markets.
CLO 2	To understand determination of exchange rates and their forecasting
CLO 3	Explaining the foreign exchange risks and to identify risk management strategies
CLO 4	Understanding foreign exchange markets, international financial markets and their functions & needs
CLO 5	Analyzing foreign exchange risks and risk management strategies

B. SYLLABUS

Course Contents:

Module I: Regulation of Domestic Markets

Basic functions of government; Market efficiency; Market failure; the meaning & cause; public policy towards monopoly and competition.

Module II: Foreign Exchange Markets & Regulatory Compliances

The Foreign Exchange Management Act, 1999, Spot and Forward Markets, Trading Terminologies & Mechanism, Currency Convertibility, Major/Minor currencies. ISO Currency codes, linkages to other Global Markets & Events, Using benchmark rates LIBOR/MIBOR. Reserve Bank of India's remittance guidelines for individuals & Corporate.

Module III : Foreign Exchange Rate Determination

Exchange Rate Determination, Cross-currency calculations, Interest Rate & Purchasing Power Parity, Negotiating FX rates for inflow/outflow for different international transactions, Exchange Arithmetic

Module IV: Foreign Exchange Rate Exposure & Trading Strategies

Transaction, Translation and Operating Exposure. FX Trading Strategies for Hedging, Speculation & Arbitrage

Module V: Foreign Trade Policy and Procedures

Current Foreign trade policy -Merchandise exports from India scheme, Service exports from India Scheme. Duty remission schemes ,EPCG, etc; EOUs, EHTPs, STPs, BPTs, and SEZs

Module VI: Industries Development Regulation An overview of current Industrial Policy; Regulatory Mechanism under Industries Development and Regulation Act., 1951. The Micro, Small and Medium Enterprises Development Act., 2006.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

Apte P.G. (1998), International Financial Management, Tata McGraw-Hill Publication



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- Thummuluri Siddaiah (2010), International Financial Management, Pearson Education
- Levi, M.D. (1996), International Finance, McGraw Hill International
- Errunza, V.R., Singh, D. and Srinivasan, T.S. (1994), International Business Finance, Global Business Press
- Hull, J.C. (1999), Introduction to Futures and Options Markets, Prentice Hall of India
- Edwards, F.R and Ma C.W. (1992), Futures and Options, McGraw-Hill International
- Kolb, R.W. (1997), Understanding Futures Markets, Prentice Hall of India
- Rebonato, R. (1996), Interest Rate Option Models: Understanding, Analysing and Using Models for Exotic Interest Rate Options, John Wiley and Sons
- Kohn, M (1998) Financial Institutions and Markets, Tata McGraw Hill Publishing



Course Name	Course Code	LTP	Credit	Semester
BANKING & INSURANCE	BCH663	2:01:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand the rudimentary aspects of Banking and Insurance.
CLO 2	Explain the reasons behind the happenings in the banking and insurance sector.
CLO 3	Trace the growth of the sector in past and future
CLO 4	Enhance their skills for best matching for the sector

B. SYLLABUS

Course Contents:

Module I

Origin of banking: definition, Types of deposits, Origin and growth of commercial banks in India, Banking Sector Reforms, International security standards in banking, Global Financial Crisis and India's banking Sector. Technological Channels for the Delivery of Financial Services, Role of Foreign Banks, Advantages and Disadvantages of Foreign Banks for domestic economy

Module II

Principles of sound lending, Secured vs. unsecured advances, Types of advances, Advance against various securities. Securitization of Standard Assets, Anti-money Laundering Guidelines, Credit Information Bureau of India Ltd. (CIBIL) Basel I, Basel II, Migration to Basel II Norms, Balance Sheet of a Bank; special items, off balance sheet items.

Module III

Basic concepts of risk, Types of business risk, Assessment and transfer, Basic principles of utmost good faith, Insurable interest, Indemnity, Economic function, Proximate cause, Subrogation and contribution. Legal Aspects of insurance contract, Re-insurance, Risk and return relationship, Insurance as an Investment, Insurance and Taxation, Advantages and Disadvantages of insurance

Module IV

Life Insurance Contract: Nature and Classification of Policies, Selection of Risk, Calculation of premium, Investment of Funds, Surrender Value, Retirement Planning, Pension Plans. Fire Insurance : Nature and uses, Kinds of Policies, Policy Conditions, Rate Fixation Payment of claim, Motor Insurance, Personal Accident, Health and Medical Insurance. Regulatory Framework of Insurance: Role, power and functions of IRDA, IRDA Act 1999.

Evaluation Scheme:

Components	A	CI	CA	EE
Weightage (%)	5	15	30	50

Text & Références

Bhasin, Niti, Indian Financial System: Evolution and Present Structure, New Century Publications
 Agarwal, O.P., Banking and Insurance, Himalaya Publishing House
 Suneja, H.R., Practical and Law of Banking, Himalaya Publishing House
 Saxena, G.S., Legal Aspects of Banking Operations, Sultan Chand and Sons
 Gupta, P.K., Insurance and Risk Management, Himalaya Publishing House
 Mishra, M.N., Principles and Practices of Insurance, S. Chand and Sons
 Black, K. and H.D. Skipper, Life and Health Insurance, Pearson Education
 Vaughan, E.J. and T. Vaughan, Fundamentals of Risk and Insurance, Wiley & Sons
 Suri, Niti, Banking and Financial Institution, New Century Publications



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Course Name	Course Code	LTP	Credit	Semester
ENTREPRENEURSHIP DEVELOPMENT	BCH671	2:01:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Develop understanding of core concepts of entrepreneurship and the role of entrepreneur in business and society.
CLO 2	Ability to analyze marketing environment in which the small business related to tourism operates and provide solutions based on a critical examination of available information.
CLO 3	Critically analyse and apply management strategies based on product, price, place and promotion objectives, under ethical consideration of different market situations and develop a successful Business plan.
CLO 4	Develop an integrated marketing communications plan, which includes promotional strategies, unique marketing mixes and selling propositions for specific service offerings
CLO 5	Develop the ability to collect, process, and analyze market information to make informed decisions

B. SYLLABUS

Course Contents:

Module I: Basic Concepts

Qualities, Characteristics of an entrepreneur, Venture idea generation, Ideas and the entrepreneurship, Women entrepreneurs, Preliminary Screening, Drawbacks or Problems of entrepreneurship, Reasons of failure, Overview of setting up an enterprise.

Module II: Project Appraisal

Pre-feasibility Report, Project Report, Comparative Rating of Product ideas, Cash Flow, Financial Analysis and Planning, Sources of Finance. Stages of Project Feasibility Analysis-Market, Technical, Financial, Social Analysis, Project Implementation Stages

Module III: Financial Analysis

Financing the project, Sources of finance, Venture Capital Sources, What Investor looks in the Investment Proposal, Outline for a Venture Capital Proposal. Sources of finance from different banks, Proposal with IDBI etc.

Module IV: Market and Materials Management Analysis

Vendor development, vendor selection decision factors, methods of price determination, direct and hidden cost in material management, market development, market feasibility, activities and decisions in materials management

Module V: Project Management

Steps and procedure for setting up small scale, Role of Banks and Financial Institutions in Development, E-Commerce, E-Business, E-Auction. Project management problems.

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Developing Entrepreneurship, Udai Pareek Sanjeev & Rao T.V, Printers, Ahmedabad
- Issues and Problems: Small: 1, Sharma, S.V.S., Industry Extension Training Institute, Hyderabad



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- A Practical Guide to Industrial Entrepreneurs; Srivastave, S.B., Sultan Chand & Sons
- Entrepreneurship Development; Bhanussali, Himalaya Publishing, Bombay



Course Name	Course Code	LTP	Credit	Semester
SPREADSHEET MODELING IN BUSINESS	BCH672	2:01:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	study the computer programs for business and financial modeling and structuring and solving financial problems using spreadsheets and structured programming techniques.
CLO 2	develop skills in translating financial models into spreadsheets using Microsoft Excel and to utilize and integrate spreadsheet functionalities, programming, and interfaces in financial applications.

B. SYLLABUS

Course Contents:

Module I: Basics of MS Excel

Understanding Basics of Spreadsheet; Sorting Data; Filtering Data; Conditional Formatting; Inserting and Copying Formulas; Freeze Panes; Range Names, Paste Special Command, Text Functions, Count Functions, Text Functions

Module II: Charts

Bar Chart, Line Chart, Column Chart, Pie Chart, Area Chart, Stock Chart, Surface Chart, Doughnut Chart, Scatter Diagram, Bubble Diagram, Radar diagram

Module III: Data Analysis using MS Excel

Basic Pivot Tables, Pivot Charts, What if Analysis: Goal Seek, Data Table, Scenario Manager; Using Data Analysis Tool for Statistical Analysis; Using Solver, NPV, IRR, Inferential Statistics: Chi Square Test, t-test, One Way ANOVA, Correlation & Regression Analysis

Module IV: Advanced functions using MS Excel

Creating and using Macros, sensitivity Analysis, creating profit and loss account, Handling balance sheets through excel

Evaluation Scheme

Components	CPA	CT	Q/S	A	CE	EE
Weightage (%)	15	30	1	5	50	0

Text & References:

- Benninga, S. (2000), Financial Modeling, 2nd Ed, MIT Press
- Microsoft excel 2010 All in One for Dummies by H. Greg, 2010, Willey Publishing, Inc

Course Name	Course Code	LTP	Credit	Semester
INDIAN ECONOMY	ILB 501	3:1:0	04	5

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explain the concepts of economic development and growth, poverty and inequality, persistence of inequality, growth strategy for India, and how they are measured.
CLO 2	Explain the planning process, objectives and relevance of five-year plans for India to analyze the policy decisions
CLO 3	Describe the international trade and its multiplier impact on Indian manufacturing sector.
CLO 4	Describe economic reforms and its relevance in Indian context. Also highlight the importance of FDI for make in India (current context)

- SYLLABUS**

Course Objective:

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with emphasis on paradigm shifts and turning points.

Course Contents:

Module I

Indian economic growth, distribution and structural change: Comparative historical perspective Indian Economy at Independence, Planning and Economic Development, Economic Reforms, Growth and structural change, Fiscal and Budgetary developments.

Module II

Human Capital: Demography, health, and education; Population Growth and Economic Development, Population trends and Demographic Transition Theory, Microeconomic theory of fertility, National Population Policy, Demographic Dividend, Human Resource Development, Disparities and Divides, Health Indicators, Health care as Social responsibility, Discussion on NFHS, A Brief Overview on Education and Health Services in India:

Module III

Growth and Distribution: Poverty, inequality, unemployment, and policy interventions Poverty, Poverty lines in India, measuring poverty; Inequality meaning and trend, Unemployment, measuring unemployment, unemployment rate, Some characteristics of the Indian Labour market

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Edited by Uma Kapila. (2019). Indian economy since independence. Delhi: Academic Foundation.

- RaghbendraJha - Facets of India's Economy and Her Society Volume I - Current State and Future Prospects- Palgrave Macmillan UK (2018)
- Dutt, R., & Sundaram, K. Indian Economy. New Delhi: S. Chand & Co. Ltd (2016).
- Mishra, & Puri. Indian Economy. Bombay: Himalaya Publishing House (2015).

SUPPLEMENTARY READINGS

- Balakrishnan, P. (2007). The recovery of India: Economic growth in the Nehru era. *Economic and Political Weekly*, 42(45-46), 52-66.
- Bardhan, P. (2012). *Awakening giants, feet of clay: Assessing the economic rise of China and India*. Princeton University Press.
- Basu, K., Maertens, A. (2007). The pattern and causes of economic growth in India. *Oxford Review of Economic Policy*, 23, 143-167.
- Bhagwati, J., Panagariya, A. (2012). *India's tryst with destiny*, Collins Business.
- Centre for Sustainable Employment. (2018). *State of working India 2018*. AzimPremji University.
- Desai, S. (2015). Demographic dividend, dividend and debt. *The Indian Journal of Labour Economics*, 58, 217-232.
- Dreze, J., Khera, R. (2017). Recent social security initiatives in India, *World Development*, 98, 555-572.
- Dreze, J., Sen, A. (2013). *India: An uncertain glory*. Allen Lane.
- Joshi, V. (2016). *India's long road: The search for prosperity*. Allen Lane.
- Meenakshi, J. (2016). Trends and patterns in the triple burden of malnutrition in India. *Agricultural Economics*, 47, 115-134.
- Ministry of Finance. (2016). Universal basic income: A conversation with and within the mahatma. Chapter 9 in *Economic Survey*, 172-212.
- Panagariya, A., Mukim, M. (2014). A comprehensive analysis of poverty in India. *Asian Development Review*, 31, 1-52.
- Rangarajan Committee. (2014). *Report of the expert group to review the methodology for measurement of poverty*. Government of India.
- Rawal, V., Bansal, V., Bansal, P. (2019). Prevalence of undernourishment in Indian states: Explorations based on NSS 68th round data. *Economic and Political Weekly*, 54(15), 35-45.
- Rodgers, G. (2018). Inequality in the Indian growth regime. *Indian Journal of Human Development*, 12, 134-148.
- Thomas, J. (2014). India's labour market during the 2000s: An overview. In K. Ramaswamy (ed.): *Labour, employment and economic growth in India*. Cambridge University Press, 21-56.

- R Nagaraj (2013): “India’s Economic Development”, in AtulKohli and Prerna Singh edited, Routledge Handbook of Indian Politics, Routledge.
- Montek S Ahluwalia (2012): “Planning”, in KaushikBasu and AnnemieMaertens edited, The New Oxford Companion to Economics in India, Oxford University Press
- Michael Lipton and Martin Ravallion (1987): "Poverty and Policy", HBDE Vol. 3B
- Dreze and Deaton (2009): Food and Nutrition in India: Facts and Interpretations”, Economic and Political Weekly, Vol. 44, No. 2, February 14.
- PulapreBalakrishnan (edited) (2011): Economic reforms and growth in India: Essays from Economic and Political Weekly, Hyderabad: Orient Blackswan.
- KaushikBasu and A. Maertens, eds, 2013, The New Oxford Companion to Economics, Oxford University Press.
- Edited by: RaghendraJha (2008). The Indian Economy Sixty Years After Independence. London: Palgrave Macmillan



Course Name	Course Code	LTP	Credit	Semester
DATA ANALYTICS	BCH421	2:01:0	3	4

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Learn Creating effective spreadsheets and managing large sets of data
CLO 2	Mastering the use of some of Excel's most popular and highly sought after functions (SUM, VLOOKUP, IF, AVERAGE, INDEX/MATCH and many more...)
CLO 3	Create a dynamic report with Excel PivotTables
CLO 4	Understand the power and versatility of Microsoft Excel's AddIn, PowerPivot
CLO 5	Analyze Excel Worksheet formulas to ensure clean formulas

B. SYLLABUS

Course Contents:

Module I: Basics of MS Excel

Understanding Basics of Spreadsheet; Sorting Data; Filtering Data; Conditional Formatting; Inserting and Copying Formulas; Freeze Panes; Range Names, Paste Special Command, Text Functions, Count Functions, Text Functions

Module II: Data Presentations: Graphs & Charts

Bar Chart, Line Chart, Column Chart, Pie Chart, Area Chart, Stock Chart, Surface Chart, Doughnut Chart, Scatter Diagram, Bubble Diagram, Radar diagram,

Module III: Data Analysis using MS Excel

Basic Pivot Tables, Pivot Charts, What if Analysis: Goal Seek, Data Table, Scenario Manager; Using Data Analysis Tool for Statistical Analysis; Using Solver, NPV, IRR,

Module IV: Data Analysis Using SPSS

Basics of SPSS, Building Variable View; Summarizing Non Parametric Data; Descriptive Statistics, Cross Tabulation, Inferential Statistics: Chi Square Test, t-test, One Way ANOVA, Correlation & Regression Analysis

Evaluation Scheme

Components	CA	A	CT	ETE
Weightage (%)	95	5	00	00

Text & Reference Books

- Winston, W. L., (2014). Microsoft Excel 2013: Data Analysis & Business Modeling
- Landau, S., & Everitt, B.S., (2004), A Handbook of Statistical Analysis Using SPSS, Chapman & Hall/CRC



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Course Name	Course Code	LTP	Credit	Semester
FOOD STYLING AND PRESENTATION-I LAB	BHM 627	2:0:0	2	6

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	In depth knowledge of Food presentation skills.
CLO 2	Apply the various equipments, tools & cooking method in Food styling.
CLO 3	Food Styling & presentation in a professional way and learn the art of cooking.
CLO4	Apply the various ideas to present the food and learn the food photography skills.

B. SYLLABUS

Course Objective:

On successful completion of this course students will be able to display the cooked food in aesthetic manner. Student will be able understand balance of light, composition and theme while conducting food photography.

Course Contents:

1 Basic Elements of Food Presentation

1.1 Colour , 1.2 Texture, 1.3 Shape , 1.4 Layout , 1.5 Simplicity , 1.6 Flavours

2 Presentation

2.1 Balance 2.2 Portion Size 2.3 Temperature –Hot / Cold 2.4 Presenting Food for Service (2.4.1 Plates Size 2.4.2 Shape 2.4.3 Style 2.4.4Colour2.4.5 Plate Presentation 2.4.6 Uses of Platers 2.4.7 Trays 2.4.8 Bowls 2.4.9 Service Style 2.4.10 Buffet 2.4.11 PrePlated 2..4.12 Silver service)

3. Garnishes

3.1 Tools for Garnishing 3.2 Types of Garnishing 3.2.1 Bell pepper balloon 3.2.2 Cucumber ribbons 3.2.3 Zucchini Flowers 3.2.4 Curls, Rose 3.5 Pipping Skills

4. Art of Cooking

4.1 Different Style of Cooking 4.2 Cooking Technique in effective presentation 4.3 Special Technique
4.3.1 Foam 4.3.2 Dry ice 4.3.3 Nitrogen 4.3.4 Caviar 4.3.5 Anti-grill

5. Food Styling

5.1 Equipment & Props (Fabric, Surfaces, Cutlery) 5.2 Food styling best practices 5.3 Cooking separately and building Later

6. Food Photography

6.1 Basic Photography 6.2 Equipment & Handling 6.3 Lighting & Composition 6.4 Set Planning 6.5 Food Photography 6.6 Food styling for food media 6.7 Visit to a food Studio / work shop 6.8 Final Presentation

Examination Scheme:

Internal: 50 Marks

Components	JE(continue evaluation)	LE(continue evaluation)	Assignment	VV	A
Weightage (%)	05	15	15	10	5

End-Term: 50 Marks

Components	JE	VV	INDENT/ worksheet	LE
Weightage (%)	05	05	10	30

Abbreviation: JE= Journal Evaluation; LE= Lab Evaluation; VV= Viva-Voce. A: Attendance

Text&References:

Text:

- Theory of Catering by KintonCesserani, Published by Hodder& Stoughton
- Practical Cookery by KintonCesserani, Published by Hodder& Stoughton

References:

- Theory of Cookery by K Arora published, Frank Bros &Co. New Delhi
- Professional Chef by John Wiley
- Ultimate Cooking Course by Carole Clement publish by Joana Lorrenz
- The Food Stylist's Handbook: Hundreds of Media Styling Tips, Tricks, and Secrets for Chefs, Artists, Bloggers, and Food Lovers,By Denise Vivaldo and Cindie Flannigan
- Food Photography: From Snapshots to Great Shots Paperback –by Nicole S. Young.
- That Photo Makes Me Hungry – Photographing Food for Fun & Profit: Photographing Food for Fun and Profit Hardcover – by Andrew Scrivani
- Feast for the Eyes: The Story of Food in Photography Hardcover – by Susan Bright
- Garnishing: A Feast For Your Eyes by Francis Talyn Lynch (1987-06-02) Hardcover – by Francis Talyn Lynch

Course Name	Course Code	LTP	Credit	Semester
RESORT & CLUB MANAGEMENT	BHM 710	2:0:0	2	7

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To know various facilities offered in resort Hotels
CLO 2	To know the designing the facilities and operation of resort and clubs
CLO 3	Various recreational activities in resorts and clubs
CLO 4	Various planning system for operation of resort & club
CLO 5	Future trend of resorts and club business

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B. SYLLABUS

Course Objective:

At the end of the semester students will be able to-

- Describe the history, growth, and development of resorts and the gaming industry.
- Describe key marketing and financial aspects of resorts and the gaming industry.
- Identify the demographic characteristics of resort and casino patrons.
- Describe the process of resort planning and development, and the basic elements of a resort complex.
- Summarize current developments in casino gaming, resorts, and the future trends.
- Identify the various social, economic, and cultural concerns related to the resort and gaming industry.
- Identify key recreational activities and facilities common to resorts.

Course Contents:

Module I: Introduction: -

- A. The History and Characteristics of Resorts
- B. The Resort Concept
- C. The Development of Gaming

Module II: Resort Planning and Development: -

- A. Investment Consideration
- B. The Role of Planning and Management
- C. Planning, Facilities, Grounds Maintenance
- D. Planning and the Leisure concept
- E. Food and Beverage planning

Module III: Recreational Activities

- A. Golf, B. Tennis, C. Snow sports, D. Water sports
- E. Spa and Health Club Facilities, F. Recreational Infrastructure and Nature
- G. Theme Resorts

Module IV: Managing the Resort:

- A. Personnel organization and Human Relations
- B. Wage and Salary Administration
- C. Employee Productivity
- D. Labor force (hiring, retention, turnover)

Module V: Future Trends in Resort Development, Management, and Planning

- A. Planning for community cohesiveness
- B. Historical challenges and problems of resort development
- C. Determining the Economic Impact of the Resort and Gaming Industry
- D. Social and Cultural Aspects of Gaming

Examination Scheme:

Components	AS	P	V	Mid Term	A	EE
Weightage (%)	30			15	5	50

Abbreviation: AS: Assignment, P: presentation V: Viva;A: Attendance, CT: class test EE : End Term Examination

Text&References:

Hasimoto, K., Kline, S., and G. Fenich. 1998. Casino Management: Past, Present, and Future. (2nd Edition). Dubuque: Kendall & Hunt.

Mill, R.C. 2001. Resorts: Management and Operation. New York: Wiley & Sons.

Semester I

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Applied Mathematics	BTF 101	4:0:0	4	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Apply Leibnitz's theorem, Taylor's theorem and mean value theorems.
CLO 2	Find Asymptotes & curvature, tangents & normals, maxima & minima and approximate calculation of a function.
CLO 3	Differentiate the implicit function, partial derivatives of multi-variable functions and differentiation under integration sign.

B. SYLLABUS:**Module I: Differential Calculus**

Derivative of a function, Derivatives at a point, Fundamental rules for differentiation: Product Rule, Quotient Rule and Chain Rule,

Module II: Integral Calculus

Differentiation of Implicit Functions, Parametric forms and Logarithmic Differentiation, Successive differentiation, Leibnitz's theorem (without proof), Mean value theorem, Taylor's and Maclaurin's Theorem, Asymptote & Curvature, Partial Differentiation, Euler's Theorem, Maxima and Minima

Module III:

Fundamental Integral Formulae, Methods of Integration: Integration by Substitution, By Parts, Partial Fractions,

Module IV: Ordinary Differential Equations

Definite Integral and its Properties, Reduction Formulae, Application to length, Area and Volume.

Module V: Ordinary Differential Equations

Definition of Order and Degree of differential equation, Formation of ODEs, Solution of Differential Equation of 1st Order and 1st Degree: Variable Separation

Module VI:

Homogeneous Differential Equations, Linear Differential Equations, Exact Differential Equations, General Linear ODE of Second Order, Solution of Homogeneous Equation, Solution of Simple Simultaneous ODE

Examination Scheme:**Text & References:**

Components	Mid Term	Attendance	Assignment/Project/Seminar/Quiz	Class Test	Viva	EE
Weightage (%)	15	5	10	10	10	50

Text & References:**Text:**

- Narayan, S. (2005). Differential Calculus. S. Chand, 30th Revised edition.
- Narayan, S. (2005). Integral Calculus, S. Chand, New Delhi.

References:

ENGINEERING MECHANICS

Course Code: BME 103

CreditUnits: 03

Course learning outcomes (CLO)

CLO1: Able to analyse the force system and its effects.

CLO 2: Explain the nature of forces acting upon a system.

CLO 2: Evaluate the static and dynamic system's problem

Course Contents:

Module I: Force system & Structure

Free body diagram, Equilibrium equations and applications. Plane truss, perfect and imperfect truss, assumption in the truss analysis, analysis of perfect plane trusses by the method of joints, method of section.

Module II:Friction

Static and Kinetic friction, laws of dry friction, co-efficient of friction, angle of friction, angle of repose, cone of friction, friction lock, efficiency of screw jack, transmission of power through belt

Module III: Distributed Force

Determination of center of gravity, center of mass and centroid by direct integration and by the method of composite bodies, mass moment of inertia and area moment of inertia by direct integration and composite bodies method, radius of gyration, parallel axis theorem, Pappus theorems and its application, polar moment of inertia.

Module IV: Work -Energy

Work energy equation, conservation of energy, Virtual work, impulse, momentum conservation, impact of bodies, co-efficient of restitution, loss of energy during impact, D'alembert principle

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

CT: Class Test, HA: Home Assignment, CA: Continuous Assessment, EE: End Semester Examination; A Attendance

Text & References:

- S.S. Bhavikatti, Engineering Mechanics, New Age International Ltd
- Timoshenko, Engineering Mechanics, McGraw Hill
- R. S. Khurmi, Engineering Mechanics, S. Chand Publication
- H. Shames & G. K. M. Rao, Engineering Mechanics, Pearson Education, 2006

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	BEE 105	2 1 0	3	I

A. Course Learning Outcomes:

CLO 1	Develop a practical approach for analysis of resistive circuits and solution of resistive circuits with independent sources
CLO 2	Able to apply two terminal element relationships for inductors and capacitors in an electrical network.
CLO 3	Capable of analysis of single phase AC circuits, the representation of alternating quantities and determining the power in these circuits.
CLO 4	To acquire the knowledge about the constructional concepts & working principles for the applications of DC machines, AC machines & measuring instruments
CLO 5	Able to identify, formulate, and solve the electrical engineering problems

Course Contents:

Module I: Basic Electrical Quantities

Basic Electrical definitions-Energy, Power, Charge, Current, Voltage, Electric Field Strength, Magnetic Flux Density, etc., Resistance, Inductance and Capacitance. Ideal Source, Independent Source and Controlled Source

Module II: Network Analysis Techniques & Theorems

Circuit Principles: Ohm's Law, Kirchoff's Current Law, Kirchoff's Voltage Law Network Reduction: Star-Delta Transformation, Source Transformation, Nodal Analysis, Loop analysis. Superposition theorem, Thevenin's Theorem, Norton's theorem and Reciprocity theorem.

Module III: Alternating Current Circuits

Peak, Average and RMS values for alternating currents, Power calculation:

reactive power, active power, Complex power, power factor, impedance, reactance, conductance, susceptance

Resonance: series Resonance, parallel resonance, basic definition of Q factor & Band-width.

Module IV: Transformers

Basic Transformer Operation principle, Construction, Voltage relations, current relations, Linear circuit models, open circuit test, short circuit test, Transformer Efficiency.

Evaluatio

n:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

- R.J. Smith, R.C. Dorf: Circuits, devices and Systems
- B.L. Thareja: Electrical Technology : Part -1 & 2
- V. Deltoro: Electrical Engineering fundamentals
- Schaum's Series: Electrical Circuits



Course Name	Course Code	LTP	Credit	Semester
FRENCH – I	FLN101	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and express in French vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes
CLO 3	Demonstrate comprehension of nuance between script and sound in French
CLO 4	Narrate clearly ideas, themes in simple standard French

B. SYLLABUS

Course Contents:

Module A: pp. 01 to 37; Module 1, 2, Module 3 Objectif 1, 2
Only grammar of Module 3: objectif 3, 4 and 5

Contenu lexical : Module 1: Découvrir la langue française : (oral et écrit)

- se présenter, présenter quelqu'un, faire la connaissance des autres, formules de politesse, rencontres
- dire/interroger si on comprend
- Nommer les choses

Module 2: Faire connaissance

- donner/demander des informations sur une personne, premiers contacts, exprimer ses goûts et ses préférences
- Parler de soi: parler du travail, de ses activités, de son pays, de sa ville

Module 3 : Organiser son temps

- dire la date et l'heure

Contenu grammatical : 1. organisation générale de la grammaire

- article indéfini, défini, contracté
- nom, adjectif, masculin, féminin, singulier et pluriel
- négation avec « de », "moi aussi", "moi non plus"
- interrogation : Inversion, est-ce que, qui, que, quoi, qu'est-ce que, où, quand, comment, quel(s), quelle(s)
- Interro-négatif : réponses : oui, si, non
- pronom tonique/disjoint- pour insister après une préposition
- futur proche

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	10	15	50

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

- le livre à suivre : Campus: Tome 1



Course Name	Course Code	LTP	Credit	Semester
GERMAN - I	FLG101	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and express in German vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes
CLO 3	Demonstrate comprehension of nuance between script and sound in German
CLO 4	Narrate clearly ideas, themes in simple standard German

Course Contents:

Module I: Introduction

Self introduction: heissen, kommen, wohnen, lernen, arbeiten, trinken, etc. All personal pronouns in relation to the verbs taught so far. Greetings: Guten Morgen!, Guten Tag!, Guten Abend!, Gute Nacht!, Danke sehr!, Danke!, Vielen Dank!, (es tut mir Leid!), Hallo, wie geht's?: Danke gut!, sehr gut!, prima!, ausgezeichnet!, Es geht!, nicht so gut!, so la la!, miserabel!

Module II: Interviewspiel

To assimilate the vocabulary learnt so far and to apply the words and phrases in short dialogues in an interview - game for self introduction.

Module III: Phonetics

Sound system of the language with special stress on Diphthongs

Module IV: Countries, nationalities and their languages

To make the students acquainted with the most widely used country names, their nationalities and the language spoken in that country.

Module V: Articles

The definite and indefinite articles in masculine, feminine and neuter gender. All Vegetables, Fruits, Animals, Furniture, Eatables, modes of Transport

Module VI: Professions

To acquaint the students with professions in both the genders with the help of the verb "sein".

Module VII: Pronouns

Simple possessive pronouns, the use of my, your, etc.

The family members, family Tree with the help of the verb "to have"

Module VIII: Colours

All the color and color related vocabulary - colored, colorful, colorless, pale, light, dark, etc.

Module IX: Numbers and calculations - verb "kosten"

The counting, plural structures and simple calculation like addition, subtraction, multiplication and division to test the knowledge of numbers.

"Wie viel kostet das?"

Module X: Revision list of Question pronouns

W - Questions like who, what, where, when, which, how, how many, how much, etc

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

- Wolfgang Hieber, Lernziel Deutsch



AMITY UNIVERSITY

— R A J A S T H A N —

- Hans-Heinrich Wangler, Sprachkurs Deutsch
- Schulz Griesbach, Deutsche Sprachlehre für Ausländer
- P.L. Aneja, Deutsch Interessant- 1, 2 & 3
- Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2
- Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs



Course Name	Course Code	LTP	Credit	Semester
SPANISH - I	FLS101	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Self introduction
CLO 2	Possessions.
CLO 3	Family/friend description with verbs like SER/ESTAR/TENER/HAY
CLO 4	Regular AR/ER/IR ending verbs conjugations
CLO5	Interrogative words

B. SYLLABUS

Course Contents:

Module I

A brief history of Spain, Latin America, the language, the culture...and the relevance of Spanish language in today's global context.
Introduction to alphabets

Module II

Introduction to 'Saludos' (How to greet each other. How to present / introduce each other).
Goodbyes (despedidas)
The verb *llamarse* and practice of it.

Module III

Concept of Gender and Number
Months of the years, days of the week, seasons. Introduction to numbers 1-100, Colors, Revision of numbers and introduction to ordinal numbers.

Module IV

Introduction to *SER* and *ESTAR* (both of which mean To Be).Revision of 'Saludos' and 'Llamarse'. Some adjectives, nationalities, professions, physical/geographical location, the fact that spanish adjectives have to agree with gender and number of their nouns. Exercises highlighting usage of *Ser* and *Estar*.

Module V

Time, demonstrative pronoun (Este/esta, Aquel/aquella etc)

Module VI



Introduction to some key AR /ER/IR ending regular verbs.

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

- Español, En Directo I A
- Español Sin Fronteras



Course Name	Course Code	LTP	Credit	Semester
CHINESE - I	FLC101	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Read, write and speak approx. 50 new Chinese words and understand basic grammar points
CLO 2	Interpret words, phrases and sentences of day today conversation related to greeting farewell and personal information like name age, residence, family etc
CLO 3	Write Chinese characters, simple sentence and a paragraph on Self Introduction
CLO 4	Communicate with Chinese speaking people using words, phrases and sentences related to greeting, farewell and personal information like name age, residence family etc.

B. SYLLABUS

Course Objective:

There are many dialects spoken in China, but the language which will help you through wherever you go is Mandarin, or Putonghua, as it is called in Chinese. The most widely spoken forms of Chinese are Mandarin, Cantonese, Gan, Hakka, Min, Wu and Xiang. The course aims at familiarizing the student with the basic aspects of speaking ability of Mandarin, the language of Mainland China. The course aims at training students in practical skills and nurturing them to interact with a Chinese person.

Course Contents:

Module I

Show pictures, dialogue and retell.
Getting to know each other
Practicing chart with Initials and Finals. (CHART – The Chinese Phonetic Alphabet Called “Hanyu Pinyin” in Mandarin Chinese.)
Practicing of Tones as it is a tonal language
Changes in 3rd tone and Neutral Tone.

Module II

Greetings
Let me Introduce
The modal particle “ne”.
Use of Please ‘qing’ – sit, have tea etc.
A brief self introduction – Ni hao ma? Zaijian!
Use of “bu” negative.

Module III

Attributives showing possession How is your Health? Thank you Where are you from? A few Professions like – Engineer, Businessman, Doctor, Teacher, Worker. Are you busy with your work? May I know your name?

Module IV

Use of “How many” – People in your family? Use of “zhe” and “na”. Use of interrogative particle “shenme”, “shui”, “ma” and “nar”. How to make interrogative sentences ending with “ma”. Structural particle “de”. Use of “Nin” when and where to use and with whom. Use of guixing. Use of verb “zuo” and how to make sentences with it

Module V

Family structure and Relations. Use of “you” – “mei you”. Measure words Days and Weekdays. Numbers.
Maps, different languages and Countries.

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	10	15	50

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

- “Elementary Chinese Reader Part I” Lesson 1-10

PYTHON

Course Code	L	T	P/FW	CREDITS	SEMESTER
MCS335	2	1	-	3	3

Course Learning Outcome

CLO 1 Recognize the python programming problem solution and its implementation

CLO 2 Identify the tools for python programming.

CLO 3 Describe the concept of different library functions and its utilization.

CLO 4 Apply knowledge of python programming techniques to solve computer problems.

Course Contents:

Module-I

Introduction to Python- features and basic syntax, interactive shell, editing, saving, and running a script. The concept of data types; variables, assignments; immutable variables; numerical types; arithmetic operators and expressions; understanding error messages; Conditions, boolean logic, logical operators; ranges; Control statements: if-else, loops (for, while); short-circuit (lazy) evaluation

Module-II

Strings and text files; manipulating files and directories; text files: reading/writing text and numbers from/to a file; creating and reading a formatted file. String manipulations: subscript operator, indexing, slicing a string; strings and number system: converting strings to numbers and vice versa. Binary, octal, hexadecimal numbers

Module-III

Lists, tuples, and dictionaries; basic list operators, replacing, inserting, removing an element; searching and sorting lists; dictionary literals, adding and removing keys, accessing and replacing values; traversing dictionaries. Design with functions: hiding redundancy, complexity; arguments and return values; formal vs actual arguments, named arguments. Recursive functions.

Module-IV

Simple graphics and image processing: "turtle" module; simple 2d drawing - colors, shapes; digital images, image file formats, image processing; Simple image manipulations with 'image' module - convert to bw, greyscale, blur, etc.

Module-V

Classes and OOP: classes, objects, attributes and methods; defining classes; design with classes, data modeling; persistent storage of objects; inheritance, polymorphism, operator overloading; abstract classes; exception handling, try block

Examination Scheme:

Components	C T	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

Textbook: *Fundamentals of Python: First Programs*, Author: Kenneth Lambert, Publisher: Course Technology, Cengage Learning, 2012



Course Name	Course Code	LTP	Credit	Semester
FRENCH - II	FLN201	2:0:0	2	2

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and express in French vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes
CLO 3	Demonstrate comprehension of nuance between script and sound in French
CLO 4	Narrate clearly ideas, themes in simple standard French

B. SYLLABUS

Course Contents:

Module A : pp.38 – 47 : Module 3 : Objectif 3, 4, 5, 6

Module B: pp. 47 to 75 Module 4, 5

Contenu lexical: Module 3: Organiser son temps

1. donner/demander des informations sur un emploi du temps, un horaire SNCF - Imaginer un dialogue
2. rédiger un message/ une lettre pour ...
 - i) prendre un rendez-vous/ accepter et confirmer/ annuler
 - ii) inviter/accepter/refuser
3. Faire un programme d'activités
imaginer une conversation téléphonique/un dialogue

Propositions- interroger, répondre

Module 4: Découvrir son environnement

1. situer un lieu
2. s'orienter, s'informer sur un itinéraire.
3. Chercher, décrire un logement
4. connaître les rythmes de la vie

Module 5: s'informer

1. demander/donner des informations sur un emploi du temps passé.
2. donner une explication, exprimer le doute ou la certitude.
3. découvrir les relations entre les mots
4. savoir s'informer

Contenu grammatical:

1. Adjectifs démonstratifs
2. Adjectifs possessifs/exprimer la possession à l'aide de :
 - i. « de » ii. A+nom/pronom disjoint
3. Conjugaison pronominale - négative, interrogative - construction à l'infinitif
4. Impératif/exprimer l'obligation/l'interdiction à l'aide de « il faut... »/ «il ne faut pas... »
5. passé composé
6. Questions directes/indirectes

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50



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— R A J A S T H A N —

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

• Le livre à suivre: Campus Tome 1



Course Name	Course Code	LTP	Credit	Semester
GERMAN – II	FLG201	2:0:0	2	2

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and express in German vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes
CLO 3	Demonstrate comprehension of nuance between script and sound in German
CLO 4	Narrate clearly ideas, themes in simple standard German

B. SYLLABUS

Course Contents:

Module I: Everything about Time and Time periods

Time and times of the day., Weekdays, months, seasons. ,Adverbs of time and time related prepositions

Module II: Irregular verbs

Introduction to irregular verbs like to be, and others, to learn the conjugations of the same, (fahren, essen, lesen, schlafen, sprechen und ähnliche).

Module III: Separable verbs

To comprehend the change in meaning that the verbs undergo when used as such, Treatment of such verbs with separable prefixes

Module IV: Reading and comprehension

Reading and deciphering railway schedules/school time table , Usage of separable verbs in the above context

Module V: Accusative case

Accusative case with the relevant articles, Introduction to 2 different kinds of sentences – Nominative and Accusative

Module VI: Accusative personal pronouns

Nominative and accusative in comparison, Emphasizing on the universal applicability of the pronouns to both persons and objects

Module VII: Accusative prepositions

Accusative propositions with their use, Both theoretical and figurative use

Module VIII: Dialogues

Dialogue reading: 'In the market place', 'At the Hotel'

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

- Wolfgang Hieber, Lernziel Deutsch
- Hans-Heinrich Wangler, Sprachkurs Deutsch
- Schulz Griesbach, Deutsche Sprachlehre für Ausländer
- P.L Aneja, Deutsch Interessant- 1, 2 & 3



AMITY UNIVERSITY

— R A J A S T H A N —

- Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2
- Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs



Course Name	Course Code	LTP	Credit	Semester
SPANISH - II	FLS201	2:0:0	2	2

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and express in Spanish vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes
CLO 3	Demonstrate comprehension of nuance between script and sound in Spanish
CLO 4	Narrate clearly ideas, themes in simple standard Spanish

B. SYLLABUS

Course Contents:

Module I

Revision of earlier modules.

Module II

Some more AR/ER/IR verbs. Introduction to root changing and irregular AR/ER/IR ending verbs

Module III

More verbal phrases (eg, Dios Mio, Que lastima etc), adverbs (*bueno/malo, muy, mucho, bastante, poco*). Simple texts based on grammar and vocabulary done in earlier modules.

Module IV

Possessive pronouns

Module V

Writing/speaking essays like my friend, my house, my school/institution, myself....descriptions of people, objects etc, computer/internet related vocabulary

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

- Español, En Directo I A
- Español Sin Fronteras



Course Name	Course Code	LTP	Credit	Semester
CHINESE – II	FLC201	2:0:0	2	2

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Read, write and speak approx. 100 New Chinese words and understand basic grammar points.
CLO 2	Interpret words, phrases and sentences of day today conversation related to hobbies and abilities, gratitude, apology and welcome, time, weather and directions
CLO 3	Write Chinese characters, simple sentence and a paragraph on simple topic like 'Self Introduction' and dialogue writing on "Conversation between two friends exchanging Personnel Information".
CLO 4	Communicate with Chinese speaking people using words, phrases and sentences related to hobbies and abilities. Express gratitude, apology and welcome

B. SYLLABUS

Course Contents:

Module I

Drills

Practice reading aloud

Observe Picture and answer the question.

Tone practice.

Practice using the language both by speaking and by taking notes.

Introduction of basic sentence patterns.

Measure words.

Glad to meet you.

Module II

Where do you live?

Learning different colors.

Tones of "bu"

Buying things and how much it costs?

Dialogue on change of Money.

More sentence patterns on Days and Weekdays.

How to tell time. Saying the units of time in Chinese. Learning to say useful phrases like – 8:00, 11:25, 10:30 P.M. everyday, afternoon, evening, night, morning 3:58, one hour, to begin, to end etc.

Morning, Afternoon, Evening, Night.

Module III

Use of words of location like-li, wai hang, xia

Furniture – table, chair, bed, bookshelf,.. etc.

Description of room, house or hostel room.. eg what is placed where and how many things are there in it?

Review Lessons – Preview Lessons.

Expression "yao", "xiang" and "yaoshi" (if).

Days of week, months in a year etc.

I am learning Chinese. Is Chinese difficult?

Module IV

Counting from 1-1000

Use of "chang-chang".

Making an Inquiry – What time is it now? Where is the Post Office?

Days of the week. Months in a year.

Use of Preposition – "zai", "gen".

Use of interrogative pronoun – "duoshao" and "ji".

"Whose"??? Sweater etc is it?

Different Games and going out for exercise in the morning.

Module V

The verb "qu"

Going to the library issuing a book from the library

Going to the cinema hall, buying tickets

Going to the post office, buying stamps

Going to the market to buy things.. etc

Going to the buy clothes Etc.



Hobby. I also like swimming.

Comprehension and answer questions based on it.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project +Presentation

I – Interaction/Conversation Practice

Text & References:

- “Elementary Chinese Reader Part F’ Lesson 11-20

ELEMENT OF MECHANICAL ENGINEERING

Course Code: BME 104

CreditUnits: 03

Course Objective:

The objective of this course is to impart the basic knowledge of thermodynamics, stress- strain, materials & their properties and various manufacturing processes to the students of all engineering discipline.

Course Contents:

Module I: Fundamental Concepts

Definition of thermodynamics, system, surrounding and universe, phase, concept of continuum, macroscopic & microscopic point of view, Thermodynamic equilibrium, property, state, path, process, cyclic process, Zeroth, first and second law of thermodynamics, Carnot Cycle, Introduction to I.C. Engines-two & four stroke S.I. and C.I. engines. Otto cycle. Diesel cycle.

Module II: Stress And Strain Analysis

Simple stress and strain: introduction, normal shear, and stresses-strain diagrams for ductile and brittle materials. Elastic constants, one-dimensional loadings of members of varying cross-section, Strain Energy, Properties of material-strength, elasticity, stiffness, malleability, ductility, brittleness, hardness and plasticity etc; Concept of stress and strain stress strain diagram, tensile test, impact test and hardness test.

Module III: Casting & Forging

Introduction of casting, pattern, mould making procedures, sand mould casting, casting defects, allowances of pattern. Forging-introduction, upsetting & drawing out, drop forging, press forging & m/c forging

Module IV: Welding & Sheet metal working

Introduction of welding processes, classification, gas welding, arc welding, resistance welding. Introduction to sheet metal shop, Shearing, trimming, blanking, piercing, shaving, notching, stretch forming, nibbling coining, embossing and drawing.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination; Att: Attendance.

Text & References:

Text

- Engineering thermodynamics, by P.K. Nag, Tata McGraw Hill.
- Thermal Engineering, by D.S. Kumar. S.K. Kataria and Sons.
- Thermal Engineering by PL Ballaney; Khanna Publishers, Delhi.
- Engineering Thermodynamics: Work and Heat Transfer, by Rogers and Mayhew, ELBS Publications

Reference

- Heine, R.W. C.R. Loper and P.C. Rosenthal, Principles of metal casting McGraw Hill
- Welding Technology by R.S. Parmar, Khanna Publishers.
- Thermodynamics and Heat Engines Volume-I, by R. Yadav: Central Publications.
- Ganesan, V. Internal Combustion Engine, Tata McGraw-Hill.
- Mathur, M.L. and Sharma, R.P. Internal Combustion Engine. Dhanpat Rai Publication

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
INTRODUCTION TO COMPUTERS AND PROGRAMMING IN C	BCS 104	2 1 0	3	I

A. Course Learning Outcomes:

CLO 1	Attempting algorithmic solutions to problems
CLO 2	Designing and coding moderate sized programs running to the order of a few hundred lines of code
CLO 3	Reading, understanding, and modifying code written by others

Course Contents:

Module I: Introduction

Introduction to computer, history, von-Neumann architecture, memory system (hierarchy, characteristics and types), H/W concepts (I/O Devices), S/W concepts (System S/W & Application S/W, utilities). Data Representation: Number systems, character representation codes, Binary, octal, hexadecimal and their interconversions. Binary arithmetic, floating point arithmetic, signed and unsigned numbers, Memory storage unit.

Module II: Programming in C

History of C, Introduction of C, Basic structure of C program, Concept of variables, constants and data types in C, Operators and expressions: Introduction, arithmetic, relational, Logical, Assignment, Increment and decrement operator, Conditional, bitwise operators, Expressions, Operator precedence and associativity, Managing Input and output Operation, formatting I/O.

Module III: Fundamental Features in C

C Statements, conditional executing using if, else, nesting of if, switch and break Concepts of loops, example of loops in C using for, while and do-while, continue and break. Storage types (automatic, register etc.), predefined processor, Command Line Argument.

Module IV: Arrays and Functions

One dimensional arrays and example of iterative programs using arrays, 2-D arrays Use in matrix computations. Concept of Sub-programming, functions Example of user defined functions. Function prototype, Return values and their types, calling function, function argument, function with variable number of argument, recursion.

Module V: Advanced features in C

Pointers, relationship between arrays and pointers Argument passing using pointers, Array of pointers. Passing arrays as arguments.

Strings and C string library.

Structure and Union. Defining C structures, Giving values to members, Array of structure, Nested structure,

passing strings as arguments.
File
Handling.

Evaluation:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

Text:

- “ANSI C” by E Balagurusamy
- Yashwant Kanetkar, “Let us C”, BPB Publications, 2nd Edition, 2001.
- Herbert Schildt, “C: The complete reference”, Osbourne McGraw Hill, 4th Edition, 2002.
- V. Raja Raman, “Computer Programming in C”, Prentice Hall of India, 1995.

References:

- Kernighan & Ritchie, “C Programming Language”, The (Ansi C Version), PHI, 2nd Edition.
- J. B Dixit, “Fundamentals of Computers and Programming in ‘C’.
- P.K. Sinha and Priti Sinha, “Computer Fundamentals”, BPB publication

APPLIED PHYSICS LAB

Course Code: AP 122

Credit Units: 01

List of Experiments:

1. To determine the wavelength of sodium light by Newton's rings method.
2. To determine the dispersive power of the material of prism with the help of a spectrometer.
3. To determine the specific rotation of sugar by Bi-quartz or Laurent half shade polarimeter.
4. To determine the speed of ultrasonic waves in liquid by diffraction method.
5. To determine the width of a narrow slit using diffraction phenomena.
6. To determine the temperature coefficient of platinum wire, using a platinum resistance thermometer and a Callender & Griffith's bridge.
7. To determine the value of specific charge (ratio of e/m) of an electron by Thomson method.
8. To determine the internal resistance of Leclanche cell with the help of Potentiometer.
9. To determine the resistance per unit length of a Carey Foster's bridge wire and also to find out the specific resistance of a given wire.
10. To plot graph showing the variation of magnetic field with distance along the axis of a circular coil carrying current, and hence estimate the radius of the coil.
11. To determine the value of acceleration due to gravity (' g ') in the laboratory using bar pendulum.
12. To determine the moment of inertia of a flywheel about its own axis of rotation.
13. To determine the density of material of the given wire with the help of sonometer.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	15	15	15	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.



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AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Applied Chemistry-I LAB	BTF 123	4:0:0	4	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstration of titration process.
CLO 2	Learning about Beer's Law
CLO 3	Spectroscopic analysis

Unit:01

List of Experiments

1. Titration of phosphoric acid and sodium hydroxide solution using pH meter.
2. Verification and application of Beer's Law.
3. Spectroscopic analysis of iron in water sample.
4. Conductometric titration.
5. Determination of water molecules of crystallization in Mohr's salt.
6. (A) Determination of surface Tension of liquid.
(B) Application of surface tension method in mixture analysis.
7. Application of distribution law in the determination of equilibrium constant.
8. Analysis of iron ore.
9. Plant pigments separation by paper chromatography.

Examination Scheme:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
30	15	05	20	10	10	10

ELEMENT OF MECHANICAL ENGINEERING LAB

Course Code: BME 124

Credit Units: 01

List of Experiments:

1. Welding
 - (a) Arc Welding
 - Butt Joint
 - Lap Joint
 - T Joint
 - (b) Gas Welding
 - Butt Joint
 - Lap Joint
 - Brazing of Broken pieces
2. Foundry
 - Sand mould casting by single piece pattern & Split pattern bracket with cores
3. Sheet Metal
 - Dust Bin
 - Mug
 - Funnel
 - Cylindrical Mug with handle-Rectangular
4. Fitting Shop
 - Male – Female Joint
 - Rectangular piece
 - Filing the job

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Object Oriented Programming in C++	BTF 204	4:0:0	2	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Apply the principles of object-oriented programming for various fields.
CLO 2	Create computer programs for various applications using C++ language.
CLO 3	

B. SYLLABUS:

Module I: Introduction Classes and Objects

Review of C, Difference between C and C++, Procedure Oriented and Object -Oriented Approach. Basic Concepts: Objects, classes, Principals like Abstraction, Encapsulation, Inheritance and Polymorphism. Dynamic Binding, Message Passing. Characteristics of Object-Oriented Languages. Introduction to Object-Oriented Modeling techniques (Object, Functional and Dynamic Modeling).

Abstract data types, Object & classes, attributes, methods, C++ class declaration, Local Class and Global Class, State identity and behaviour of an object, Local Object and Global Object, Scope resolution operator, Friend Functions, Inline functions, Constructors and destructors, instantiation of objects, Types of Constructors, Static Class Data, Array of Objects, Constant member functions and Objects, Memory management Operators.

Module II: Inheritance & Polymorphism

Inheritance, Types of Inheritance, access modes – public, private & protected, Abstract Classes, Ambiguity resolution using scope resolution operator and Virtual base class, Aggregation, composition vs classification hierarchies, Overriding inheritance methods, Constructors in derived classes, Nesting of Classes.

Polymorphism, Type of Polymorphism – Compile time and runtime, Function Overloading, Operator Overloading (Unary and Binary) Polymorphism by parameter, Pointer to objects, this pointer, Virtual Functions, pure virtual functions.

Module III: Strings, Files and Exception Handling

Manipulating strings, Streams and files handling, formatted and Unformatted Input output. Exception handling, Generic Programming – function template, class Template Standard Template Library: Standard Template Library, Overview of Standard Template Library, Containers, Algorithms, Iterators, Other STL Elements, The Container Classes, General Theory of Operation, Vectors.

Examination Scheme:

Components	Mid Term	Attendance	Assignment/Project/Seminar/Quiz	Class Test	Viva	EE
Weightage (%)	15	5	10	10	10	50

Text & References:

Text:

- Venugopal, A.R., & Ravishanker, T. (1997). Mastering C++, TMH Publications.
- Lafore R. (2004). Object Oriented Programming using C++, BPB Publications.
- Balagurusamy E. (2013). Object Oriented Programming with C++, TMH, Sixth edition.

ENGINEERING MECHANICS

Course Code: BME 204

Credit Units: 03

Course Objective:

Objective of this course is to provide fundamental knowledge of force system and its effect on the behaviour of the bodies that may be in dynamic or in static state. It includes the equilibrium of different structures like beams, frames, truss etc and the force transfer mechanism in the different components of a body under given loading condition.

Course Contents:

Module I: Force system & Structure

Free body diagram, Equilibrium equations and applications. Plane truss, perfect and imperfect truss, assumption in the truss analysis, analysis of perfect plane trusses by the method of joints, method of section.

Module II: Friction

Static and Kinetic friction, laws of dry friction, co-efficient of friction, angle of friction, angle of repose, cone of friction, friction lock, efficiency of screw jack, transmission of power through belt

Module III: Distributed Force

Determination of center of gravity, center of mass and centroid by direct integration and by the method of composite bodies, mass moment of inertia and area moment of inertia by direct integration and composite bodies method, radius of gyration, parallel axis theorem, Pappus theorems and its application, polar moment of inertia.

Module IV: Work -Energy

Work energy equation, conservation of energy, Virtual work, impulse, momentum conservation, impact of bodies, co-efficient of restitution, loss of energy during impact, D'alembert principle

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & References:

Text

- S.S. Bhavikatti, Engineering Mechanics, New Age International Ltd
- Timoshenko, Engineering Mechanics, McGraw Hill

Reference

- R. S. Khurmi, Engineering Mechanics, S. Chand Publication
- I. H. Shames & G. K. M. Rao, Engineering Mechanics, Pearson Education, 2006

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
APPLIED PHYSICS - II - MODERN PHYSICS	AP 202	2 1 0	3	II

A. Course Learning Outcomes:

CLO 1	Define and understand space and time and the variations in other related fundamental quantities such as mass, velocity and force.
CLO 2	Solve simple problems relating to the above concepts.
CLO 3	Explain by extending the understanding as laid down in Quantum theory to other phenomenon as observed in sub-atomic Physics and also to solve simple problems in Quantum Theory
CLO 4	Appreciate and understand the various spectra as observed during electronic transitions
CLO 5	Understand the way nature has endowed properties to materials.

Module I: Special Theory of Relativity

Michelson-Morley experiment, Importance of negative result, Inertial & non-inertial frames of reference, Einstein's postulates of Special theory of Relativity, Space-time coordinate system, Relativistic Space Time transformation (Lorentz transformation equation), Transformation of velocity, Addition of velocities, Length contraction and Time dilation, Mass-energy equivalence (Einstein's energy mass relation) & Derivation of Variation of mass with velocity.

Module II: Wave Mechanics

Wave particle duality, De-Broglie matter waves, phase and group velocity, Heisenberg uncertainty principle, wave function and its physical interpretation, Operators, expectation values. Time dependent & time independent Schrödinger wave equation for free & bound states, square well potential (rigid wall), Step potential.

Module III: Atomic Physics

Vector atom model, LS and j-j coupling, Zeeman effect (normal & anomalous), Paschen-Bach effect, X-ray spectra and energy level diagram, Moseley's Law, Lasers – Einstein coefficients, conditions for light amplification, population inversion, optical pumping, three level and four level lasers, He-Ne and Ruby laser, Properties and applications of lasers.

Module IV: Solid State Physics

Sommerfeld's free electron theory of metals, Fermi energy, Introduction to periodic potential & Kronig-Penny model (Qualitative) Band Theory of Solids, Semi-conductors: Intrinsic and Extrinsic Semiconductors, photoconductivity and photovoltaics, Basic aspects of Superconductivity, Meissner effect.

Evaluation:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

- Concept of Modern Physics, A. Beiser
- Applied Physics II, Agarawal & Goel
- Solid State Physics, S. O. Pallai
- Physics of Atom, Wehr & Richards



AMITY UNIVERSITY

RAJASTHAN

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Object Oriented Programming in C++ LAB	BTF 224	4:0:0	1	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstrate how to create objects
CLO 2	Use of constructors and destructors.
CLO 3	File handling

Practicals

Software Required: TurboC++

- Creation of objects in programs and solving problems through them.
- Different use of private, public member variables and functions and friend functions.
- Use of constructors and destructors.
- Operator overloading
- Use of inheritance in and accessing objects of different derived classes.
- Polymorphism and virtual functions (using pointers).
- File handling.

Examination Scheme:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
30	15	05	20	10	10	10

ENGINEERING MECHANICS LAB

Course Code: BME 224

P:02 C: 01

Course Contents:

- To verify the law of Force Polygon.
- To verify the law of Moments using Parallel Force apparatus. (Simply supported type)
- To determine the co-efficient of friction between wood and various surface (like Leather, Wood, Aluminum) on an inclined plane.
- To find the forces in the members of Jib Crane.
- To determine the mechanical advantage, Velocity ratio and efficiency of a screw jack.
- To determine the mechanical advantage, Velocity ratio and Mechanical efficiency of the Wheel and Axle
- To determine the MA, VR, η of Worm Wheel (2-start)
- Verification of force transmitted by members of given truss.
- To verify the law of moments using Bell crank lever
- To find CG and moment of Inertia of an irregular body using Computation method

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Engineering Graphics-Lab	BTF 125	4:0:0	1	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Developing skills about projections of point and lines
CLO 2	Plane figures and solid projections
CLO 3	Learning about surface development

B. SYLLABUS:

Module I: General

Importance, Significance and scope of engineering drawing, Lettering, Dimensioning, Scales, Sense of proportioning, Different types of projections, Orthographic Projection, B.I.S. Specifications.

Module II: Projections of Point and Lines

Introduction of planes of projection, Reference and auxiliary planes, projections of points and Lines in different quadrants, traces, inclinations, and true lengths of the lines, projections on Auxiliary planes, shortest distance, intersecting and non-intersecting lines.

Module III: Planes other than the Reference Planes

Introduction of other planes (perpendicular and oblique), their traces, inclination etc., Projections of points and lines lying in the planes, conversion of oblique plane into auxiliary Plane and solution of related problems.

Module IV: Projections of Plane Figures

Different cases of plane figures (of different shapes) making different angles with one or both reference planes and lines lying in the plane figures making different given angles (with one of both reference planes). Obtaining true shape of the plane figure by projection.

Module V: Projection of Solids

Simple cases when solid is placed in different positions, Axis faces and lines lying in the faces of the solid making given angles.

Module VI: Development of Surface

Development of simple objects with and without sectioning. Isometric Projection

Examination Scheme:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
30	15	05	20	10	10	10

Text & References:

- Engineering drawing by Shah, Mahendrakumar Budhichand, and Bachubhai Chhibubhai Rana Pearson Education India, (2009).
- Geometric Dimensioning & Tolerancing by Gill, Pritam Singh. Seagull Books Pvt Ltd, (2009).
- Engineering Drawing by Bhatt, N.D. Engineer 4 (1980).

Electronics Device and circuit

Course Code: BRI 301

Credit Units: 04

Course Objective:

This course builds from basic knowledge of Semiconductor Physics to an understanding of basic devices and their models. This course builds a foundation for courses on VLSI design and IC fabrication.

Course Contents:

Module I: Semiconductors

Bonding forces in solids, Energy bands, Metals, Semiconductors and Insulators, Direct and Indirect semiconductors, Electrons and Holes, Intrinsic and Extrinsic materials, Conductivity and Mobility, Drift and Resistance, Effects of temperature and doping on mobility, Hall Effect

Module II: P- N Junction

Forward and Reverse biased junctions- Qualitative description of Current flow at a junction, reverse bias, Reverse bias breakdown- Zener breakdown, avalanche breakdown, Rectifiers Optoelectronic Devices Photodiodes: Current and Voltage in an Illuminated Junction, Solar Cells, Photodetectors. Light Emitting Diode: Light Emitting materials

Module III: Bipolar Junction Transistor

Fundamentals of BJT operation, Amplification with BJTS, BJT Fabrication, The coupled Diode model (Ebers-Moll Model), Switching operation of a transistor, Cutoff, saturation, switching cycle, specifications, Drift in the base region, Base narrowing, Avalanche breakdown

Module IV: Field Effect Transistors

Basic pn JFET Operation, Equivalent Circuit and Frequency Limitations, MOSFET Two terminal MOS structure- Energy band diagram, Ideal Capacitance – Voltage Characteristics and Frequency Effects, Basic MOSFET Operation- MOSFET structure, Current-Voltage Characteristics

Module V: Fabrication of p-n junctions

Thermal Oxidation, Diffusion, Rapid Thermal Processing, Ion implantation, chemical vapour deposition, photolithography, Etching, metallization.

Module VI: Integrated Circuits

Background, Evolution of ICs, CMOS Process Integration, Integration of Other Circuit Elements.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

Att: Attendance.

Text Books:

1. Ben. G. Streetman, Sanjay Kumar Banergee, "Solid State Electronic Devices", 7th Edition, Pearson Education, 2016, ISBN 978-93-325-5508-2.
2. Donald A Neamen, Dhruves Biswas, "Semiconductor Physics and Devices", 4th Edition, MCGraw Hill Education, 2012, ISBN 978-0-07-107010-2.

Reference Book:

1. S. M. Sze, Kwok K. Ng, "Physics of Semiconductor Devices", 3rd Edition, Wiley, 2018.
2. A. Bar-Lev, "Semiconductor and Electronic Devices", 3rd Edition, PHI, 1993.

CIRCUITS AND SYSTEMS

Course Code: BEC 303

Credit Units: 04

Course Objective:

The course intends to make the students proficient in analyzing circuits. At the completion of the course, the student should be able to construct and interpret block diagrams and signal flow graphs of control systems and to use basic methods of determining their stability.

Course Contents:

Module I: Graph Theory and Network equations

Graph of a network, Trees, Co-trees and loops, Cut set matrix, Tie set matrix, number of possible trees of a graph, duality, Loop Analysis and Node Analysis.

Module II: Analysis of circuits using classical Method

Time and Frequency domain analysis of RL, RC and RLC circuits, Linear constant coefficient differential equation.

Module III: Signals and Laplace Transforms

Unit step signal, Ramp signal, impulse signal, Laplace transformations and its properties, Gate function, Inverse Laplace transformations, Application of Laplace Transforms in circuit analysis.

Module IV: Network Theorems

Reciprocity theorem, Superposition theorem, Thevenin's and Norton's theorems, Millman's theorem, Maximum power transfer theorem, Compensation theorem, Tellegan's theorem.

Module V: Two port Network & Network Functions

Introduction, two port z-, y-, T-, h-parameters, Inter-relations among parameters, Condition for reciprocity and symmetry, Interconnections of two port networks, Driving point and transfer functions, Poles, Zeros and necessary condition for driving point and transfer function.

Module VI: Network Synthesis

Hurwitz polynomial, Positive real functions, synthesis of LC, RC, RL immittance functions.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & References:

Text:

- M.E. Valkenburg, "Network analysis", PHI.
- D. R. Choudhary, "Networks and Systems", New Age International.
- K.M. Soni, 2009, "Circuits and Systems", VIII Edition, S.K. Kataria & Sons Delhi.

References:

- Bhise, Chadda, Kulshreshtha, "Engineering network analysis and filter design", Umesh Publication.
- F.F. Kuo, "Network Analysis and Synthesis", Wiley India Pvt. Ltd.

Theory of automation and computation

Course Code: BRI 302

Credit Units: 03

Course Objective:

Formal languages and automata theory deals with the concepts of automata, formal languages, grammar, computability and decidability. The reasons to study Formal Languages and Automata Theory are Automata Theory provides a simple, elegant view of the complex machine that we call a computer. Automata Theory possesses a high degree of permanence and stability, in contrast with the ever-changing paradigms of the technology, development, and management of computer systems. Further, parts of the Automata theory have direct bearing on practice, such as Automata on circuit design, compiler design, and search algorithms; Formal Languages and Grammars on compiler design; and Complexity on cryptography and optimization problems in manufacturing, business, and management. Last, but not least, research oriented students will make good use of the Automata theory studied in this course.

Module I: FINITE AUTOMATA (FA)

Introduction, Deterministic Finite Automata (DFA) -Formal definition, simpler notations (state transition diagram, transition table), language of a DFA. Nondeterministic Finite Automata (NFA)- Definition of NFA, language of an NFA, Equivalence of Deterministic and Nondeterministic Finite Automata, Applications of Finite Automata, Finite Automata with Epsilon Transitions, Eliminating Epsilon transitions, Minimization of Deterministic Finite Automata, Finite automata with output (Moore and Mealy machines) and Inter conversion

Module II: REGULAR EXPRESSIONS (RE) And REGULAR GRAMMARS

REGULAR EXPRESSIONS (RE): Introduction, Identities of Regular Expressions, Finite Automata and Regular Expressions- Converting from DFA's to Regular Expressions, Converting Regular Expressions to Automata, applications of Regular Expressions.

REGULAR GRAMMARS: Definition, regular grammars and FA, FA for regular grammar, Regular grammar for FA. Proving languages to be non-regular -Pumping lemma, applications, Closure properties of regular languages

Module III: CONTEXT FREE GRAMMER (CFG)

Derivation Trees, Sentential Forms, Rightmost and Leftmost derivations of Strings. Ambiguity in CFG's, Minimization of CFG's, CNF, GNF, Pumping Lemma for CFL's, Enumeration of Properties of CFL (Proof's omitted).

Module IV: PUSHDOWN AUTOMATA:

Definition, Model, Acceptance of CFL, Acceptance by Final State and Acceptance by Empty stack and its Equivalence, Equivalence of CFG and PDA.

TURING MACHINES (TM): Formal definition and behaviour, Languages of a TM, TM as accepters, TM as a computer of integer functions, Types of TMs

Module V: RECURSIVE AND RECURSIVELY ENUMERABLE LANGUAGES (REL)

Properties of recursive and recursively enumerable languages, Universal Turing machine, The Halting problem, Undecidable problems about TMs. Context sensitive language and linear bounded automata (LBA), Chomsky hierarchy, Decidability, Post's correspondence problem (PCP), undecidability of PCP.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & References

Text:

John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman (2007), Introduction to Automata Theory Languages

and Computation, 3rd edition, Pearson Education, India.

References:

K. L. P Mishra, N. Chandrashekar (2003), Theory of Computer Science-Automata Languages and Computation, 2nd edition, Prentice Hall of India, India.

ELECTRICAL & ELECTRONIC MATERIALS

Course Code: BRI 303

Credit Units: 03

Course Objectives: The course aims at to introduce the behaviour of materials in external electric and magnetic field to the students.

Module I: Introduction:

Interaction of free electrons with lattice, Brillouin zones, Nearly free electron model, Tight binding and other electronic structure models.

Module II: Conducting Materials:

Electrical resistivity of metals and alloys, Mattheissen rule, Nordheims Rule, Kondo effect, Ionic and superionic conductors, Properties and their applications.

Module III: Dielectric and Insulating Materials:

Polarization, ClausiusMosotti equation, Dielectric permittivity and loss, Dielectric break down in materials, High K dielectric materials, Non-linear dielectrics, Ferroelectricity, Piezoelectricity, Pyroelectricity, Actuators and Smart materials.

Module IV : Magnetic Materials:

Classification, Ferromagnetism and Exchange interactions, Ferromagnetic domains, Magnetic anisotropy, Magnetic behaviour of polycrystalline materials, Hard and soft magnetic metallic and Intermetallic materials and their characteristics, Their properties and applications, Magnetism and superconductivity, Magnetostriction.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & References

Text:

1. Kittel, C, Introduction to Solid State Physics, John Wiley & Sons, Inc., (1996).
2. Ashcroft, N.W., and Mermin, N.D., Solid State Physics, Thomson, (2007).

References:

1. L. Solymar and Walsh, Lectures on Electrical Properties of Materials, Oxford University Press, (2004)
2. Hummel, R.E., Electronic Properties of Materials, Springer Verlag, (2004).

ELECTRONIC MEASUREMENTS

Course Code: BRI 304

Credit Units: 03

Course Objective:

This course deals with the systematic study of the electrical and electronics measurements, their basic features and types. This also describe the basic fundamental for characterizing all possible types of electrical and electronics measurements.

Module I : Basics of Measurement Systems:

General concepts and terminology of measurement systems, Basic characteristics of measuring devices, standards and calibration, Accuracy, Precision, Sensitivity, Resolution, Linearity & Errors in measurement.

Module II : PMMC Instruments:

PMMC meters- construction, torque equation, ammeter shunts, multirange ammeter, voltmeter multiplier, sensitivity, ohmmeters, multimeters; Construction & general equation of moving iron, electro-dynamometer, hot wire instruments,

Module III: Measurement of Resistance, Inductance and Capacitance:

D.C. Bridges: Wheatstone's bridge, Sensitivity & Limitations; Carey Foster Bridge; Kelvin double bridge; Megaohm Bridge. A.C. Bridges: Maxwell's inductance Capacitance Bridge; Andersons Bridge; De Sauty's Bridge; Schering Bridge.

Module IV: Component Measuring Instruments:

Q meter, Vector Impedance meter, RF Power & Voltage Measurements, Introduction to shielding & grounding & Noise problem.

Module V: Cathode Ray Oscilloscope:

CRT Construction, Basic CRO circuits, CRO Probes, Basic functioning, Techniques of Measurement of Voltage, Current, Phase Angle and Frequency, Multibeam, multi trace, storage & sampling Oscilloscopes.

EXAMINATION SCHEME:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & Reference books:

Text:

- A Course In Electrical & Electronic Measurement & Instrumentation, A.K.Sawhney, Dhanpat Rai

Reference

- Introduction To Measurements And Instrumentation, Arun K. Ghosh, PHI
- Electronic Measurements & Instrumentation, Bernard Oliver, John Cage, TMH
- Elements Of Electronic Instrumentation And Measurement, Carr, Pearson
- Electronic Instrumentation, H S Kalsi, TMH



Course Name	Course Code	LTP	Credit	Semester
FRENCH - III	FLN301	2:0:0	2	3

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and express in French vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes.
CLO 3	Demonstrate comprehension of nuance between script and sound in French
CLO 4	Narrate clearly ideas, themes in simple standard French

B. SYLLABUS

Course Contents:

Module B: pp. 76 - 88 Module 6

Module C: pp. 89 to 103 Module 7

Contenu lexical: Module 6: se faire plaisir

1. acheter : exprimer ses choix, décrire un objet (forme, dimension, poids et matières) payer
2. parler de la nourriture, deux façons d'exprimer la quantité, commander un repas au restaurant
3. parler des différentes occasions de faire la fête

Module 7: Cultiver ses relations

1. maîtriser les actes de la communication sociale courante (Salutations, présentations, invitations, remerciements)
2. annoncer un événement, exprimer un souhait, remercier, s'excuser par écrit
3. caractériser une personne (aspect physique et caractère)

Contenu grammatical:

1. accord des adjectifs qualificatifs
2. articles partitifs
3. Négations avec de, ne...rien/ personne/ plus
4. Questions avec combien, quel...
5. expressions de la quantité
6. ne...plus/toujours - encore
7. pronoms compléments directs et indirects
8. accord du participe passé (auxiliaire « avoir ») avec l'objet direct
9. Impératif avec un pronom complément direct ou indirect
10. construction avec « que » - Je crois que/ Je pense que/ Je sais que

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

- le livre à suivre : Campus: Tome 1



Course Name	Course Code	LTP	Credit	Semester
GERMAN - III	FLG301	2:0:0	2	3

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Identify and express in German vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes.
CLO 3	Demonstrate comprehension of nuance between script and sound in German
CLO 4	Narrate clearly ideas, themes in simple standard German

B. SYLLABUS

Course Contents:

Module I: Modal verbs

Modal verbs with conjugations and usage

Imparting the finer nuances of the language

Module II: Information about Germany (ongoing)

Information about Germany in the form of presentations or "Referat" – neighbors, states and capitals, important cities and towns and characteristic features of the same, and also a few other topics related to Germany.

Module III: Dative case

Dative case, comparison with accusative case

Dative case with the relevant articles

Introduction to 3 different kinds of sentences – nominative, accusative and dative

Module IV: Dative personal pronouns

Nominative, accusative and dative pronouns in comparison

Module V: Dative prepositions

Dative preposition with their usage both theoretical and figurative use

Module VI: Dialogues

In the Restaurant,

At the Tourist Information Office,

A telephone conversation

Module VII: Directions

Names of the directions

Asking and telling the directions with the help of a roadmap

Module VIII: Conjunctions

To assimilate the knowledge of the conjunctions learnt indirectly so far

Evaluation Scheme:

Components	CA	A	CI	EE
Weightage (%)	30	5	15	50

C - Project + Presentation I - Interaction/Conversation Practice

Text & References:

- Wolfgang Hieber, Lernziel Deutsch
- Hans-Heinrich Wangler, Sprachkurs Deutsch
- Schulz Griesbach, Deutsche Sprachlehre für Ausländer



AMITY UNIVERSITY

— R A J A S T H A N —

- P.L. Aneja, Deutsch Interessant- 1, 2 & 3
- Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2
- Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs



Course Name	Course Code	LTP	Credit	Semester
SPANISH - III	BLS301	2:0:0	2	3

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	To enable the students to talk about a place like, classroom, market, neighborhood and location of thing with the use of prepositions.
CLO 2	To talk about one's likes/dislikes, how one is feeling, to express opinions, pain and illness
CLO 3	Speaking about prices/currency/ market and quantity
CLO 4	To discuss near future plans (Ir + a +inf.)
CLO5	To talk about actions in process. (Present continuous form)

B. SYLLABUS

Course Contents:

Module I

Revision of earlier semester modules
Set expressions (idiomatic expressions) with the verb *Tener, Poner, Ir...*
Weather

Module II

Introduction to *Gustar...* and all its forms. Revision of *Gustar* and usage of it

Module III

Translation of Spanish-English; English-Spanish. Practice sentences.
How to ask for directions (using *estar*)
Introduction to IR + A + INFINITIVE FORM OF A VERB

Module IV

Simple conversation with help of texts and vocabulary
En el restaurante
En el instituto
En el aeropuerto

Module V

Reflexives

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

- Español, En Directo I A
- Español Sin Fronteras -Nivel Elementar



Course Name	Course Code	LTP	Credit	Semester
CHINESE - III	FLC301	02:0:0	2	3

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Read, write and speak approx. 50 New Chinese words and understand basic grammar points
CLO 2	Interpret words, phrases and sentences of day today conversation related to size, quantity, shopping, communication, study, work and feelings
CLO 3	Write Chinese characters, simple sentence and a paragraph on Self Introduction
CLO 4	Communicate with Chinese speaking people using words, phrases and sentences related to size, quantity, shopping, communication, study, work and feelings

B. SYLLABUS

Course Contents:

Module I

Drills, Dialogue practice, Observe picture and answer the question., Introduction of written characters.
Practice reading aloud, Practice using the language both by speaking and by taking notes.
Character writing and stroke order

Module II

Measure words, Position words e.g. inside, outside, middle, in front, behind, top, bottom, side, left, right, straight., Directional words - beibian, xibian, nanbian, dongbian, zhongjian., Our school and its different building locations., What game do you like?
Difference between "hui" and "neng", "keyi"

Module III

Changing affirmative sentences to negative ones and vice versa
Human body parts.
Not feeling well words e.g. ; fever, cold, stomach ache, head ache.
Use of the modal particle "le"
Making a telephone call Use of "jiu" and "cai" (Grammar portion)
Automobiles e.g. Bus, train, boat, car, bike etc.
Traveling, by train, by airplane, by bus, on the bike, by boat.. etc.

Module IV

The ordinal number "di"
"Mei" the demonstrative pronoun e.g. mei tian, mei nian etc.
use of to enter to exit Structural particle "de" (Compliment of degree). Going to the Park. Description about class schedule during a week in school. Grammar use of "li" and "cong". Comprehension reading followed by questions.

Module V

Persuasion-Please don't smoke. Please speak slowly Praise - This pictorial is very beautiful
Opposites e.g. Clean-Dirty, Little-More, Old-New, Young-Old, Easy-Difficult, Boy-Girl, Black-White, Big-Small, Slow-Fast ... etc.
Talking about studies and classmates Use of "it doesn't matter" Enquiring about a student, description about study method.
Grammar: Negation of a sentence with a verbal predicate.

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:



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— R A J A S T H A N —

- “Elementary Chinese Reader Part I, Part-2” Lesson 21-30

MICROPROCESSOR AND MICROCONTROLLER SYSTEM

Course Code BRI402

Credit unit 03

Module I : 8086 architecture:

8086 architecture- functional diagram, Register organization, memory segmentation, programming model, Memory addresses, physical memory organization, Signal descriptions of 8086-common function signals, timing diagrams, Interrupts of 8086.

Module -II Instruction set and assembly language programming of 8086:

Instruction formats. Addressing modes, instruction set, assembler directives. Macros, Simple programs involving logical, branch and call instructions.Sorting, evaluating arithmetic expressions, string manipulations.

Module -III I/O Interface:

8255 PPI, various modes of operation and interfacing to 8086, interfacing of key board, display. Stepper motor interfacing, D/A & A/D converter. Interfacing With advanced devices: Memory interfacing to 8086, Interrupts of 8086, Vector interrupt table, Interrupt service routine, Serial communication standards, serial data transfer schemes, 8251 USART architecture and Interfacing.

Module -IV Introduction to microcontrollers:

overview of 8051 microcontroller, Architecture, I/O ports, Memory organization, addressing modes and instruction set of 8051, Simple programs.

Module -V 8051 Real Time Control:

Programming Timer interrupts, programming external hardware interrupts, Programming the serial communication interrupts, Programming 8051 timers and counters.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

TEXT BOOKS:

- 1.D.V.Hall, Microprocessors and Interfacing. TMGH, 2nd edition 2006.
- 2.Kenneth.J.Ayala. The 8051 microcontroller, 3rd edition, Cengage learning,2010
- 3.Advanced microprocessors and peripherals-A.K ray and K.M.Bhurchandani, TMH, 2nd edition 2006.

REFERENCE BOOKS:

1. The 8051 microcontrollers, architecture and programming and applications-K.Uma Rao, AndhePallavi., Pearson, 2009.
2. Micro computer system 8086/8088 family architecture, programming and design- By Liu and GA Gibson, PHI, 2nd Ed.,
3. Microcontrollers and application, Ajay.V.Deshmukh,TMGH,2005
4. The 8085 microprocessor: Architecture, programming and interfacing- K.Uday Kumar, B.S.Umashankar,2008,Pearson
5. Microprocessors and microcontrollers- S.V.Altaf

SENSOR AND TRANSDUCER

Course code BRI 403

Credit unit 03

Module-1: Mechanical and Electromechanical sensor:

Definition, principle of sensing & transduction, classification. Resistive (potentiometric type): Forms, material, resolution, accuracy, sensitivity. Strain gauge: Theory, type, materials, design consideration, sensitivity, gauge factor, variation with temperature, adhesive, rosettes. Inductive sensor: common types Reluctance change type, Mutual inductance change type, transformer action type, Magnetostrictive type, brief discussion with respect to material, construction and input output variable, Ferromagnetic plunger type, short analysis. LVDT: Construction, material, output input relationship, I/O curve, discussion. Proximity sensor

Module-2 Capacitive sensors:

Variable distance-parallel plate type, variable area- parallel plate, serrated plate/teeth type and cylindrical type, variable dielectric constant type, calculation of sensitivity. Stretched diaphragm type: microphone, response characteristics. Piezoelectric element: piezoelectric effect, charge and voltage co-efficient, crystal model, materials, natural & synthetic type, their comparison, force & stress sensing, ultrasonic sensors.

Module-3 Thermal sensors:

Material expansion type: solid, liquid, gas & vapor Resistance change type: RTD materials, tip sensitive & stem sensitive type, Thermister material, shape, ranges and accuracy specification. Thermo emf sensor: types, thermoelectric power, general consideration, Junction semiconductor type IC and PTAT type. Radiation sensors: types, characteristics and comparison. Pyroelectric type.

Module-4 Magnetic sensors:

Sensor based on Villari effect for assessment of force, torque, proximity, Wiedemann effect for yoke coil sensors, Thomson effect, Hall effect, and Hall drive, performance characteristics. Radiation sensors: LDR, Photovoltaic cells, photodiodes, photo emissive cell types, materials, construction, response. Geiger counters, Scintillation detectors, Introduction to smart sensors.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

Att: Attendance.

Recommended Books:

1. Sensor & transducers, D. Patranabis, 2nd edition, PHI
2. Instrument transducers, H.K.P. Neubert, Oxford University press.
3. Measurement systems: application & design, E.A.Doebelin, Mc Graw Hill

LINEAR INTEGRATED CIRCUIT

code BRI404

Course

Credit Units 03

Module- I BASICS OF OPERATIONAL AMPLIFIERS

Current mirror and current sources, Current sources as active loads, Voltage sources, Voltage References, BJT Differential amplifier with active loads, Basic information about op-amps – Ideal Operational Amplifier - General operational amplifier stages -and internal circuit diagrams of IC 741, DC and AC performance characteristics, slew rate, Open and closed loop configurations – JFET Operational Amplifiers – LF155 and TL082.

Module II APPLICATIONS OF OPERATIONAL AMPLIFIERS

Sign Changer, Scale Changer, Phase Shift Circuits, Voltage Follower, V-to-I and I-to-V converters, adder, subtractor, Instrumentation amplifier, Integrator, Differentiator, Logarithmic amplifier, Antilogarithmic amplifier, Comparators, Schmitt trigger, Precision rectifier, peak detector, clipper and clamper, Low-pass, high-pass and band-pass Butterworth filters.

Module III ANALOG MULTIPLIER AND PLL

Analog Multiplier using Emitter Coupled Transistor Pair - Gilbert Multiplier cell – Variable transconductance technique, analog multiplier ICs and their applications, Operation of the basic PLL, Closed loop analysis, Voltage controlled oscillator, Monolithic PLL IC 565, application of PLL for AM detection, FM detection, FSK modulation and demodulation and Frequency synthesizing and clock synchronisation.

Module IV ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERTERS

Analog and Digital Data Conversions, D/A converter – specifications - weighted resistor type, R-2R Ladder type, Voltage Mode and Current-Mode R - 2R Ladder types - switches for D/A converters, high speed sample-and-hold circuits, A/D Converters – specifications - Flash type - Successive Approximation type - Single Slope type – Dual Slope type - A/D Converter using Voltage-to-Time Conversion - Over-sampling A/D Converters, Sigma – Delta converters.

Module V WAVEFORM GENERATORS AND SPECIAL FUNCTION ICs

Sine-wave generators, Multivibrators and Triangular wave generator, Saw-tooth wave generator, ICL8038 function generator, Timer IC 555, IC Voltage regulators – Three terminal fixed and adjustable voltage regulators - IC 723 general purpose regulator - Monolithic switching regulator, Low Drop – Out(LDO) Regulators - Switched capacitor filter IC MF10, Frequency to Voltage and Voltage to Frequency converters, Audio Power amplifier, Video Amplifier, Isolation Amplifier, Optocouplers and fibre optic IC.

TEXT BOOKS:

1. D.Roy Choudhry, Shail Jain, —Linear Integrated Circuits, New Age International Pvt. Ltd., 2018, Fifth Edition.
2. Sergio Franco, —Design with Operational Amplifiers and Analog Integrated Circuits, 4th Edition, Tata Mc Graw-Hill, 2016

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

REFERENCES:

1. Ramakant A. Gayakwad, —OP-AMP and Linear ICs, 4th Edition, Prentice Hall / Pearson Education, 2015.
2. Robert F.Coughlin, Frederick F.Driscoll, —Operational Amplifiers and Linear Integrated Circuits, Sixth Edition, PHI, 2001.
3. B.S.Sonde, —System design using Integrated Circuits, 2nd Edition, New Age Pub, 2001.
4. Gray and Meyer, —Analysis and Design of Analog Integrated Circuits, Wiley International, 5th Edition, 2009.
5. William D.Stanley, —Operational Amplifiers with Linear Integrated Circuits, Pearson Education, 4th Edition, 2001.
6. S.Salivahanan & V.S. Kanchana Bhaskaran, —Linear Integrated Circuits, TMH, 2nd Edition, 4th Reprint, 2016.

COMPUTER AIDED DESIGN AND ANALYSIS LAB

Course code BRI 421

Credit Units 01

List of experiment

1. Introduction to CAD and Graphics Hardware
- 2 Study and Application of Computer Graphics in CAD
- 3 Algorithms Used for Generating 2D Output Primitives
- 4 Geometric Transformations
- 5 Design of Machine Elements
- 6 Geometric Modeling (Part Modeling)
- 7 Geometric Modeling (Assembly Modeling)
- 8 Mathematical Elements of Curves
- 9 Reverse Engineering
- 10 Case-Study on Applications of CAD

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.

Text and Reference:

Text:

Design of Machine Elements by Sharma Purohit
Computer Aided Design by Dr. S S Khandare
PSG Design Data Book

Reference:

1. Reverse Engg. Set-up (MODROB-AICTE)
2. <http://www.rolanddga.com/asd/products/scanners/LPX60/>
3. <http://www.npd-solutions.com/reoverview.html>

4. Reversing: Secrets of Reverse Engineering by Eldad Eilamv. Publisher: Wiley
5. Rapidform XOR/Redesign tutorials.
6. <http://nptel.iitm.ac.in/courses/Webcourse-contents/IIT-Delhi/ComputerAidedDesign>
ManufacturingII

MICROPROCESSOR AND MICROCONTROLLER SYSTEM LAB

Course Code BRI 422

Credit Units 01

List of experiments

1. Programming for Data Transfer Operations
2. Programming for Arithmetical Operations
3. Programming for Logical Operations
4. Programming for String Operations
5. Programming for Sorting (Ascending & Descending Order)
6. Code Conversion programs
7. String Comparison program
8. Read a Character and Display the string using MASM
9. Reverse the String using MASM
10. Key board Interfacing
11. Display Interfacing
12. Stepper motor Interfacing
13. DAC Interfacing (Sine, Square, Saw tooth, Triangular)
14. ADC Interfacing
15. 8259 Interrupt Controller interfacing
16. Arithmetical Operations using 8051 microcontroller
17. Logical Operations using 8051 microcontroller
18. Bit manipulation Operations using 8051 microcontroller
19. Writing data to Parallel Port of 8051 microcontroller
20. Experiment on Timers and Interrupts of 8051 microcontroller

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.

SENSOR AND TRANSDUCER LAB

Course code

BRI 423

Credit Units 01

List of experiments

1. Characteristics of resistance transducer (i.) Potentiometer (ii.) Strain Gauge/ Measurement of Strain using quarter, half and full bridge.
2. Characteristics of LVDT.
3. Characteristics of capacitance transducer: (i) Variable area (ii) Variable distance.
4. Characteristics of Thermistors
5. Characteristics of RTD
6. Thermocouples and AD590.
7. Characteristics of LDR, Photo Diode, and Phototransistor: (i) Variable Illumination. (ii) Linear Displacement.
8. Measurement of resistance by Wheatstone bridge and measurement of bridge sensitivity.
9. Measurement of self-inductance by – Maxwell and Anderson Bridge.
10. Measurement of Capacitance by desautys and Schering Bridge.
11. Measure of low resistance by Kelvin's double bridge.
12. Calibration of ammeter, voltmeter using DC potentiometer.
13. Characteristics of diaphragm type pressure transducer.
14. Study of Storage Oscilloscope & Transient response of RLC.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.

LINEAR INTEGRATED CIRCUIT LAB
BRI424

Course code
Credit units 01

List of experiments

1. Inverting, Non inverting and differential amplifiers.
2. Integrator and Differentiator.
3. Instrumentation amplifier
4. Active low-pass, High-pass and band-pass filters.
5. Astable & Monostable multivibrators using Op-amp
6. Schmitt Trigger using op-amp.
7. Phase shift and Wien bridge oscillators using Op-amp.
8. Astable and Monostable multivibrators using NE555 Timer.
9. PLL characteristics and its use as Frequency Multiplier, Clock synchronization
10. R-2R Ladder Type D- A Converter using Op-amp.
11. DC power supply using LM317 and LM723.
12. Study of SMPS

SIGNALS AND SYSTEM

Course Code BRI 405

Credit Unit 03

Course Contents:

Module I: Signals and Systems

Introduction of signals and systems; classification of signal, continuous time and discrete time signals, operations performed on them, even and odd signals, periodic and non periodic signals, deterministic and random signals, energy signals, power signals, elementary signals: impulse, step, ramp and exponentials, classification of systems.

Module II: LTI system

Response of LTI system for continuous and discrete time systems, Impulse response, Step response, properties of continuous LTI and discrete LTI systems, LTI systems described by differential and difference equation, analysis of LTI Systems, interconnection of systems.

Module III: Fourier series

Representation of continuous time periodic signal, properties of continuous time Fourier series, representation of discrete time periodic signals, convergence of the Fourier series, properties of discrete time Fourier series, Fourier series and LTI systems.

Module IV: Fourier Transform

Continuous time Fourier transform, properties of continuous time Fourier transform, discrete time Fourier transform, properties of discrete time Fourier transform; applications; Bandwidth determination of signals and systems.

Module V: z-Transform

Definition of z-transform, region of convergence, properties of z-transform, first order system, second order system, inverse z-transform, analysis of LTI system using z-transform

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

Att: Attendance.

TEXT BOOK:

1. Allan V.Oppenheim, S.Wilsky and S.H.Nawab, —Signals and SystemsI, Pearson, 2015.

REFERENCES

1. B. P. Lathi, —Principles of Linear Systems and SignalsI, Second Edition, Oxford, 2009.

2. R.E.Zeimer, W.H.Tranter and R.D.Fannin, —Signals & Systems - Continuous and Discretel, Pearson, 2007.

3. John Alan Stuller, —An Introduction to Signals and SystemsI, Thomson, 2007.

VIRTUAL INSTRUMENTS

Course code BRI 406

Credit Units 04

Module- I INTRODUCTION

Virtual Instrumentation - Definition and Flexibility - Block diagram and Architecture for Virtual Instruments versus Traditional Instruments Instrumentation -VI Programming techniques - VI, sub VI, Loop and Charts, Arrays, Clusters and Graphs, Case and Sequence Structures, Formula nodes, String and File Input / Output

Module - II DATA ACQUISITION IN VI

A/D and D/A converters, Plug-in Analog Input / Output cards – Digital Input and Output Cards, Organization of the DAQ VI system – Opto-isolation – Performing analog input and analog output – Scanning multiple analog channels – Issues involved in selection of Data acquisition cards – Data acquisition modules with serial communication – Design of digital voltmeter with transducer input – Timers and Counters.

Module –III COMMUNICATION NETWORKED MODULES

Introduction to PC Buses – Local busses:- ISA, PCI, RS232, RS422 and RS485 – Interface Buses:- USB, PCMCIA, VXI, SCXI and PXI –Instrumentation Buses :- Modbus and GPIB – Networked busses – ISO/OSI Reference model, Ethernet and TCP/ IP Protocols.

Module - IV REAL TIME CONTROL IN VI

Designs using VI Software - ON/OFF controller – Proportional controller – Modeling and basic control of level and reactor processes – Case studies on development of HMI, SCADA in VI

Module - V OPERATING SYSTEM AND HARDWARE OVERVIEW

PC architecture, current trends, operating system requirements, PC based instrumentation, analog and digital interfaces, PXI and SCXI main frame - modular instruments – Transducers – power, speed and timing considerations.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text Books: 1. LabVIEW Graphical Programming, Gary W. Johnson, Richard Jennings 3rd edition , McGraw-Hill Professional Publishing

2. Lisa K Wells, Lab view for Everyone!, Prentice Hall of India.

References:

1. Barry Paton, —Sensor, transducers and Lab view, Prentice Hall of India 2000
2. Buchanan, W. —Computer buses, CRC Press 2000
3. <https://www.ni.com/>

BEHAVIOURAL SCIENCE - IV (RELATIONSHIP MANAGEMENT)

Course Code: BSS 404

CreditUnits: 01

Course Objective:

To understand the basis of interpersonal relationship
To understand various communication style
To learn the strategies for effective interpersonal relationship

Course Contents:

Module I: Understanding Relationships

Importance of relationships
Role and relationships
Maintaining healthy relationships

Module II: Bridging Individual Differences

Understanding individual differences
Bridging differences in Interpersonal Relationship – TA
Communication Styles

Module III: Interpersonal Relationship Development

Importance of Interpersonal Relationships
Interpersonal Relationships Skills
Types of Interpersonal Relationships

Module IV: Theories of Interpersonal Relationships

Theories: Social Exchange, Uncertainty Reduction Theory
Factors Affecting Interpersonal Relationships
Improving Interpersonal Relationships

Module V: Impression Management

Meaning & Components of Impression Management
Impression Management Techniques (Influencing Skills)
Impression Management Training-Self help and Formal approaches

Module VI: End-of-Semester Appraisal

Viva based on personal journal
Assessment of Behavioural change as a result of training
Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
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Weightage (%)	20	05	20	30	25
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Text & References:

- Vangelist L. Anita, Mark N. Knapp, Inter Personal Communication and Human Relationships: Third Edition, Allyn and Bacon
- Julia T. Wood. Interpersonal Communication everyday encounter
- Simons, Christine, Naylor, Belinda: Effective Communication for Managers, 1997 1st Edition Cassell
- Goddard, Ken: Informative Writing, 1995 1st Edition, Cassell
- Harvard Business School, Effective Communication: United States of America
- Foster John, Effective Writing Skills: Volume-7, First Edition 2000, Institute of Public Relations (IPR)
- Beebe, Beebe and Redmond; Interpersonal Communication, 1996; Allyn and Bacon Publishers.

ROBOTICS & AUTOMATION

Course Code: BRI 502

Credit Units: 03

Course Objective:

To introduce the concepts of Robotic system, its components and instrumentation and control related to robotics.

Course Contents:

Module I: Introduction

Definition, Automation and robotics, Robot anatomy, Basic structure of robots, Resolution, Accuracy and repeatability, and Classification and Structure of robots, Point to point and continuous path systems, automation principles and strategies, scope of automation, socio-economic consideration, low cost automation, basic elements of advanced functions, Information processing in manufacturing industry, Production concepts and automation strategies. Fixed Automation: Automated Flow lines, Methods of Work part Transport, Transfer Mechanism – Continuous transfer, intermittent transfer, Indexing mechanism, Operator-Paced Free Transfer Machine, Buffer Storage, Control Functions, Automation for Machining Operations, Design and Fabrication Considerations. Analysis of Automated Flow Lines: General Terminology and Analysis, Analysis of Transfer Lines without Storage, Partial Automation, Automated Flow Lines with Storage Buffers.

Module II: Assembly Systems and Line Balancing

The Assembly Process, Assembly Systems, Manual Assembly Lines, The Line Balancing Problem, Methods of Line Balancing, Computerized Line Balancing Methods, Other ways to improve the Line Balancing, Flexible Manual Assembly Lines. Automated Assembly Systems: Design for Automated Assembly, Types of Automated Assembly Systems, Vibratory bowl feeder and Non vibratory bowl feeder, Part Orienting Systems, Feed tracks, Escapements and part placing mechanism, Analysis of Multi-station Assembly Machines, Analysis of a Single Station Assembly Machine.

Module III: Automated Materials Handling

The material handling function, Types of Material Handling Equipment, Analysis for Material Handling Systems, Design of the System, Conveyor Systems, Automated Guided Vehicle Systems. Automated Storage Systems: Storage System Performance, Automated Storage/Retrieval Systems, Carousel Storage Systems, Work-in-process Storage, Interfacing Handling and Storage with Manufacturing.

Module IV: Automated Inspection and Testing

Inspection and testing, Statistical Quality Control, Automated Inspection Principles and Methods, Sensor Technologies for Automated Inspection, Coordinate Measuring Machines, Other Contact Inspection Methods, Machine Vision, Other optical Inspection Methods. Modeling Automated Manufacturing Systems: Role of Performance Modeling, Performance Measures, Performance Modeling Tools: Simulation Models, Analytical Models.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

A: Attendance.

Text & References:

Text

- Mikell P. Grover, "Automation, Production Systems and Computer Integrated Manufacturing", Pearson Education Asia, 2001.
- C. Ray Asfahl, "Robots and manufacturing Automation", John Wiley and Sons New York, 1992.

Reference

- Aanadham and Y. Narahari, "Performance Modeling of Automated Manufacturing Systems", Prentice Hall India Pvt. Ltd, 1992.
- Stephen J. Derby, "Design of Automatic Machinery", Special Indian Edition, Marcel Decker, New York, Yesdee publishing Pvt. Ltd, Chennai, 2004.

CONTROL SYSTEM/DSP

Course Code: BRI 503

Credit Units: 03

Course Objective:

The basic objective of this course is to provide the students the core knowledge of control systems, in which time & frequency domain analysis, concept of stability. The objective of the course in Digital signal processing is to provide the student with significant skills in general as well as advanced theories and methods for modification, analysis, detection and classification of analog and digital signals. Furthermore the objective is to give the student a broad knowledge of central issues regarding design, realisation and test of analog and in particular digital signal processing systems consisting of hardware and/or software components. The specialization in signal processing makes it possible to study practical or theoretic fields, ranging from mathematics/signal theory over algorithmic design to development of instruments based on hardware and/or software for real time signal

Course Contents:

Module I: Input / Output Relationship

Introduction of open loop and closed loop control systems, mathematical modeling and representation of physical systems (Electrical Mechanical and Thermal), derivation of transfer function for different types of systems, block diagram & signal flow graph, Reduction Technique, Mason's Gain Formula.

Module II: Time – Domain Analysis

Time domain performance criteria, transient response of first, second & higher order systems, steady state errors and static error constants in unity feedback control systems, error criteria, generalized error constants, performance indices, response with P, PI and PID Controllers.

Module III: Frequency Domain Analysis

Polar and inverse polar plots, frequency domain specifications, Logarithmic plots (Bode Plots), gain and phase margins, relative stability, Correlation with time domain, constant close loop frequency responses, from open loop response, Nyquist Plot.

Module IV: Concept of Stability

Asymptotic stability and conditional stability, Routh – Hurwitz criterion, Root Locus plots and their applications. Compensation Techniques: Concept of compensation, Lag, Lead and Lag-Lead networks, design of closed loop systems using compensation techniques. P, PI, PID controllers.

Module VI: Discrete time signals and systems in time domain

Classification of signal, signal processing operations, classification of systems, discrete time systems, examples of types of signal, sampling process, time domain characterization of LTI discrete- time systems, state space representation of LTI discrete time systems.

Module VII: Discrete time signals in transform domain

DTFT, properties, applications, inverse DTFT, DFT, properties, applications, inverse DFT, Z-transform, properties, applications, inverse Z-transform, frequency response, transfer function, Fast Fourier transform algorithms: DIT algorithm, DIF algorithm.

Module VIII

Discrete time processing of continuous time signals: sampling, analog filter design, antialiasing filter design.

Module IX: Discrete time processing of discrete- time signals

Digital filters: Digital filter structure: FIR filter structure, IIR filter structure, Digital filter design: Impulse invariance method, bilinear transform method of IIR filter design, **FIR filter design**

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & References:

Text:

- Dr. N.K Jain, 2005, "Automatic Control System Engineering", Dhanpat Rai Publication.
- J. Nagrath & M. Gopal, 2000, "Control System Engineering", New Age International.
- Prokis, Manolakis: Digital signal processing
- Oppenheim & Schaffer : Digital Signal Processing

References:

- M, K. Ogata, 2002, "Modern Control Engineering, PHI.
- B. C. Kuo, 2001, "Automatic Control system, Prentice Hall of India.
- Fafael C. Gonzalez, Richrd E. Woods: Digital Image Processing
- Anil Kumar Jain Fundamentals of Digital Image Processing

INDUSTRIAL TRAINING EVALUATION

Course
C:06

Code:

BMT

723

Methodology:

Practical training is based on the theoretical subjects studied by students. It can be arranged within the college or in any related industrial unit. The students are to learn various industrial, technical and administrative processes followed in the industry. In case of on-campus training the students will be given specific task of fabrication/assembly/testing/analysis. On completion of the practical training the students are to present a report covering various aspects learnt by them and give a presentation on same.

Examination Scheme:

Feedback from industry/work place	20
Training Report	40
Viva	15
Presentation	25
Total	100

ROBOTICS & AUTOMATION LAB

Course Code: **BRI 522**

Credit Units: **01**

List of Experiments:

1. Determination of maximum and minimum position of links.
2. Verification of transformation (Position and orientation) with respect to gripper and world coordinate system
3. Estimation of accuracy, repeatability and resolution.
4. Robot programming and simulation for pick and place
5. Robot programming and simulation for Colour identification
6. Robot programming and simulation for Shape identification
7. Robot programming and simulation for machining (cutting, welding)
8. Robot programming and simulation for writing practice
9. Robot programming and simulation for any industrial process (Packaging, Assembly)
10. Robot programming and simulation for multi process.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva, A - Attendance.

CONTROL SYSTEM LAB/DSP

Course Code: **BRI 523**

Credit Units: **01**

List of Experiments:

1. Study and draw
 - a) Step response of open Loop system (linear 1st order, 2nd order
 - b) Step response of closed loop systems (1st order)
2. Study and draw temperature control system the open loop response and closed loop response with different values of gains
3. Study of operations and characteristics of a stepper motor
4. To Study a D.C. motor speed control system
5. Performance evaluation and design of PID controller
6. Study of microprocessor control of a simulated linear system
7. To design a suitable cascade compensator for the given system and verify the resulting improvement.
8. Note: three experiments in MATLAB have to be performed in the slot of MATLAB.
Using MATLAB obtain the unit-step response and unit impulse response of the following system:

$$\frac{C(s)}{R(s)} = \frac{16}{s^2 + 1.6s + 16}$$

9. For a 2nd order transfer function using MATLAB
 - a) Bode Plot
 - b) Root locus plot
 - c) Nyquist plot.
10. To generate unit step sequence, exponential sequence and sinusoidal sequence
11. To determine convolution of two given sequences.
12. To plot the frequency response of an FIR system
13. To compute DFT and IDFT of a given sequence
14. To determine the circular convolution of two given sequences
15. To design various analog filters
16. To design FIR filter using Hamming window
17. To convert Analog filter into Digital Filter using bilinear transformation
18. To determine z and inverse z transform of a given sequence
19. To verify 8 points FFT algorithm in decimation in time (DIT) & decimation in frequency (DIF).
20. To determine the filter coefficient using Ramez exchange algorithm.
21. To design an IIR digital filter and its parallel realization.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva, A - Attendance.

PYTHON FOR DATA SCIENCE

Course Code: BRI 504

Credit Units: 03

Course Objective:

Basic process of data science .Python and Jupyter notebooks. An applied understanding of how to manipulate and analyze uncurated datasets. Basic statistical analysis and machine learning methods. How to effectively visualize results. By the end of the course, you should be able to find a dataset, formulate a research question, use the tools and techniques of this course to explore the answer to that question, and share your findings.

Course Contents:

Module I: Introduction

Welcome and overview of the course. Introduction to the data science process and the value of learning data science. Background: In this optional week, we provide a brief background in python or unix to get you up and running. If you are already familiar with python and/or unix, feel free to skip this content.

Module II: Jupyter and Numpy

Jupyter notebooks are one of the most commonly used tools in data science as they allow you to combine your research notes with the code for the analysis. After getting started in Jupyter, we'll learn how to use numpy for data analysis. numpy offers many useful functions for processing data as well as data structures which are time and space efficient.

Module III: Pandas

Pandas, built on top of numpy, adds data frames which offer critical data analysis functionality and features.

Module IV: Visualization

When working with large datasets, you often need to visualize your data to gain a better understanding of it. Also, when you reach conclusions about the data, you'll often wish to use visualizations to present your results.

Module V: Machine Learning

To take your data analysis skills one step further, we'll introduce you to the basics of machine learning and how to use scikit learn - a powerful library for machine learning.

Module VI: Working with Text and Databases

Working with text data or data from databases. This module will give you the skills to access that data. For text data, we'll also give you a preview of how to analyze text data using ideas from the field of Natural Language Processing and how to apply those ideas using the Natural Language Processing Toolkit (NLTK) library.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
A: Attendance.

Text & References:

Text

- Python Data Science Handbook by Jake VanderPlas published by O'Reilly.
- Introducing Data Science by Davy Cielen et.al published by Manning Publications

Reference

- Data Science from Scratch by Joel Grus published by O'Reilly
- The Art of Statistics Learning from Data by David Spiegelhalter published by pelican publications

R FOR DATA SCIENCE

Course Code: BRI 505

Credit Units: 03

Course Objective:

The course begins with developing a basic understanding of the R working environment. To introduce the necessary arithmetic and logical operators, salient functions for manipulating data, and getting help using R. Next, the common data structures, variables, and data types used in R will be demonstrated and applied. By the end of the course students you shall be confident and equipped with all the knowledge required to perform analytical activities in R

Course Contents:

Module I: Introduction to R programming

What is R, Installing R and RStudio, RStudio Overview, Working in the Console, Arithmetic Operators, Logical Operations, Using Functions, Getting Help in R and Quitting RStudio.

Module II: Data structures, variables, and data types

Creating Variables, Numeric, Character and Logical Data, Vectors, Data Frames, Factors, Sorting Numeric, Character, and Factor Vectors, Special Values.

Module III: R packages and scripts

Installing and loading packages, Setting up your working directory, Downloading and importing data, Working with missing data, Extracting a subset of a data frame, Writing R scripts, Adding comments and documentation, Creating reports.

Module IV: Descriptive statistics in R

Measures of central tendency, Measures of variability, Skewness and kurtosis, Summary functions, describe functions, and descriptive statistics by group, Correlations.

Module V: Data exploration and visualization

Using the ggplot2 package to visualize data, Applying themes from ggthemes to refine and customize charts and graphs, Building data graphics for dynamic reporting.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
A: Attendance.

Text & References:

Text

- Wickham, H. & Grolemund, G. (2018). for Data Science. O'Reilly: New York.

Reference

- R for Data Science by Hadley Wickham & Garrett Grolemund published by O' Reilly
- Sosulski, K. (2018). R Fundamentals. Bookdown: New York.

INDUSTRIAL AUTOMATION

Course Code: BRI 506

Credit Units: 03

Course Objective:

Analysis of Manufacturing systems & Mathematical models of production lines. To know Industrial Automated production lines and work part transfer mechanism and buffer storage analysis. To understand Cellular Manufacturing, Flexible manufacturing Systems, planning implementation issues and implementation quality programs in production systems.

Course Contents:

Module I: Introduction

Introduction , Automation In Production System, Manual Labor in production systems ,Principles and Strategies of Automation, Basic Elements of An Automated System, Levels of Automation, production concepts and mathematical models. Material Handling: Introduction to Material Handling, Material Handling Equipment's, Principles and Design Consideration in material handling, Material Transport Equipment, Automated Storage systems. SLE: Lean Manufacturing.

Module II: Fluid Power and Pneumatic Systems:

Introduction to Fluid power, Pascal's Law, Hydraulic Circuit Design and Analysis-Introduction, Control of A Single-Acting Hydraulic Cylinder Circuit, Control of a Double Acting Hydraulic Cylinder Circuit, Regenerative Cylinder Circuit. Basic Pneumatic systems, Types of Cylinders-Single acting Cylinder- Double acting Cylinder, Direction Control Valves- Valve position, Shuttle Valve, Basic Pneumatic Circuits- Control of Single acting Cylinder Circuit- Control of Double acting circuit, Impulse operation- Pilot operation of single acting and Double acting cylinder. SLE: Solenoid Operated Valve.

Module III: Manufacturing Systems

Introduction to Manufacturing systems, Components of Manufacturing systems, Classification scheme for Manufacturing systems, Simple problems using Mathematic models of production performance, single station manufacturing cells, fundamentals of manual assembly lines, automated production lines. SLE: Alternative Assembly lines.

Module IV: Automated Production Lines and Assembly systems

Fundamentals of Automated Production Lines, Applications Of Automated production lines, System configurations, Work Part Transfer Mechanisms, Storage Buffers, Power Transmission Systems- Gears, Power Screws(Linear Guideways), Other Transmissions Systems such as chains and ropes. SLE: System Design Considerations.

Module V: Cellular Manufacturing and Flexible Manufacturing Systems

Introduction, Part Families, Manufacturing Cells, Cellular Manufacturing, Part classification and coding, Production Flow Analysis, Group Technology and its applications. Introduction to FMS, FMS Industrial Applications and its benefits, FMS components. SLE: Planning and implementation issues.

Module VI: Inspection and Quality control

Introduction, Inspection, Specifying limits of variability, dimensions and tolerances, selection of gauging equipment's, gauge control, quality control and quality assurance, statistical quality control, total quality management, six sigma, quality standards, Simple numerical problems. SLE: Coordinate Measuring Machines.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

A: Attendance.

Text & References:

Text

Automation, Production Systems and Computer Integrated Manufacturing- M. P. Groover, Pearson Education. Third edition/Fifth edition, 2009.

Reference

- Computer Based Industrial Control- Krishna Kant, EEE-PHI,2nd edition,2010
- An Introduction to Automated Process Planning Systems- Tiess Chiu Chang & Richard A. Wysk.

ROBOTICS MOTOR AND DRIVES

Course Code: BRI 601

Credit Units: 03

Course Objective:

The course aims to introduce them to the theory of operation, analytical and circuit models and basic design concepts of Robotics motors and drives.

Course Contents:

Module I:

Robotic systems

History, Present status, and future trends in Robotics and automation - Laws of Robotics-Robot definitions, Degrees of Freedom of Serial and Parallel Manipulators- resolution, repeatability, and accuracy of a manipulator.

Module II:

Motor Systems

Various kinds of Robotics Motors viz Servo motor, Principle of operation, types and selection of Position & velocity sensors, switches – Tactile sensors -Touch sensors - Force and torque sensors, Robot End Effectors, Vision Systems.

Module III:

Robotics Drive Systems

Types of Actuators, Mechanical Drive Systems, Electric Drive System, Hydraulic Drive System and Pneumatic Drive System

Module IV:

Applications of Robots in Manufacturing and Processing Industries

Autonomous drone, Agricultural areas, Nanobots, Domestic Robotics, Page making industries and Industrial safety domains and live projects.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

Att: Attendance.

Text & References:

Text book

Deh S R., "Robotics Technology and Flexible Automation", Second Edition TataMcGraw Hill Publishing, Company Ltd., 2010.

Reference book

Mikell P Groover et. al., "Industrial Robots - Technology, Programming and Applications", McGraw Hill, New York, 2012.
Saeed B Niku," Introduction to Robotics Analysis, Systems, Applications""PHI Pvt

MECHATRONICS AND ROBOTICS APPLICATION

Course Code: BRI 602

Credit Units: 03

Course Objective:

To acquire the knowledge on advanced algebraic tools for the description of motion.

To develop the ability to analyses and design the motion for articulated systems.

To develop an ability to use software tools for analysis and design of robotic systems.

Module I:

Systems and Design: Mechatronic approach, Integrated Product Design, Modelling, Analysis and Simulation, Man-Machine Interface. Sensors and transducers: classification, Development in Transducer technology, Opto-Electronics-Shaft encoders, CD Sensors, Vision System, etc. Industrial Robot & Service Robot, Anatomy, Spatial coordinates, Geometric configurations and work envelope, Machine intelligence, Criteria for robot selection, Safety standards for Industrial Robot, Economic justification, Robot Applications-Material handling, Machine loading and unloading, Assembly, Inspection, Welding, Spray painting, Medical Industry, Future of Robotics.

Module II:

Robot Programming: Introduction, On-line programming: Manual input, Lead through -programming, Teach pendant programming, Off-line programming language, Simulation, Introduction to ROS Concept. Microsensors, Micro actuators; Microfabrication techniques LIGA Process: Lithography, etching, Micro-joining etc. Application examples; Case studies Examples of Mechatronic Systems from Robotics Manufacturing, Machine Diagnostics, Road vehicles and Medical Technology.

Module-III:

Control of Robot Manipulator: Open and closed loop control system, Control system concepts, Linear control schemes, PID control system, Types of motion control, drives and control, Planning of trajectories, Human Robot Collaboration. Replacement Programmable Logic Controllers: Basic Structure, Types and Working Principle, Concept of Scan Cycle and Scan Time, IO's and its Types, Selection Criteria and Applications Programming Techniques: Ladder diagram –Concept of Contacts and Coil, Latching/ Holding Circuit, Memory Bits, Timers and Counter. Micro mechatronic systems: Microsensors, Microactuators; Microfabrication techniques LIGA Process: Lithography, etching, Micro-joining etc. Application examples; Case studies Examples of Mechatronic Systems from Robotics Manufacturing, Machine Diagnostics, Road vehicles and Medical Technology.

Module V:

Control Components and Sensors: Mechanical control by stops and cams, Solenoids, Relays; Internal Sensors, potentiometers, resolvers and encoders; External sensing: Simple touch sensing, strain sensing, tactile sensing, acoustic sensing, magnetic sensing, capacitive sensing, laser sensing & machine vision

Textbooks/References:

1. Mechatronics System Design, Devdas Shetty & Richard A. Kolk, PWS Publishing Company (Thomson Learning Inc.).
2. Mechatronics: A Multidisciplinary Approach, William Bolton, Pearson Education. 3. A Textbook of Mechatronics, R.K.Rajput, S. Chand & Company Private Limited.
3. K.S Fu, R.C. Gonzalez, C.S.G. Lee, Robotics, McGraw Hill, 1987.
4. Y. Koren, Robotics for Engineers, McGraw Hill, 1985. AICTE Model Curriculum for UG Degree Course in Mechatronics 128
5. J.J. Craig, Robotics, Addison-Wesley, 1986.
6. Saeed B. Niku, "Introduction to Robotics – Analysis, Systems and Application" : PHI 2006.

7. Richard D, Klafner, Thomason A Chmielowski, Michel Nagin "Robotics Engg-an Integrated Approach" PHI 2005.
8. R.K. Mittal & I.J. Nagrath, "Robotics & Control" TMH-2007.
9. Saha, S.K., "Introduction to Robotics, 2nd Edition, McGraw-Hill Higher Education, New Delhi, 2014. 8. Ghosal, A., "Robotics", Oxford, New Delhi, 2006.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

A IOT AND CLOUD COMPUTING

Course Code: BRI 603

Credit Units: 03

Course Objective:

The basic objective of this course is to provide the students the core knowledge of IoT and cloud computing with practical expertise.

Course Contents:

Module I:

Introduction of IoT

Introduction to IoT. Understanding IoT fundamentals, Arduino Simulation Environment. Arduino Uno Architecture, and Sensor & Actuators with Arduino and Overview of Sensors working.

Module II:

Updation in IoT Systems

Basic Networking with ESP8266 WiFi module. Basics of Wireless Networking, IoT Protocols, and Cloud Platforms for IOT with some real live minor projects.

Module III:

Cloud Computing:

Introduction, Management, storage and processing of data on networks of the internet server, and On-demand IT resources over the internet etc. Introduction to platforms such as Amazon Web Services, Microsoft Azure and Google Cloud Platform.

Module IV:

Advancement in Cloud Computing:

Brief on AWS Architecture and different models of Cloud Computing. Compute Services: AWS Lambda, Elastic Beanstalk, AWS EC2, Auto Scaling, and Load Balancing. Storage Services: Amazon EBS, Amazon S3, Amazon EFS, Amazon Glacier, Amazon Global Accelerator, Amazon FSx, and Storage Gateway.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

Att: Attendance.

Text & References:

TEXT BOOKS:

1. Internet of Things - A Hands-on Approach, Arshdeep Bahga and Vijay Madiseti, Universities Press, 2015, ISBN: 9788173719547
2. Getting Started with Raspberry Pi, Matt Richardson & Shawn Wallace, O'Reilly (SPD), 2014, ISBN: 9789350239759
3. Raspberry Pi Cookbook, Software and Hardware Problems and solutions, Simon Monk, O'Reilly (SPD), 2016, ISBN 7989352133895

REFERENCE BOOKS:

1. Peter Waher, 'Learning Internet of Things', Packt Publishing, 2015
2. Peter Friess, 'Internet of Things – From Research and Innovation to Market Deployment', River Publishers, 2014
3. N. Ida, Sensors, Actuators and Their Interfaces, SciTech Publishers, 2014.

DIGITAL COMMUNICATIONS

Course Code: BRI 604

Credit Units: 03

Course Objective:

The purpose of this course is to provide a thorough introduction to digital communications with an in depth study of various modulation techniques, receiver design & performance analysis are discussed.

Module I:

Overview of Random variables and Random process: Random variables– continuous and Discrete, random process- Stationarity, Autocorrelation and power spectral density, Transmission of Random Process through LTI systems, PSD, AWGN Pulse Code Modulation (PCM): Pulse Modulation, Sampling process, Performance comparison of various sampling techniques Aliasing, Reconstruction, PAM, Quantization, Noise in PCM system Modifications of PCM: Delta modulation, DPCM, ADPCM, ADM, Performance comparison of various pulse modulation schemes, Line codes, PSD of various Line codes

Module II:

Transmission over baseband channel: Matched filter, Inter Symbol Interference (ISI), Nyquist Criteria for zero ISI, Ideal solution, Raised cosine spectrum, Eye Pattern Correlative Level Coding - Duobinary coding, precoding, Modified duobinary coding, Generalized Partial response signaling 7

Module III:

Signal Space Analysis: Geometric representation of signals, Gram Schmidt orthogonalization procedure Transmission Over AWGN Channel: Conversion of the continuous AWGN channel into a vector channel, Likelihood function, Maximum Likelihood Decoding, Correlation Receiver 7

Module IV:

Digital Modulation Schemes: Pass band transmission model, Coherent Modulation Schemes- BPSK, QPSK, BFSK. Non-Coherent orthogonal modulation schemes, Differential Phase Shift Keying (DPSK) Detection of Binary modulation schemes in the presence of noise, BER for BPSK, QPSK, BFSK 9

Module V:

Pseudo-noise sequences: Properties of PN sequences. Generation of PN Sequences, generator polynomials, Maximal length codes and Gold Codes. Importance of synchronization: Carrier, frame and symbol/chip synchronization techniques. Spread spectrum communication: Direct sequence spread spectrum with coherent binary phase shift keying, Processing gain, Probability of error, Antijam Characteristics, Frequency Hop spread spectrum with MFSK, Slow and Fast frequency hopping. 9

Module VI:

Multipath channels: classification, Coherence time, Coherence bandwidth, Statistical characterization of multi path channels, Binary signalling over a Rayleigh fading channel. Diversity techniques: Diversity in time, frequency and space. Multiple Access Techniques: TDMA, FDMA, CDMA and SDMA – RAKE receiver, Introduction to Multicarrier communication- OFDM

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text/reference books:

1. T/R BOOK TITLE/AUTHORS/PUBLICATION 1 John G. Proakis, Masoud Salehi, Digital Communication, McGraw Hill Education Edition, 2014
2. Nishanth N, Digital Communication, Cengage Learning India , 2017
3. Ramakrishna Rao, Digital communication, Tata McGraw Hill Education Pvt. Limited.
4. Simon Haykin, Communication Systems, 4/e Wiley India, 2012.

5. Couch: Analog and Digital Communication. 8e, Pearson Education India, 2013.
6. H.Taub and Schilling Principles of Communication Systems, , TMH, 2007
7. K.Sam Shanmugham, Digital and Analog Communication Systems, John Wiley & Sons
8. Pierre Lafrance ,Fundamental Concepts in Communication, Prentice Hall India.
9. Sheldon.M.Ross, "Introduction to Probability Models", Academic Press, 7th edition.
10. Sklar: Digital Communication, 2E, Pearson Education
11. T L Singal, Digital Communication, McGraw Hill Education (India) Pvt Ltd, 2015

A ROBOTICS MOTOR AND DRIVES LAB

Course Code: BRI 621

Credit Units: 01

Course Objective:

The course aims to introduce them to the theory of operation, analytical and circuit models and basic design concepts of Robotics motors and drives systems.

List of Experiments:

1. Introduction to LabVIEW with live examples
2. Hands on LabVIEW for finding Robotic parameters
3. Overview and hands on DaNI for finding in IoT.
4. Hands on DaNI
5. Ultrasonic Transducer Characterization
6. Hands on for finding DoF in UT
7. Characterization with the Roaming VI Graph
8. Calibrating PING's Orientation
9. Calibrating PING's File IO

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.

Text & References:

Text book

Deh S R., "Robotics Technology and Flexible Automation", Second Edition TataMcGraw Hill Publishing, Company Ltd., 2010.

Reference book

Mikell P Groover et. al., "Industrial Robots - Technology, Programming and Applications", McGraw Hill, New York, 2012.

Saeed B Niku," Introduction to Robotics Analysis, Systems, Applications" PHI Pvt.

MECHATRONICS AND ROBOTICS APPLICATION LAB

Course Code: BRI 622

Credit Units: 01

List of Experiments:

1. Familiarization with the following components: CRO, transformer, function generator, Multimeter, power supply.
2. Familiarization with the following mechanical components: gears, gear train, bearings, couplings, tachometer
3. To measure the characteristics of LVDT using linear displacement trainer kit.
4. To introduce different types of robotics and demonstrate them to identify different parts and components.
5. Study the major equipment/Software/Components in Robotics Lab, e.g. Robotic Arm components, Arena etc
6. Study components of a real robot and its DH parameters.
7. Integration of assorted sensors (IR, Potentiometer, strain gages etc.), micro controllers and ROS (Robot Operating System) in a robotic system
8. Determination of maximum and minimum position of links.
9. Study Forward kinematics and validation. 3. Study Inverse kinematics o and validation.
10. Measure the knowledge of Robotic arm, material handling, Scorable Software and Homing and Moving Robot
11. Recoding Robot positions (Absolute positions, Delete Positions, Save and load positions and Move the Robot to recorded positions.)
12. Verification of transformation (Position and orientation) with respect to gripper and world coordinate system.
13. Robot Programming and Simulation using linear and nonlinear paths.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.

Text/Reference Books:

1. Bolton, "Mechatronics", Pearson, Singapore.
2. Mahalik, "Principles, concepts and applications Mechatronics", TMH.
3. Ramesh Gaonkar, "Introduction to 8085-PENRAM", International Publishing.
4. Muzumdar, "Pneumatics" –Tata McGraw-Hill Education.
5. Saha, S.K., "Introduction to Robotics, 2nd Edition, McGraw-Hill Higher Education, New Delhi, 2014.
6. Richard D, Klafter, Thomason A Chmielowski, Michel Nagin "Robotics Engg-an Integrated Approach" PHI 2005.
7. R.K. Mittal & I.J. Nagrath, "Robotics & Control" TMH-2007

IOT AND CLOUD COMPUTING LAB

Course Code: BRI 623

Credit Units: 01

List of Experiments:

1. Study of AT89S52 Ultra Development Kit
2. Study of AT89S52 Ultra Development Kit with Development Tool
3. Environment of Kiel Software for Microcontroller programming.
4. To familiarize with Intel Galileo Gen2 board.
5. Understand the procedure of creation and compilation of C source code
6. Wifi module interfacing with Intel Galileo Gen2 Board.
7. To study of IoT Data Logging using Beaglebone Black and Thingspeak.
8. Turn your smartphone into an IoT device using the IBM Watson IoT.
9. Platform cloud-hosted service.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.

Text & References:

TEXT BOOKS:

1. Internet of Things - A Hands-on Approach, Arshdeep Bahga and Vijay Madiseti, Universities Press, 2015, ISBN: 9788173719547
2. Getting Started with Raspberry Pi, Matt Richardson & Shawn Wallace, O'Reilly (SPD), 2014, ISBN: 9789350239759
3. Raspberry Pi Cookbook, Software and Hardware Problems and solutions, Simon Monk, O'Reilly (SPD), 2016, ISBN 7989352133895

REFERENCE BOOKS:

1. Peter Waher, 'Learning Internet of Things', Packt Publishing, 2015
2. Peter Friess, 'Internet of Things – From Research and Innovation to Market Deployment', River Publishers, 2014
3. N. Ida, Sensors, Actuators and Their Interfaces, SciTech Publishers, 2014.

Digital Communications lab

Course Code : BRI 624

Credit Units: 03

List of Experiments:

1. Verification of Sampling Theorem.
2. Study of generation of Unipolar NRZ, Polar NRZ, Unipolar RZ and Polar RZ line code.
3. Study of generation and detection of Pulse Code Modulation (PCM).
4. Study of generation and detection of Delta Modulation.
5. Study of generation and detection of Amplitude Shift Keying (ASK).
6. Study of generation and detection of Phase Shift Keying (PSK).
7. Study of generation and detection of Frequency Shift Keying (FSK).
8. Analysis of the process of Time Division Multiplexing and demultiplexing.

Course Contents:

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE - External Exam, PR- Performance, LR – Lab Record, V – Viva.

Text & References:

1. Simon Haykin: "Digital Communication", John Wiley / 4th Ed.
2. Bernard SKLAR: "Digital communication", Pearson education.
3. Lathi, B.P / "Modern Digital & Analog Communication Systems" / Oxford University Press /.
4. Prokis J.J / "Digital Communications" / McGraw Hill /
5. Wayne Tomasi: "Electronic Communication systems", Pearson Education, 5th edition
6. Principles of Communications By Taub and Schilling

TOOLS AND TECHNIQUE FOR DATA SCIENCE

Course Code: BRI 605

Credit Units: 03

Course Objective:

Students will learn how Data Science Helps Scale Predictive Models & Adjust Fraudulent Claims. Use a Diverse Set of Tools and Techniques on the IBM Data Science Platform. Interactive Content. Deploy Models Faster. Modernized Dashboarding. Simple Intuitive UI and Smarter Capabilities.

Course Contents:

Module I:

The concept of data types; variables, assignments; immutable variables; numerical types; arithmetic operators and expressions; comments in the program; and understanding error messages.

Module II:

Introduction to D3, MATLAB, Excel, ggplot2, Tableau and some more relevant tools and concepts used in Data Science.

Module III:

Scientific methods, processes, algorithms, and systems to gather knowledge and some live projects work on the same using most popular tool such as SAS and MatLab.

Module IV:

Flexible and user-friendly tools handling. Various business analytics tools and techniques like Python, R, SAS, Tableau, Statistical concepts, and building of analytical models on experimental level.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & References:

Text:

Dhar, V. (2013). "Data science and prediction". Communications of the ACM. 56 (12): 64–73. doi:10.1145/2500499. S2CID 6107147. Archived from the original on 9 November 2014. Retrieved 2 September 2015.
Jeff Leek (12 December 2013). "The key word in "Data Science" is not Data, it is Science". Simply Statistics. Archived from the original on 2 January 2014. Retrieved 1 January 2014.

References:

- Hayashi, Chikio (1 January 1998). "What is Data Science? Fundamental Concepts and a Heuristic Example". In Hayashi, Chikio; Yajima, Keiji; Bock, Hans-Hermann; Ohsumi, Noboru; Tanaka, Yutaka; Baba, Yasumasa (eds.). *Data Science, Classification, and Related Methods. Studies in Classification, Data Analysis, and Knowledge Organization*. Springer Japan. pp. 40–51. doi:10.1007/978-4-431-65950-1_3. ISBN 9784431702085.
- Cao, Longbing (29 June 2017). "Data Science: A Comprehensive Overview". *ACM Computing Surveys*. 50 (3): 43:1–43:42. doi:10.1145/3076253. ISSN 0360-0300

DEEP LEARNING

Course Code: BRI 606

Credit Units: 03

Course Objective:

This course covers the basics of machine learning, neural networks, and deep learning. Model for deep learning technique and the various optimization and generalization mechanisms are included. Major topics in deep learning and dimensionality reduction techniques are covered. The objective of this course is:

To present the mathematical, statistical, and computational challenges of building neural networks

To study the concepts of deep learning

To introduce dimensionality reduction techniques

To enable the students to know deep learning techniques to support real-time applications

To examine the case studies of deep learning techniques

Module I:

Introduction to machine learning- Linear models (SVMs and Perceptrons, logistic regression)- Intro to Neural Nets: What a shallow network computes- Training a network: loss functions, back propagation, and stochastic gradient descent- Neural networks as universal function approximates

Module II:

History of Deep Learning- A Probabilistic Theory of Deep Learning- Backpropagation and regularization, batch normalization- VC Dimension and Neural Nets-Deep Vs Shallow Networks Convolutional Networks- Generative Adversarial Networks (GAN), Semi-supervised Learning

Module III: Dimensionality Reduction

Linear (PCA, LDA) and manifolds, metric learning - Auto encoders and dimensionality reduction in networks -

Introduction to Convnet - Architectures – AlexNet, VGG, Inception, ResNet - Training a Convnet: weights initialization, batch normalization, hyperparameter optimization

Module IV: Optimization and Generalization

Optimization in deep learning– Non-convex optimization for deep networks- Stochastic Optimization Generalization in neural networks- Spatial Transformer Networks- Recurrent networks, LSTM - Recurrent Neural Network Language Models- Word-Level RNNs & Deep Reinforcement Learning - Computational & Artificial Neuroscience

Module V: Case Study and Applications

ImageNet- Detection-Audio WaveNet-Natural Language Processing Word2Vec - Joint DetectionBioInformatics- Face Recognition- Scene Understanding- Gathering Image Captions

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;

Att: Attendance.

Text/Reference Books:

1. Cosma Rohilla Shalizi, Advanced Data Analysis from an Elementary Point of View, 2015.
2. Deng & Yu, Deep Learning: Methods and Applications, Now Publishers, 2013.
3. Ian Goodfellow, Yoshua Bengio, Aaron Courville, Deep Learning, MIT Press, 2016.
4. Michael Nielsen, Neural Networks and Deep Learning, Determination Press, 2015.

Cloud development IoT applications

Course Code : BRI 702

Crédit Unit: 03

Course Objective:

This course introduces Cloud computing to enable transformation, business development and agility in an organization.

Course Contents:

UNIT I:

Introduction to cloud computing

Introduction to Cloud Computing: Recent trends in Computing, Grid Computing, Cluster Computing, Distributed Computing, Utility Computing, Evolution of cloud computing.

UNIT II:

Architecture of cloud computing

Cloud Computing Architecture: Cloud versus traditional architecture, Infrastructure as a Service(IaaS), Platform as a Service(PaaS), Software as a Service(SaaS), , Public cloud, Private cloud, Hybrid cloud, Community cloud, Google Cloud architecture, The GCP Console, Understanding projects, Billing in GCP, Install and configure Cloud SDK, Use Cloud Shell, GCP APIs.

UNIT III:

Infrastructure as a Service (IaaS):

Introduction to IaaS, Introduction to virtualization, Different approaches to virtualization, Hypervisors, Machine Image, Virtual Machine(VM), Compute Final Year B Tech Computer

Engineering Syllabus Page 38 options in the cloud, Exploring IaaS with Compute Engine, Configuring elastic apps with autoscaling, Storage options in the cloud, Structured and unstructured storage in the cloud, unstructured storage using Cloud Storage, SQL managed services, Exploring Cloud SQL, Cloud Spanner as a managed service, NoSQL managed service options, Cloud Datastore, a NoSQL document store, Cloud Bigtable as a NoSQL option.

UNIT IV:

Platform as a Service (PaaS)

Introduction to PaaS, Service Oriented Architecture (SOA). Cloud Platform and Management, Exploring PaaS with App Engine, Event driven programs with Cloud Functions, Containerizing and orchestrating apps with Google Kubernetes Engine. Software as a Service (SaaS): Introduction to SaaS, Web services, Web 2.0, Web OS, Service Management in Cloud Computing: Service Level Agreements (SLAs), Billing and accounting, Billing in GCP. Actuators.

UNIT V:

Cloud Security:

Introduction to security in the cloud, the shared security model, Encryption options, Authentication and authorization with Cloud IAM, Identify Best Practices for Authorization using Cloud IAM..

UNIT VI:

Cloud Network :

Introduction to networking in the cloud, Defining a Virtual Private Cloud, Public and private IP address basics, Google's network architecture, Routes and firewall rules in the cloud, Multiple VPC networks, Building hybrid clouds using VPNs, interconnecting, and direct peering, Different options for load balancing. Protocols for IoT – Infrastructure protocol (IPV4/V6/RPL), Identification (URIs), Transport (Wifi, Lifi,

BLE), Discovery, Data Protocols, Device Management Protocols. – A Case Study with MQTT/CoAP usage-IoT privacy, security and vulnerability solutions. Case studies with architectural analysis: IoT applications – Smart City – Smart Water – Smart Agriculture – Smart Energy – Smart Healthcare – Smart Transportation – Smart Retail – Smart waste management

Exam

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	5	5	70

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination; Att: Attendance

Text & References:

Text

1. The Internet of Things: Enabling Technologies, Platforms, and Use Cases”, by Pethuru Raj and Anupama C. Raman, CRC Press.
2. Adrian McEwen, Designing the Internet of Things, Wiley, 2013.
3. Judith Hurwitz, R.Bloor, M.Kanfman, F.Halper, “Cloud Computing for Dummies”, Wiley,India.
4. Ronald Krutz and Russell Dean Vines, “Cloud Security”, Wiley-India
5. Gautam Shroff. “Enterprise Cloud Computing”, Cambridge

References:

6. Barrie Sosinsky, “Cloud Computing Bible”, Wiley India
7. Anthoy T Velte, et.al, “Cloud Computing : A Practical Approach”, McGraw Hill.
8. Michael Miller, “Cloud Computing”, Que Publishing.
9. Tim Malhar, S.Kumaraswamy, S.Latif, “Cloud Security & Privacy”, SPD,O'REILLY
10. Scott Granneman, “Google Apps”, Pearson

Advanced Robotics

Course Code: BRI 703

Credit Units: 03

Course Objective:

To understand the importance of robotics in scientific and industrial domains. To introduce mathematical aspects of robotics such as spatial transformations, kinematics, dynamics, trajectory generation, actuators, and control.

Course Contents:

Module I: Basic of robotics

Introduction to robotics; Elements of robots; Kinematics of serial and parallel robots; Velocity and static analysis of robots; Dynamics of robots; Motion planning and control; Flexible manipulators; Wheeled mobile robots; Basic concepts of industrial automation and communication protocols for PLC, DCS, SCADA systems

Module II: Advanced Concepts

Advanced concepts in robotics; Introduction to Cloud and Fog robotics.

Module III: Automation

Basic concepts of industrial automation and communication protocols for PLC, DCS, SCADA systems

Module IV: IoT

Introduction to Internet of Things, Protocols and real time applications and all other operation over arrays, matplotlib: plotting of line graph, pi chart and box plot etc.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	5	5	70

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination; Att: Attendance

Text & References:

Text

1. Bruno S and Sciavicco L, Robotics: Modelling, Planning and Control, Springer (2009).
2. John J C, Introduction to Robotics: Mechanics and Control , Addison-Wesley (1989).

References:

1. Fu K S, Ralph G and Lee C S G, Robotics: Control Sensing. Vision, and Intelligence , Tata McGraw-Hill (1987).
2. Mukhopadhyay S, Sen S and Deb A K, Industrial Instrumentation, Control and Automation, Jaico (1999).
3. Rajkumar B and Dastjerdi A V, Internet of Things: Principles and Paradigms , Morgan Kaufmann (2016).



AMITY UNIVERSITY

RAJASTHAN

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Applied Chemistry-I LAB	BTF 123	4:0:0	4	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstration of titration process.
CLO 2	Learning about Beer's Law
CLO 3	Spectroscopic analysis

Unit:01

List of Experiments

1. Titration of phosphoric acid and sodium hydroxide solution using pH meter.
2. Verification and application of Beer's Law.
3. Spectroscopic analysis of iron in water sample.
4. Conductometric titration.
5. Determination of water molecules of crystallization in Mohr's salt.
6. (A) Determination of surface Tension of liquid.
(B) Application of surface tension method in mixture analysis.
7. Application of distribution law in the determination of equilibrium constant.
8. Analysis of iron ore.
9. Plant pigments separation by paper chromatography.

Examination Scheme:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
30	15	05	20	10	10	10

SemesterII



AMITY UNIVERSITY

RAJASTHAN

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Applied Mathematics-II	BTF 201	4:0:0	4	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Solve system of linear equations; be familiar with the definition and properties of matrix; find the eigenvalues and eigenvectors of a square matrix.
CLO 2	Investigate the properties of vectors and study their differentiation and integration properties.
CLO 3	Calculate the measure of central tendency and doing curve fitting.

B. SYLLABUS:

Module I: Linear Algebra

Definition of a Matrix, Operations on Matrices Determinants, Elementary Operations, Reduction of a Matrix to Row Echelon Form, Rank of a Matrix, Consistency of Linear Simultaneous Equations, Gauss Elimination and Gauss Jordan – Method, Eigen values and Eigen Vectors of Matrix, Caley-Hamilton theorem, Diagonalization of a matrix.

Module II: Complex Number

Definition of Complex Number, Equality, Conjugate and Modulus of a Complex Number, Polar form of a Complex Number, De-Moivre's Theorem,

Module III:

Roots of a Complex Number, Exponential and Circular function of a Complex Number, Hyperbolic Functions and their inverses.

Module IV: Vector Calculus

Scalar and vector field, Gradient, Divergence and Curl, Directional Derivative, Evaluation of a Line Integral, Green's theorem in plain (without proof), Stoke's theorem (without proof) and Gauss Divergence theorem (without proof)

Module V: Statistics

Frequency Distribution, Arithmetic Mean, Median, Partition Values, Mode, Variance and Standard Deviation, Curve Fitting, Principle of least squares, Linear regression.

Module VI: Probability

Introduction to Probability, Addition and Multiplication theorem of Probability, Random variables and Probability Distribution, Expected values, Binomial distribution, Poisson distribution and Normal Distribution and their Applications.

Examination Scheme:

Components	Mid Term	Attendance	Assignment/Project/Seminar/Quiz	Class Test	Viva	EE
Weightage (%)	15	5	10	10	10	50

Text & References:

- Dass, H.K. (2011). Higher Engineering Mathematics, S. Chand, Delhi.
- Mishra, S. (2013). Fundamentals of Mathematics Functions: Functions and Graphs. Pearson Education, First ed.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
NUMERICAL ANALYSIS AND PROGRAMMING	BMT 301	3 0 0	3	III

A. Course Learning Outcomes:

CLO 1	Able to create numerical methods to obtain approximate solutions to mathematical problems.
CLO 2	Explain the numerical methods for various mathematical operations
CLO 3	Evaluate the accuracy of common numerical methods.

Syllabus

Module I: Solution of Algebraic and Transcendental Equation

Error in a series approximation, Bisection Method, Iteration method, Method of false position, Newton-Raphson method

Solutions of Simultaneous equation

Gauss elimination method, Jacobi iteration method, Gauss Seidal method

Module II:

Interpolation

Finite Differences, Difference tables

Polynomial Interpolation: Newton's forward and backward formula

Central Difference Formulae: Gauss forward and backward formula.

Interpolation with unequal intervals: Lagrange's Interpolation, Newton Divided difference formula

Module III: Numerical Integration and Differentiation

Introduction, Numerical differentiation Numerical Integration: Trapezoidal rule, Simpson's 1/3 and 3/8 rules.

Module IV: Solution of differential Equations

Euler's Method, Runge-Kutta Methods.

Module V: Statistical Computation

Frequency chart, Curve fitting by method of least squares, fitting of straight lines, polynomials, exponential curves etc, Data fitting with Cubic splines.

Evaluation:

n:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

Text:

- Rajaraman V, "Computer Oriented Numerical Methods", Pearson Education
- Gerald & Whealey, "Applied Numerical Analyses", AW
- Jain, Iyengar and Jain, "Numerical Methods for Scientific and Engineering Computations", New Age Int.
- Grewal B S, "Numerical methods in Engineering and Science", Khanna Publishers, Delhi

References:

- T Veerarajan, T Ramachandran, "Theory and Problems in Numerical Methods, TMH
- Pradip Niyogi, "Numerical Analysis and Algorithms", TMH
- Francis Scheld, "Numerical Analysis", TMH
- Sastry S. S, "Introductory Methods of Numerical Analysis", Pearson Education.
- Gupta C.B., Vijay Gupta, "Introduction to Statistical Methods", Vikas Publishing.
- Goyal, M, "Computer Based Numerical and Statistical Techniques", Firewall Media, New Delhi.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MECHANICS OF MACHINES	BMT 302	2 1 0	3	III

A. Course Learning Outcomes:

CLO 1	Understand rigid body motion, force, momentum expression in vectorial form
CLO 2	Analyze balancing problems in rotating and reciprocating machinery
CLO 3	Perform static and dynamic analysis to attain equilibrium in mechanisms and synthesize mechanisms for motion, path, and function generation
CLO 4	Analyze velocity and acceleration of different links of a given mechanism

Course Contents:

Module I: **BASICS OF MECHANISMS**

Terminology and Definitions-Degree of Freedom Mobility-Kutzbach criterion- Grashoff's law- Kinematic Inversions of 4-bar chain and slider crank chains-Mechanical Advantage-Transmission angle Description of common Mechanisms-Single, double and offset slider mechanisms - Quick return mechanisms - Ratchets and escapements - Indexing Mechanisms

Module II: **KINEMATICS**

Displacement, velocity and acceleration and analysis in simple mechanisms - Graphical Method velocity and acceleration polygons - Computer applications in the kinematic analysis of simple mechanisms-Coincident points

Module III: **BALANCING OF ROTATING MASSES**

Static and dynamic balancing – Balancing of rotating masses – Balancing a single cylinder engine – Balancing of Multi-cylinder inline, V-engines – Partial balancing in engines – Balancing of linkages – Balancing machines-Field balancing of discs and rotors.

Module III: **BASIC CONCEPTS OF VIBRATION**

Vibration and oscillation, causes and effects of vibrations, Vibration parameters –spring, mass damper, Damper models, Motion – periodic, non-periodic, harmonic, non- harmonic, – Degree of freedom, –static equilibrium position, –Vibration classification, Steps involved in vibration analysis.

Module III: **FORCED VIBRATION**

Response of one degree freedom systems to periodic forcing – Harmonic disturbances –Disturbances caused by unbalance – Support motion –transmissibility – Vibration isolation vibration measurement.

Evaluation:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

Text:

- Rattan S.S, Theory of Machines, Tata McGraw-Hill Publishing Company Ltd., New Delhi, 2009

- R. S. Khurmi, J.K. Gupta, Theory Of Machines, Eurasia Publishing House, 2005
- References:**
- Thomas Bevan, Theory of Machines, CBS Publishers and Distributors, 2005
 - Ghosh A and A.K.Mallick, Theory of Mechanisms and Machines, Affiliated East - West Pvt. Ltd., New Delhi, 1998.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MANUFACTURING PROCESS	BMT 303	3 0 0	3	III

Course Learning Outcomes

CLO 1	Illustrate the basic principles of foundry practices and special casting processes, their Advantages, Limitations and Applications
CLO 2	Explain and relate the basics of hot and cold working process, their advantages, Limitations and Applications
CLO 3	Demonstrate the various types of joining processes and select the appropriate one according to the application
CLO 4	Illustrate basic principles of working of machine tools viz. Lathe, Milling, Grinding, Drilling machines etc.
CLO 5	Distinguish between basic manufacturing processes

Course Contents:

Module I: Introduction to Machine

Tools

Classification of machine tools, kinds of motion in machine tool operations, definition of cutting speed, feed and depth of cut

Module II: Lathe

Classification and various parts of Lathe, specification, Description of important mechanism viz. apron, tail stock, head stock, work holding, devices and operations, e.g. taper, turning, eccentric turning and screw-cutting, Geometry of a single point cutting tool. Capstan and turret lathe, cutting speed, feed, depth of cut and calculation machining time in lathe machine

Module III: Drilling Machine

Geometry and nomenclature of a twist drill, specification and classification of drilling machines, tool holding devices, work holding devices, different types of operations performed on a drilling machine, cutting speed, feed, depth of cut and calculation machining time in drilling

Module IV: Milling Machine

Working principle, milling methods, classification of milling machines, different types of operations e.g. slab, face, Angular, form, straddle, gang, end, T-slot, saw milling operations, Dividing Head e.g. Plain, universal and optical, Indexing methods e.g. simple, compound and differential indexing

Module V: Shaper, Slotter & Planer

Principal part of a shaper, classification, Quick Return mechanism, table feed mechanism of a shaper, Operations, e.g. horizontal, vertical and inclined shaping, Principal part of a Planer, Types of planer, Planer Operations, Principal part of a Slotter, Types of slotter, Difference between a shaper, planer and slotter.

Module VI: Grinding Machines

Abrasive machining, surface finishing parameters, grinding wheels selection parameters, wheel turning and dressing, Types of grinding machines e.g. Rough grinders, Cylindrical grinders, Internal grinders,

surface grinder, Tool and cutter grinder, special purpose grinding machines.

Module VII: Special Machines

Introduction of NC, DNC and CNC machines, Broaching machines, Gear hobbing machine, Lapping, honing and super finishing processes.

EXAMINATION

SCHEME:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE:Mid-term Examination, **ESE:** End Semester Examination; **A:** Attendance

Text & References:

Text:

- P.N. Rao, “Manufacturing Technology: Metal Cutting & Machine Tools”, Tata McGraw Hill, Delhi, 2004.
- B.S. Raghuwanshi, “Workshop Technology”, Vol.2, Dhanpat Rai & Sons, 2003.
- Hazra Chandhari S.K., “Elements of Workshop Technology”, Vol.2, Media Promoters, 2003.

References:

- P.C. Sharma, “A Text Book of Production. Engineering”, S. Chand, New Delhi, 2004.
- Bawa H.S., “Workshop Technology”, Vol.2, Tata McGraw Hill, 2004.
- Juneja & Shekhon, “Fundamental of Metal Cutting”, New Age Publications
- S.F. Krar Stevan F. and Check A.F., “Technology of M/C Tools”, McGraw Hill Book Co., 1986.
- Kibbe Richard et al, “M/c Tool practices”, Prentice Hall India, 2003.
- Bangalore HMT, “Production Technology”, Tata McGraw Hill, 1980.
- R.K. Jain, “Production Technology”, Khanna Publishers
- Gerling Heinrich, “All about Machine Tools”, New Age Publication, 2003.

Amity School of Engineering and Technology (ASET)

A. Course Learning Outcomes:

Course Name	Course Code	L T P	Credit	Semester
Introduction to Automation	BMT 304	2 1 0	3	III
CLO 1	To introduce the importance of automation techniques manufacturing and process industries			
CLO 2	To impart the role of PLC in industry automation			
CLO 3	To expose to various control techniques employed in process automation			
CLO 4	To develop automation system for manufacturing and process industries			

B. Syllabus

Module-I: Introduction

Concept of optimization – classification of optimization – problems.

Module-II: Linear Programming

Examples of linear programming problems – formulation simplex methods variable with upper bounds – principleduality -dual simplex method - sensitivity analysis – revised simplex procedure – solution of the transportation problem – assignment – network minimization – shortest route problem – maximal two problem – L.P. representation of networks

Module-III: Queuing Theory

Queuing Model, poison and exponential distributions -Queues with combined arrivals and departures-random and series queues.

Module-IV: Unconstrained Optimization

Maximization and minimization of convex functions. Necessary and sufficient conditions for local minima – speed and order of convergence – univariate search – steepest and descent methods- metcher reeves method -conjugate gradient method.

Module-V: Constrained Optimization

Necessary and sufficient condition – equality constraints, inequality constraints -kuhu – tucker conditions – gradient projection method – penalty function methods – cutting plane methods of sibel directions.

Examination Scheme:

Components	Internal assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Exam, ESE: End Semester Examination;

Text & References

Text

1. Rao S.S, "Optimization – Theory and applications", Wiley Easter Ltd., 1979

References

1. David G.Luerbeggan, "Introduction to Linear and Non Linear Programming", Addison Wesley Publishing Co. 1973.

2. Hadley G. "Nonlinear and – dynamic programming" Addison Wesley Publishing Co. 1964.

3. Cordan C.C. Beveridge and Robert S. Schedther, "Optimization, Theory and Practice" McGraw Hill Co.1970.
4. HarndyA.Tahh. "operations Research, An Introduction", Macmillan Publishers

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
NUMERICAL ANALYSIS & PROGRAMMING LAB	BMT 321	0 0 2	1	3

A. Course Learning Outcomes:

CLO 1	Use the bisection method, false position, Newton's, Secant method to estimate the number of iterations in the algorithm to achieve desired accuracy with the given tolerance;
CLO 2	Programming Skills: write numerical programs, such as C Language programs, to solve the above problems;
CLO 3	Use polynomial interpolations including the Lagrange polynomial, Newton's cotes, cubic spline functions, for curve fitting method to evaluate the interpolations;

B. Syllabus

NUMERICAL ANALYSIS & PROGRAMMING LAB

Course Code: BMT 321

Credit Units: 01

Software Required: Turbo C/C++

Course Contents:

Assignments will be provided for the following:

1. Analysis of various numerical and statistical techniques

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	10	10	5	35	35

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
Mechanics of Machines Lab	BMT 322	0 0 2	1	3

A. Course Learning Outcomes:

CLO 1	Analyze the planar mechanisms for positional synthesis
CLO 2	Understand rigid body motion, force, momentum expression in vectorial form
CLO 3	Analyze balancing problems in rotating and reciprocating machinery.
CLO 4	Understand free and forced vibrations of single degree freedom systems

B. Syllabus

List of Experiments:

1. To study various types of Kinematic links, pairs, chains and Mechanisms.
2. To study inversions of 4 Bar Mechanisms, Single and double slider crank mechanisms.
3. Create various types of linkage mechanism in CAD and simulate their motions
4. Analysis of velocity and acceleration for mechanical linkages of different mechanisms - Use of kinematics and dynamics simulation software like ADAMS, MATLAB
5. Balancing of reciprocating masses.
6. Balancing of rotating masses.
7. Vibrating system-Spring mass system-Determination of damping co-efficient of single degree of freedom system using MATLAB.
8. Transverse vibration –free- Beam. Determination of natural frequency and deflection of Beam.
9. Determination of moment of inertia by oscillation method for connecting rod and flywheel.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MANUFACTURING PROCESS LAB	BMT 323	0 0 2	1	3

A. Course Learning Outcomes:

CLO 1	apply some of the manufactures process directly in the industry for preparation of complicated jobs.
CLO 2	learn preparation of various jobs using various manufacturing process
CLO 3	implement similar features in preparation of jobs can be extended to implement in the preparation of complicated jobs

B. Syllabus

1. Operations on the Lathe Machine.
2. Operations on the Shaper Machine.
3. Operations on the Planner Machine.
4. Operations on the Drilling Machine.
5. Operations on the Grinding Machine.
6. Operations on the Milling Machine.
7. To make a Single point cutting tool

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

COMPUTER AIDED DRAFTING AND DESIGN LAB

Course Code: BME 425

P:02 C:01

Course Contents:

1. Basics of Auto CAD
2. Modeling of machine Components such as Connecting Rod, Piston etc.
3. Introductory exercise for 3-D modeling.
4. Exercise for advanced 3-D modeling.
5. Exercise for 3-D editing options.
6. Exercise for Assembly modeling.
7. Exercise for surface modeling.
8. Using Any One (From CREO, Unigraphics, CATIA, Solid Edge, Inventor) Parametric Software.
 - a. Prepare solid models of dismantled parts of an assembly.
 - b. Assemble the parts.
 - c. Get orthographic projection of solid models prepared at “a” above.
 - d. Get orthographic projection of an assembly model prepared at “b” above.
 - e. Prepare the bill of material (BOM).
 - f. Prepare a power point presentation of the work.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MICROPROCESSOR-II LAB	BMT 623	0 0 2	1	6

A. Course Learning Outcomes:

CLO 1	Set up programming strategies and select proper mnemonics and run their program on the training boards.
CLO 2	Develop testing and experimental procedures on Microprocessor and Microcontroller analyze their operation under different cases.
CLO 3	Prepare professional quality textual and computational results, incorporating accepted data analysis and synthesis methods, simulation software, and word-processing tools.
CLO 4	Identify relevant information to supplement to the Microprocessor and Microcontroller course.

B. Syllabus:

Course Contents:

MODULE 1 –SENSORS

1. Familiarization of various sensors
2. Sensor behaviour, calibration
3. Measurement of force, pressure and strain
4. Measurement of position, velocity and temperature

MODULE 2 – MOTION CONTROL

1. Conveyor System – Uni-axial , Dual-axial control applications
2. Material Elevator - Vertical material handling application
3. Linear Operation : X-Y Table , Pushing applications
4. Rotating Operation : Indexing table /Positioning applications
5. Feeding : Feeding application like cut to length application or Labelling Application
6. Closed Loop Control of Pressure, Temperature
7. Integration Options

MATLAB ASSIGNMENTS

1. Visualize Sensor Coverage, Detections, and Tracks
2. Optical Sensor Image Generation
3. Collision Detection Using Line Sensor
4. Measure Strain using an Analog Bridge Sensor
5. Track and Follow an Object
6. Tuning of a Digital Motion Control System
7. Stepper Motor with Control
8. Power Window Control Project
9. Control Stepper Motor using Digital Outputs

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Course Name	Course Code	L T P	Credit	Semester
ALTERNATIVE SOURCES OF ENERGY	BME 307	3 0 0	3	III

Amity School of Engineering and Technology (ASET)

Course Learning Outcomes

CLO 1	Conceptual knowledge of the technology, economics and regulation related issues associated with wind and alternative sources of energy
CLO 2	Ability to analyse the viability of wind and alternative energy projects
CLO 3	Capability to integrate various options and assess the business and policy environment regarding wind and alternative energy projects

Course Contents:

Module I: Introduction

Energy source, India's production and reserves of commercial energy sources, need for non-conventional energy sources, energy alternatives, solar, thermal, photovoltaic. Water power, wind biomass, ocean temperature difference, tidal and waves, geothermal, tarsands and oil shale, nuclear (Brief descriptions); advantages and disadvantages, comparison (Qualitative and Quantitative).

Module II: Solar Thermal Conversion: Collection and storage, thermal collection devices, liquid flat plate collectors, solar air heaters concentrating collectors (cylindrical, parabolic, paraboloid) (Quantitative analysis); sensible heat storage, latent heat storage, application of solar energy water heating. Space heating and cooling, active and passive systems, power generation, refrigeration. Distillation (Qualitative analysis) solar pond, principle of working, operational problems.

Module III: Wind Energy: Properties of wind, availability of wind energy in India, wind velocity and power from wind; major problems associated with wind power, wind machines; Types of wind machines and their characteristics, horizontal and vertical axis wind mills, elementary design principles; coefficient of performance of a wind mill rotor, aerodynamic considerations of wind mill design, numerical examples.

Module IV: Geothermal and Tidal Energy: Geothermal Energy Conversion : Principle of working, types of geothermal station with schematic diagram, geothermal plants in the world, problems associated with geothermal conversion, scope of geothermal energy.

Tides and waves as energy suppliers and their mechanics; fundamental characteristics of tidal power, harnessing tidal energy, limitations. Ocean Thermal Energy Conversion : Principle of working, Rankine cycle, OTEC power stations in the world, problems associated with OTEC.

Module V: Energy from Biomass: Photosynthesis, photosynthetic oxygen production, energy plantation, bio gas production from organic wastes by anaerobic fermentation, description of bio-gas plants, transportation of bio-gas, problems involved with bio-gas production, application of bio-gas, application of bio-gas in engines, advantages.

Evaluation:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

- Non-Convention Energy Resources B H Khan McGraw Hill Education (India) Pvt. Ltd. 3rd Edition
- Solar energy Subhas P Sukhatme T ata McGraw Hill 2nd Edition, 1996.
- Non-Conventional Energy Sources G.D Rai Khanna Publishers 2003

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
COMPUTER GRAPHICS	BMT 308	3 0 0	3	3

A. Course Learning Outcomes:

CLO 1	To understands the core concepts and mathematical foundations of computer graphics
CLO 2	To knows fundamental computer graphics algorithms and data structures
CLO 3	Understand overview of different modeling approaches and methods
CLO 4	To Understands light interaction with 3D scenes
CLO 5	Distinguish between basic manufacturing processes

A. Syllabus

B.

Module I: Introduction to Graphics and Graphics Hardware System

Video display devices, CRT, LCD Display devices Raster scan displays, Random scan displays, Raster scan systems, Random scan Systems. Input devices, keyboard, mouse, Trackball and spaceball, Joystick, Data glove, Digitizers, Image scanners, Touch panels, Light pens, Voice systems. Hardcopy devices, Printers, Plotters.

Module II: Output Primitives and Clipping operations

Algorithms for drawing 2D Primitives lines (DDA and Bresenham's line algorithm), circles (bresenham's and midpoint circle algorithm), ellipses (midpoint ellipse algorithm), other curves (conic sections, polynomials and spline curves). Antialiasing and filtering techniques Line clipping (cohen-sutherland algorithm), clip windows, circles, ellipses, polygon, clipping with Sutherland Hodgeman algorithm.

Module III: Geometric transformation

2D Transformation: Basic transformation, Translation, Rotation, scaling, Matrix Representations and Homogeneous coordinates, window to viewport transformation. 3D Concepts: Parallel projection and Perspective projection, 3D Transformation.

Module IV: 3D object Representation, Colour models and rendering

Polygon meshes in 3D, Spheres, Ellipsoid, Bezier curves and Bezier surfaces, Bspline curves and surfaces, solid modeling, sweep representation, constructive solid geometry methods. Achromatic and color models. Shading ,rendering techniques and visible surface detection method: Basic illumination, diffuse reflection, specular reflection. Polygon rendering method, Gouraud & Phong shading. Depth-buffer method, A-buffer method, Depth-sorting method (painter's algorithm).

Module V: Introduction to multimedia

File formats for BMP, GIF, TIFF, IPEG, MPEG-II, Animation techniques and languages.

Evaluation:

Components	Internal Assessment	Attendance	MTE	ESE
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Weightage (%)	30	5	15	50
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Text & References:

Text:

- Foley et. al., “Computer Graphics Principles & practice”, 2nd ed. AWL., 2000.
- D. Hearn and P. Baker, “Computer Graphics”, Prentice Hall, 1986.
- R. Plastock and G. Kalley, “Theory and Problems of Computer Graphics”, Schaum’s Series, McGraw Hill, 1986

References:

- R.H. Bartels, J.C. Beatty and B.A. Barsky, “An Introduction to Splines for use in Computer Graphics and Geometric Modeling”, Morgan Kaufmann Publishers Inc., 1987.
- C.E. Leiserson, T.H. Cormen and R.L. Rivest, “Introduction to Algorithms”, McGraw-Hill Book Company, 1990.
- W. Newman and R. Sproul, “Principles of Interactive Computer Graphics, McGraw-Hill, 1973.
- F.P. Preparata and M.I. Shamos, “Computational Geometry: An Introduction”, Springer-Verlag New York Inc., 1985.

Course Name	Course Code	L T P	Credit	Semester
APPLIED THERMODYNAMICS	BMT 401	3 0 0	3	IV

Amity School of Engineering and Technology (ASET)

Course Learning Outcomes

CLO 1	To relate the zeroth, first and second laws to basic thermodynamic properties, like energy, temperature, and entropy, and to interactions like work and heat
CLO 2	To interpret entropy change and entropy production and the related terms isentropic and reversible
CLO 3	To derive property relations in an easy manner, and get used to the steam tables
CLO 4	Solve problems by applying the first and second law of thermodynamics

B. Syllabus

Module I: Basic concepts of thermodynamics

Thermodynamic system, intensive and extensive properties, cyclic process, Zeroth Law of Thermodynamics, Work and heat, Flow work, First law of thermodynamics, Mechanical equivalent of heat, internal energy, Analysis of non-flow system, flow process and control volume, steady flow, energy equation, flow processes

Module II: Second Law of Thermodynamics and Entropy
Heat Engine, heat pump, Kelvin Planck and Clausius statement of Second Law of Thermodynamics, Perpetual motion machine, Reversible cycle- Carnot Cycle, Clausius inequality, entropy, Principle of entropy increase, concepts of availability, irreversibility, Carnot theorem, Max-well-relation,

Module III: Air-Standard Cycles

Carnot cycle, Otto cycle, Diesel cycle, Dual cycle, Stirling cycle, Ericsson cycle, Brayton cycle; Reversed Carnot cycle.

Module IV: Steam

Use of steam tables, wet steam, superheat steam, different processes of vapour, Mollier Diagram, steam Nozzle, calorimeter.

Module V : Compressors

Introduction, Types of compressors, Isothermal efficiency, adiabatic efficiency, clearance volume, volumetric efficiency, and multi-stage compression with intercooling.

Evaluation:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

Text:

- P.K. Nag, "Engineering Thermodynamics", Tata McGraw Hill
- Incropera, "Engineering Thermodynamics", John Willy

References:

- Engel, T. and Reid, P., Thermodynamics, Statistical Thermodynamics & Kinetics, Pearson Education, 2006
- Cengel & Boles, "Thermodynamics", Tata McGraw Hill.
- Sonntag/Vanhyllene, Fundamentals of Thermodynamics, Wiley
- Rahul Gupta, Engineering Thermodynamics, Asian Books P. Ltd.
- Y.V.C. Rao, Engineering Thermodynamics, Khanna Publications
- Onkar Singh, Applied Thermodynamics, New Age Publications.

- Dhomkundwar Kothandaraman, "A Course in Thermal Engineering", Dhanpat Rai Publications

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
FLUID MECHANICS	BMT 402	2 1 0	3	IV

A. Course Learning Outcomes

CLO 1	Define the different types of fluid and its properties
CLO 2	Understand and analyze the different types of flow
CLO 3	Solve simple problems relating to fluid
CLO 4	Define, analyze boundary layer and solve simple problems relating to the above concepts.

B. Syllabus

Module I: Fluid Properties and Fluid

Statics

Newtonian and Non-Newtonian Fluids; Viscosity; Incompressible and compressible fluids, compressibility. Forces on plane surfaces, forces on curved surfaces, buoyant forces, and stability of floating bodies, metacentre and metacentre height.

Module II: Kinematics of Fluid

Motion

Steady and unsteady flow; uniform and non-uniform flow; Laminar and turbulent flow; streamline, path line and streak line; continuity equation, irrotational and rotational flow, velocity potential and stream function, vortex flow, free and forced vortex, sink and source flow.

Module III: Dynamics of Fluid

Flow

Euler's equation of motion and its integration to yield Bernoulli's equation, its practical applications – Pilot tube, Venturi meter; steady flow momentum equation, force exerted on a pipe bend. Measurement of flow using Venturi meter, orifice meter, Pitot tube, measurement of flow in open channels – rectangular, triangular

Module IV: Dimensional Analysis and Principles of

Similarity

Buckingham Π -Theorem and its applications, Geometric, Kinematics and Dynamic similarity; Dimensionless numbers-Reynolds, Froude, Euler, Mach, Weber Number and their significance.

Module V: Laminar and Turbulent

Flow

Reynold's experiment, critical velocity, steady laminar flow through a circular tube, flow between parallel plates. Transition from laminar to turbulent flow, courses of turbulence, velocity distribution law near a solid boundary, velocity distribution in rough pipes, Hazen – Williams's formula. Boundary layer theory.

Module VI: Analysis of Pipe

Flow

Energy losses, minor losses in pipe lines, concept of equivalent length, flow between two reservoirs, and multiple pipe systems – in series and parallel, siphon.

Evaluation:

n:

Components	Internal Assessment	Attendance	MTE	ESE
Weight age (%)	30	5	15	50

Text & References:

Text:

- R.K. Bansal, “Fluid Mechanics & Hydraulic Machines”, Laxmi Publications (P) Ltd., 2002.
- Gupta, S. C., Fluid Mechanics and Hydraulic Machines, Pearson Education, 2007
- D.S. Kumar, “Fluid Mechanics and Fluid Power Engineering”, S.K. Kataria & Sons, 2000.

References:

- F. M. White, Introduction to Fluid Mechanics, McGraw Hill
- I.H. Shames, “Mechanics of Fluids”, Tata McGraw Hill
- Douglas, J. F., Gasiorek, J.M. and Swaffield, J., Fluid Mechanics, Pearson Education, 4/e, 2006
- V.L. Streeter and E.B. Wylie, “Fluid Mechanics”, Tata McGraw Hill
- Massey B S, Mechanics of Fluids, Van Nostrand Reinhold Co

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
METROLOGY	BMT 403	3 0 0	3	IV

Course Learning Outcomes

CLO 1	Investigate – various national and international organizations from which we get many of our metrology references, resources, and standards
CLO 2	Create – mathematical models of fundamental physical phenomenon and apply them to predict the behaviour of engineering systems
CLO 3	Apply – dimensional analysis concepts correctly by looking up reference values for unit conversions; accurately perform associated mathematics, and present final values with the correct units/symbols
CLO 4	Develop – Ability to perform and conduct basic experiments and evaluate the results of the same

Course Contents:

Module I: Principles of measurement

Definition of Metrology, difference between precision and accuracy. Sources of errors: Controllable and Random Errors, Effects of Environment and Temperature, Effects of support, alignment errors.

Length Standards: Line standards, end standards and wavelength standards, transfer from line standards to end standards. Numerical based on line standards. Slip gauges – its use and care, methods of building different heights using different sets of slip gauges.

Limits, fits and tolerances: Various definitions, different types of fits and methods to provide these fits. Numerical to calculate the limits, fits and tolerances, ISO system of limits and fits; Gauges and its types, limit gauges – plug and ring gauges. Gauge Design – Taylor's Principle, wear allowance on gauges.

Module II: Comparators

Principles and working of Mechanical, Electrical, Optical and Pneumatic Comparators.

Angular Measurement: Sine Bar – different types of sine bars, use of sine bars in conjunction with slip gauges, Use of angle gauges, spirit level, errors in use of sine bars. Numericals. Principle and working of autocollimator.

Module III: Straightness and flatness

Definition of Straightness and Flatness error. Numericals based on determination of straightness error of straight edge with the help of spirit level and auto

collimator

Screw Thread Measurement: Errors in threads, Measurement of elements of screw threads – major diameter, minor diameter, pitch, flank angle and effective diameter (Two and three wire methods). Effect of errors in pitch and flank angles

Gear Measurement: Measurement of tooth thickness – Gear tooth vernier caliper, Constant chord method, base tangent method and derivation of mathematical formulae for each method. Parkinson Gear Tester.

Module

IV

IV

Coordinate measuring machine (CMM)- Constructional features – types, applications –

digital devices- computer aided inspection.

Surface texture: Introduction, types of irregularities, Elements of surface

Texture, Measurement of surface finish, Examination of surface Roughness.

EXAMINATION

SCHEME:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE:Mid-term Examination, **ESE:** End Semester Examination; **A:** Attendance

Text and Reference Books:

1. Engineering Metrology and Measurement, N V Raghavendra and Krishnamurthy, Oxford University Press,
2. Engineering Metrology and Measurements, Bentley, Pearson Education
3. Theory and Design for Mechanical Measurements, 3 rd Edition, Richard S Figliola, Donald E Beasley, Wiley India
4. Metrology and Measurement, Anand Bewoor & Vinay Kulkarni McGraw-Hill
5. Doebelin's Measurement Systems Ernest Doebelin, Dhanesh Manik McGraw-Hill
6. A Text book of Engineering Metrology, I C Gupta, Dhanpat Rai Publications
8. A course in Mechanical Measurements and Instrumentation, A K Sawhney, Dhanpat Rai Publications
7. Mechanical Measurements and Instrumentations, Er. R K Rajput, Kataria Publication (KATSON)
8. Mechanical Measurement and Metrology by R K Jain, Khanna Publisher Mechanical Measurement & Control by D.S. Kumar.
9. Industrial Instrumentation & Control by S K Singh, McGraw Hill
10. Mechanical Measurements by Beckwith & Buck, Narosa publishing House

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MICROPROCESSOR-II	BMT 405	2 0 0	2	IV

Course Learning Outcomes

CLO 1	Describe basic concept of microcomputers.
CLO 2	Understand the memory system and interface design
CLO 3	To understand the working of transistor at high frequency

Course Contents:

Module I: Introduction to Microcomputer Systems

Introduction to Microprocessors and microcomputers, Study of 8 bit Microprocessor, 8085 pin configuration, Internal Architecture and operations, interrupts, Stacks and subroutines, various data transfer schemes.

Module II: ALP and timing diagrams

Introduction to 8085 instruction set, advance 8085 programming, Addressing modes, Counters and time Delays, Instruction cycle, machine cycle, T-states, timing diagram for 8085 instruction.

Module III: Memory System Design & I/O Interfacing

Interfacing with 8085. Interfacing with input/output devices (memory mapped, peripheral I/O), Cache memory system. Study of following peripheral devices 8255, 8253, 8257, 8255, 8251.

Module IV: Architecture of 16-Bit Microprocessor

Difference between 8085 and 8086, Block diagram and architecture of 8086 family, pin configuration of 8086, Minimum mode & Maximum mode Operation. Internal architecture of 8086, Bus Interface Unit, Register Organization, Instruction Pointer, Stack & Stack pointer, merits of memory segmentation, Execution Unit, Register Organization.

Module V: Pentium Processors

Internal architecture of 8087, Operational overview of 8087, Introduction to 80186, 80286, 80386 & 80486 processors, Pentium processor.

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

Text:

- Ramesh. S. Gaonkar, "Microprocessor architecture Programming and Application with 8085" Penram International Publishing, 4th Edition
- B.Ram, "Fundamentals of microprocessors and microcomputer" Dhanpat Rai, 5th Edition.
- Douglas V Hall.

References:

- M. Rafiqzaman, "Microprocessor Theory and Application" PHI – 10th Indian Reprint.
- Naresh Grover, "Microprocessor comprehensive studies Architecture, Programming and Interfacing" Dhanpat Rai, 2003.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
THERMODYNAMICS LAB	BMT 421	0 0 2	1	4

A. Course Learning Outcomes:

CLO 1	Ability to perform test on diesel/petrol engine
CLO 2	Ability to study performance characteristic of different boilers.
CLO 3	Ability to determine the properties of the fuels.

B. Syllabus

- To study about the different Boilers.
- To study different types of Boilers mountings.
- To study different boilers accessories.
- To study two-stroke and four stroke petrol engine.
- To study two-stroke and four storke diesel engine.
- To study air reciprocation compressor unit.
- To determine the CV of fuel using bomb calorimeter.

Examination Schedule:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
FLUID MECHANICS LAB	BMT 422	0 0 2	1	4

A. Course Learning Outcomes:

CLO 1	Ability to perform test on diesel/petrol engine
CLO 2	Ability to study performance characteristic of different boilers.
CLO 3	Ability to determine the properties of the fuels.

B. Syllabus

FLUID MECHANICS LAB

1. Verification of Bernoulli's Theorem
2. Experiment using Venturimeter
3. Determination of coefficient of Discharge C_d , C_c , C_v Using
4. Circular/triangular/rectangular orifice
5. To find major head losses in a pipe line
6. To find minor head losses in a pipe line (sudden expansion/contraction/bend)

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
METROLOGY LAB	BMT 423	0 0 2	1	4

A. Course Learning Outcomes:

CLO 1	Demonstrate and use different length measuring instruments like vernier calipers and micrometers.
CLO 2	Explain different angle measuring instrument like universal bevel protractor, sine bar.
CLO 3	Formulate some unknown quantity or parameter of engineering interest.
CLO 4	Evaluate the surface quality of a given specimen which is important in all kind of manufacturing..

B. Syllabus

- 1 Set up a dimension by slip gauges (example 36.936; 14.727.....) Measure this set up by micrometer (least count 0.01) several times and read dimensions. Find statistical mean and record the expected variation between the actual dimension and dimension measured by micrometer.
- 2 To check the roundness of a circular bar with the help of dial gauge.
- 3 To calibrate the micrometer using slip gauges.
- 4 Check the bore in a component by a bore-indicator. Set the bore indicator by micrometer and measure the deviation in the bore. Measure several times and obtain the mean value at three positions along the length of the bore.
- 5 Set – up a sine bar for measuring the angle of an inclined surface (of a bracket, milling cutter arbor with 7/24 taper,). Measure the angle several times and record the mean value. Use height gauge wherever necessary.
- 6 Performance on angular measurement using angular measuring instruments.
- 7 Measure the straightness of a surface (surface plate; guide way of machine tool) by using straight edge and dial gauge and dial gauge stand.
- 10 To machine a given surface and study its roughness characteristics
- 11 Measure the dimensions of a mechanical component using profile projector
- 12 Measure the dimensions of a mechanical component using tool maker's microscope.
13. Measurement of Temperature with different devices.

Open ended Problem:

Students will work on an industrial based problem on measurement.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record,
V – Viva

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MICROPROCESSOR-II	BMT 405	2 0 0	2	IV

Course Learning Outcomes

CLO 1	Describe basic concept of microcomputers.
CLO 2	Understand the memory system and interface design
CLO 3	To understand the working of transistor at high frequency

Course Contents:

Module I: Introduction to Microcomputer Systems

Introduction to Microprocessors and microcomputers, Study of 8 bit Microprocessor, 8085 pin configuration, Internal Architecture and operations, interrupts, Stacks and subroutines, various data transfer schemes.

Module II: ALP and timing diagrams

Introduction to 8085 instruction set, advance 8085 programming, Addressing modes, Counters and time Delays, Instruction cycle, machine cycle, T-states, timing diagram for 8085 instruction.

Module III: Memory System Design & I/O Interfacing

Interfacing with 8085. Interfacing with input/output devices (memory mapped, peripheral I/O), Cache memory system. Study of following peripheral devices 8255, 8253, 8257, 8255, 8251.

Module IV: Architecture of 16-Bit Microprocessor

Difference between 8085 and 8086, Block diagram and architecture of 8086 family, pin configuration of 8086, Minimum mode & Maximum mode Operation. Internal architecture of 8086, Bus Interface Unit, Register Organization, Instruction Pointer, Stack & Stack pointer, merits of memory segmentation, Execution Unit, Register Organization.

Module V: Pentium Processors

Internal architecture of 8087, Operational overview of 8087, Introduction to 80186, 80286, 80386 & 80486 processors, Pentium processor.

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

Text:

- Ramesh. S. Gaonkar, "Microprocessor architecture Programming and Application with 8085" Penram International Publishing, 4th Edition
- B.Ram, "Fundamentals of microprocessors and microcomputer" Dhanpat Rai, 5th Edition.
- Douglas V Hall.

References:

- M. Rafiqzaman, "Microprocessor Theory and Application" PHI – 10th Indian Reprint.
- Naresh Grover, "Microprocessor comprehensive studies Architecture, Programming and Interfacing" Dhanpat Rai, 2003.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MACHINE DESIGN – I	BME 501	3 0 0	3	V

A. Course Learning Outcomes:

CLO 1	Analyse combined stresses in a plane (tension/compression and shear in two dimensions) using Mohr's Circle.
CLO 2	Evaluate the stress situation which involves additional design criteria other than static stress, such as cyclical loading and local stress concentrations due to notches.
CLO 3	Examine and identify the various elements involved in power transmission and rotary motion in a machine and analyse whether they are properly designed.
CLO 4	Understand and analyse the various elements of a machine followed by the appropriate selection of suitable components from manufacturers' catalogues.
CLO 5	Integrate the various individual elements into a system composed of several elements

B. Syllabus:

Module I: Variable stresses in Machine Parts

Fatigue and Endurance Limit, Factor of Safety for Fatigue Loading, Stress concentration, Notch sensitivity, Gerber Method, Goodman Method and Soderberg Method for a combination of stresses.

Module II: Power Screws

Types of screw threads, Torque required to raise and lower the load, Efficiency of square threaded screw, overhauling and self locking screw, stresses in power screw, design of screw jacks.

Module III: Shaft, Keys and Couplings

Design of shaft, Types of Keys, Splines, Strength of Sunk Key, types of shaft coupling, Sleeve and muff coupling, Flange coupling, Flexible coupling, Oldham coupling, Universal coupling.

Module IV: Cotter and Knuckle Joints

Types of cotter joints, design of socket and spigot joint, design of sleeve and cotter joint, design of jib and cotter joint, Design procedure of Knuckle joint.

Module V: Drives

Types of Belt drives, Flat Belt drives, Velocity ratio, Slip, Creep of Belt, Length of open Belt, length of cross belt, power transmission by belt, Maximum tension in the belt. Types of V belt and Pulleys, advantages and disadvantages of V belt over Flat Belt, Ratio of Driving tensions for V belt, Rope drives. Chain drives, advantages and disadvantages of Chain drives.

Module VI: Riveted and Welded Joint

Types of Riveted joint, Lap joint, Butt Joint, Caulking and Fullering, Failure of Riveted joint, Strength of Riveted joint, Efficiency of Riveted joint. Advantages and Disadvantages of welded joint over Riveted joint, Strength of Fillet joint, strength of Butt joints.

C. Examination Scheme:

Components	Internal Assessment	Attendance	MTE	ESE
Weight age (%)	30	5	15	50

D. Text & References:

- J.E. Shigley, Mechanical Engineering Design.
- Sadhu Singh, Machine Design
- R.S. Khurmi & J.K. Gupta, Machine design
- D.K. Aggarwal & P.C. Sharma, Machine Design

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
HEAT AND MASS TRANSFER	BME 503	3 0 0	3	V

A. Course Learning Outcomes:

CLO 1	Ability to do heat, mass and momentum transfer analysis.
CLO 2	Ability to analyze industrial problems along with appropriate boundary conditions.
CLO 3	Ability to develop steady and time dependent solutions along with their limitations

B. Syllabus:

Module I Conduction

One-dimensional steady-state conduction through homogeneous and composite plane walls, cylinders and spheres, critical thickness of insulation; heat transfer from fins of uniform cross section.

Module II Free convection

Introduction, Laminar Boundary Layer Equations of Free convection on a vertical flat plate, Integral method for Free convection on a vertical flat plate, Empirical correlations for Natural convection, Free convection under uniform heat flux, free convection caused by centrifugal forces.

Module III Forced convection Introduction, Parallel flow over a flat plate, flow over Cylinders and Spheres, Fully developed Laminar flow in circular Tubes, Flow of Liquid Metals, Combined free and forced convection

Module IV Radiation

Thermal radiation; Kirchoff's law; Planck's distribution law, Wien's displacement law; Stefan-Boltzmann's relation, Configuration factors; radiant interchange between black and grey surfaces; radiation shielding solar radiation.

Module V Heat exchangers

Combined heat transfer analysis; overall heat transfer co-efficient; types of heat exchangers; LMTD methods of heat exchanger design; simple heat exchanger calculations.

Module VI Mass transfer

Steady state molecular diffusion in fluids, Mass heat momentum transfer analysis, unsteady state diffusion, diffusion in solids, Fick's law of diffusion, interface mass transfer

C. Evaluation:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

D. Text & References:

- Incropera, F.P. and DeWitt, D.P. (2002). Fundamentals of Heat and Mass Transfer, John Wiley & Sons, New York, NY.
- Nag, P.K. (2002). Heat and Mass Transfer, TMH.
- John R. Howell & Richard O Buckius, Fundamentals of Engg. Thermodynamics, McGraw Hill International.
- Holman, J.P. (1997). Heat Transfer, 9th edition, McGraw-Hill.
- Mills, A.F. (1999). Basic Heat and Mass Transfer. Prentice-Hall.
- Thirumaleswar, M. (2006). Fundamentals of Heat and Mass Transfer, Pearson education.
- Ghoshdastidar, P.S. (2004). Heat Transfer. Oxford University Press.
- Arora, Domkundwar, S. and Domkundwar, A. (1988). A Course in Heat & Mass Transfer, Dhanpat Rai & Co.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
HEAT AND MASS TRANSFER	BME 503	3 0 0	3	V

A. Course Learning Outcomes:

CLO 1	Ability to do heat, mass and momentum transfer analysis.
CLO 2	Ability to analyze industrial problems along with appropriate boundary conditions.
CLO 3	Ability to develop steady and time dependent solutions along with their limitations

B. Syllabus:

Module I Conduction

One-dimensional steady-state conduction through homogeneous and composite plane walls, cylinders and spheres, critical thickness of insulation; heat transfer from fins of uniform cross section.

Module II Free convection

Introduction, Laminar Boundary Layer Equations of Free convection on a vertical flat plate, Integral method for Free convection on a vertical flat plate, Empirical correlations for Natural convection, Free convection under uniform heat flux, free convection caused by centrifugal forces.

Module III Forced convection Introduction, Parallel flow over a flat plate, flow over Cylinders and Spheres, Fully developed Laminar flow in circular Tubes, Flow of Liquid Metals, Combined free and forced convection

Module IV Radiation

Thermal radiation; Kirchoff's law; Planck's distribution law, Wien's displacement law; Stefan-Boltzmann's relation, Configuration factors; radiant interchange between black and grey surfaces; radiation shielding solar radiation.

Module V Heat exchangers

Combined heat transfer analysis; overall heat transfer co-efficient; types of heat exchangers; LMTD methods of heat exchanger design; simple heat exchanger calculations.

Module VI Mass transfer

Steady state molecular diffusion in fluids, Mass heat momentum transfer analysis, unsteady state diffusion, diffusion in solids, Fick's law of diffusion, interface mass transfer

C. Evaluation:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

D. Text & References:

- Incropera, F.P. and DeWitt, D.P. (2002). Fundamentals of Heat and Mass Transfer, John Wiley & Sons, New York, NY.
- Nag, P.K. (2002). Heat and Mass Transfer, TMH.
- John R. Howell & Richard O Buckius, Fundamentals of Engg. Thermodynamics, McGraw Hill International.
- Holman, J.P. (1997). Heat Transfer, 9th edition, McGraw-Hill.
- Mills, A.F. (1999). Basic Heat and Mass Transfer. Prentice-Hall.
- Thirumaleswar, M. (2006). Fundamentals of Heat and Mass Transfer, Pearson education.
- Ghoshdastidar, P.S. (2004). Heat Transfer. Oxford University Press.
- Arora, Domkundwar, S. and Domkundwar, A. (1988). A Course in Heat & Mass Transfer, Dhanpat Rai & Co.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
HEAT AND MASS TRANSFER	BMT 521	3 0 0	3	V

A. Course Learning Outcomes:

CLO 1	Ability to do heat, mass and momentum transfer analysis.
CLO 2	Ability to analyze industrial problems along with appropriate boundary conditions.
CLO 3	Ability to develop steady and time dependent solutions along with their limitations

B. Syllabus:

Module I Conduction

One-dimensional steady-state conduction through homogeneous and composite plane walls, cylinders and spheres, critical thickness of insulation; heat transfer from fins of uniform cross section.

Module II Free convection

Introduction, Laminar Boundary Layer Equations of Free convection on a vertical flat plate, Integral method for Free convection on a vertical flat plate, Empirical correlations for Natural convection, Free convection under uniform heat flux, free convection caused by centrifugal forces.

Module III Forced convection Introduction, Parallel flow over a flat plate, flow over Cylinders and Spheres, Fully developed Laminar flow in circular Tubes, Flow of Liquid Metals, Combined free and forced convection

Module IV Radiation

Thermal radiation; Kirchoff's law; Planck's distribution law, Wien's displacement law; Stefan-Boltzmann's relation, Configuration factors; radiant interchange between black and grey surfaces; radiation shielding solar radiation.

Module V Heat exchangers

Combined heat transfer analysis; overall heat transfer co-efficient; types of heat exchangers; LMTD methods of heat exchanger design; simple heat exchanger calculations.

Module VI Mass transfer

Steady state molecular diffusion in fluids, Mass heat momentum transfer analysis, unsteady state diffusion, diffusion in solids, Ficks law of diffusion, interface mass transfer

C. Evaluation:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

D. Text & References:

- Incropera, F.P. and DeWitt, D.P. (2002). Fundamentals of Heat and Mass Transfer, John Willy & Sons, New York, NY.
- Nag, P.K. (2002). Heat and Mass Transfer, TMH.
- John R.Howell & Richrd O Buckius, Fundamentals of Engg. Thermodynamics, McGraw Hill International.
- Holman, J.P. (1997). Heat Transfer, 9th edition, McGraw-Hill.
- Mills, A.F. (1999). Basic Heat and Mass Transfer. Prentice-Hall.
- Thirumaleswar, M. (2006). Fundamentals of Heat and Mass Transfer, Pearson education.
- Ghoshdastidar, P.S. (2004). Heat Transfer. Oxford University Press.
- Arora, Domkundwar, S. and Domkundwar, A. (1988). A Course in Heat & Mass Transfer, Dhanpat Rai & Co.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
DESIGN OF MECHATRONICS SYSTEM LAB	BMT 522	0 0 2	2	5

A. Course Learning Outcomes:

CLO 1	To study various mechatronics drive system and its practical application .
CLO 2	To impart knowledge on virtual instrumentation and drive systems .
CLO 3	Optimize control systems for power drives

B. Syllabus:

List of Experiments:

1. Study of wind shield smart wiper.
2. Mini project: Develop a feedback control for a mechatronic application
3. Troubleshoot the issues with integration of systems
4. Experience model-based design of Mechatronics system.
5. Optimize the design of Mechatronics systems.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

PRACTICAL TRAINING (EVALUATION)

Course Code:
C:06

BMT 523

Methodology

gy

Practical training is based on the theoretical subjects studied by students. It can be arranged within the college or in any related industrial unit. The students are to learn various industrial, technical and administrative processes followed in the industry. In case of on-campus training the students will be given specific task of fabrication/assembly/testing/analysis. On completion of the practical training the students are to present a report covering various aspects learnt by them and give a presentation on same.

Examination Scheme:

Feedback from industry/work place	20
Training Report	40
Viva	15
Presentation	25
Total	100

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
ADVANCED MANUFACTURING PROCESS	BME 502	3 0 0	3	V

A. Course Learning Outcomes:

CLO 1	Investigate – Modern machines used in the field of mechanical engineering
CLO 2	Create –Fundamental physical phenomenon in advance machining and apply them to predict the outcome.
CLO 3	Apply – this knowledge to analyse the working of advance metal cutting operations
CLO 4	Develop – Ability to perform and conduct basic experiments and evaluate the results of the same to optimize the overall productivity

B. Syllabus:

Module I: Introduction

Basic shape of cutting tools, Function of different angles of cutting tools, tool geometry and Nomenclatures- ASA, ORS systems, Conversion of angles, Tool Materials.

Module II: Mechanism of chip formation

Fracture & yielding mechanism, Types of chips, Factors involved in chip formation analysis, shear plane in flat chips, chip formation in drilling and milling.

Module III: Mechanism of metal cutting

Force system during turning, merchant circle diagram, velocity relationship, stress in conventional shear plane, Energy of cutting process, Ernst& merchant angle relationship, Lee-Shafer relationship, measurement of forces, Heat generation and temperature distribution in metal cutting.

Module IV: Theory of Tool wears

Criteria of wear, machinability and tool life, Flank wear, Crater wear, Taylor's tool life equation, causes and mechanism of tool failure, cutting fluid, Economics of metal machining.

Module V: Design for sheet metal works

Press working Terminology, press operation, types of dies, clearance, cutting forces, methods of reducing cutting forces, minimum diameter of piercing, center of pressure, Drawing dies-blank diameter, drawing force.

Module VI: Jigs and Fixture design

Important considerations in jig and fixture design, Locating and clamping, principles for location purposes, principles for clamping purposes, design principles for jigs and fixtures.

C. Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination; Att: Attendance

D. Text & References:

Text:

- A Bhattacharya , “Metal cutting theory& practice”, C.B. Publication

References:

- Geoffrey Boothroyd, “Fundamentals of Metal Machining & Machine Tools”, Tata McGraw Hill Kogakusha Ltd.
- P.N. Rao, “Manufacturing Technology”, Tata McGraw Hill Publication Ltd.
- Dr. P.C. Pandey & C.K. Singh, “Production Engg. Sciences”, Standard Publisher. Distributors.
- Dr. B.J. Ranganath, “Metal Cutting & Tool Design” Vikas Publishing House Pvt. Ltd.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
Metal cutting and Tool design	BMT 506	3 0 0	3	5

A. Course Learning Outcomes:

CLO 1	Explain the ASA, ORS and NRS systems of tool geometry and derive their interrelationships
CLO 2	Develop the relations for chip reduction coefficient, shear angle, shear strain, forces, power, specific energy and temperatures associated with orthogonal cutting.
CLO 3	Develop shear angle relationships for natural and controlled contact cutting and stress strain relations in orthogonal cutting
CLO 4	Develop the relations for forces in multipoint machining and oblique cutting

A. Syllabus:

Module I:

Introduction

Basic shape of cutting tools, Function of different angles of cutting tools, tool geometry and Nomenclatures- ASA, ORS systems, Conversion of angles, Tool Materials.

Module II: Mechanism of chip

formation

Fracture & yielding mechanism, Types of chips, Factors involved in chip formation analysis, shear plane in flat chips, chip formation in drilling and milling.

Module III: Mechanism of metal cutting

Force system during turning, merchant circle diagram, velocity relationship, stress in conventional shear plane, Energy of cutting process, Ernst & merchant angle relationship, Lee-Shafer relationship, measurement of forces, Heat generation and temperature distribution in metal cutting.

Module IV: Theory of Tool wears

Criteria of wear, machinability and tool life, Flank wear, Crater wear, Taylor's tool life equation, causes and mechanism of tool failure, cutting fluid, Economics of metal machining.

Module V: Design for sheet metal works

Press working Terminology, press operation, types of dies, clearance, cutting forces, methods of reducing cutting forces, minimum diameter of piercing, center of pressure, Drawing dies-blank diameter, drawing force.

Module VI: Jigs and Fixture design

Important considerations in jig and fixture design, Locating and clamping, principles for location purposes, principles for clamping purposes, design principles for jigs and fixtures.

Evaluation

:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

Text:

- A Bhattacharya , “Metal cutting theory& practice”, C.B. Publication

References:

- Geoffrey Boothroyd, “Fundamentals of Metal Machining & Machine Tools”, Tata McGraw Hill Kogakusha Ltd.
- P.N. Rao, “Manufacturing Technology”, Tata McGraw Hill Publication Ltd.
- Dr. P.C. Pandey & C.K. Singh, “Production Engg. Sciences”, Standard Publisher. Distributors.
- Dr. B.J. Ranganath, “Metal Cutting & Tool Design” Vikas Publishing House Pvt. Ltd.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MANAGEMENT OF MANUFACTURING SYSTEMS	BMT 507	3 0 0	3	5

A. Course Learning Outcomes:

CLO 1	Classify the materials and Understand the basic properties that characterize the behavior of materials.
CLO 2	Understand the type of loadings/environment that materials should withstand and Select appropriate type of material for specific application
CLO 3	Offer different approaches to modify structure/microstructure in order to get desired properties

B. Syllabus:

Module I: Introduction

Production functions, Plant Organization: Principles of organization, Organization structure-line and staff Organization

Plant Location, Layout: Process layout product layout and combination layout – methods of layout, economics of layout.

Module II: Production Planning & Control

Types of products, demand, demand forecasting, marketing strategies, scheduling and control of scheduling, production control.

Module III: Work and method study

Definition and concepts, method study procedures, symbols, advantages, Flow process charts, Motion study, micro motion, SIMO charts, system concepts, classification, analysis techniques.

Module IV: Industrial maintenance

Types, organization for maintenance department, Breakdown and preventive maintenance.

Module V: Inventory control and replacement analysis

Introduction replacement policy and method adopted, EOQ.

Module VI: Management concepts

Development of management principles, scientific management, human relation aspects. Project Management – CPM and PERT.

Examination Scheme:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

Text & References:

Text:

- S.K. Sharma, “Industrial Engg. & Operation Management”, S.K. Kataria & Sons.
- Dr. Ravi Shankar, “Industrial Engg. & Management”, Galgotia Publications
- M. Mahajan, “Industrial Engg. & Production Management”, Dhanpat Rai & Co.
- J Moore, Manufacturing Management, Prentice Hall
- Buffa, Modern production and operations management, E.S. Wiley eastern.

References:

- Joseph S. Martinich, "Production & Operation Management", John Wiley & Sons.

EMBEDDED SYSTEMS

Course Code	L	T	P	Credit	Semester
MCA 234	2	1	-	3	II

Course Learning Outcomes:

1. To have knowledge about the basic working of a microcontroller system and its programming in assembly language.
2. To provide experience to integrate hardware and software for microcontroller applications systems.
3. Program ARM microcontroller to perform various tasks.
4. Understand the key concepts of embedded systems such as I/O, timers, interrupts and interaction with peripheral devices.

Module 1: INTRODUCTION

Introduction: Evolution of Computers, Technological Trends, Measuring performance Speed up, Computer organization: von Neumann Machine Architecture, Functional units and components, Program development tools, Instruction pipelining and parallel processing: Instruction pipeline, hazards, Data forwarding paths, RISC vs. CISC processors.

Module2: INTRODUCTION of EMBEDDED SYSTEM

Introduction of embeddes system, Processor: Embedded Processors in a System, Microprocessor, Microcontroller, Single Purpose Processors and Application specific system processors (ASSPs) in embedded systems, Embedded hardware units and devices

Module 3: INTERRUPTS HANDLER, EMBEDDED SOFTWARE

Interrupts handler, Embedded software, Final Machine Implement-able Software for a System, Coding of Software in Machine Codes, software in Processor Specific Assembly Language, Software in High Level Language, Program Models for Software Designing, Software for Concurrent Processing and Scheduling of Multiple Tasks and ISRs Using an RTOS, Software for the Device Drivers and Device Management using an Operating System, Software tools in designing of an Embedded System, Needed Software Tools in the Exemplary cases. Examples of Embedded System

Module 4: The Embedded Computing Platform

Embedded Computing Platform ,CPU Bus, Memory Devices, I/O Devices, Component Interfacing

Module 5: Real-Time Operating Systems

Inter Process Communication & Synchronization of Processes, task and threads, multiple processes in an application, multiple threads in an application, task and states, task and data clear cut distinction between functions, ISRs and Tasks by their Characteristics.

Module 6: CONCEPT OF SEMAPHORES

Concept of semaphores, Use of a Single Semaphore as an event signaling variable or notifying variable (event flag), Use of a Single Semaphore as resource key and in critical Section, Mutex, Use of Multiple Semaphores, Use of Mutex, Counting Semaphores, P and V semaphores shared data: Problem of Sharing Data by Multiple Tasks and Routines, Shared Data, Deadlock Situations, inter process Communication semaphores, Message Queues, Mailboxes, Pipes, Sockets, Remote Procedure Calls (RPCs).

Examination Scheme:

Components	C T	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MODELLING AND CONTROL OF MECHATRONICS SYSTEM	BMT 601	3 0 0	3	6

A. Course Learning Outcomes:

CLO 1	understand the evolving Mechatronics systems from their underlying physical principles and properties.
CLO 2	Develop an understanding of the purpose of control systems and their use
CLO 3	Be able to understand that a plant is given and a control system is to be designed to satisfy performance specifications

B. Syllabus:

MODULE 1 – Concepts of Systems and Modelling

Concept of systems – Fundamentals of Modelling and Simulation – Types of Modelling – Mathematical Modelling, Simulation and Validation - System Identification

MODULE 2 – Modelling Approaches

Model representations - block diagram, transfer function, state space representation - system identification techniques – linearization of nonlinear models

MODULE 3 – Modelling of physical systems

Development of mathematical models: mechanical, electrical, electromechanical, Thermal, Hydraulic and Pneumatic systems.

MODULE 4 – Simulation

Simulation-basics – types – hardware in loop simulations – time response parameters - time response of 1st and 2nd order systems - simulation of systems in software environment.

MODULE 5 - Basic control systems

Basic Elements of Control System – Open loop and Closed loop systems – Characteristics of on-off, P, PI, PD and PID Controllers – Modified PID Controller – Tuning of controllers.

MODULE 6: Analysis of systems

Stability analysis of the systems using Routh Hurwitz criterion and Root locus – Frequency domain analysis - Bode Plot – Polar Plot – Nyquist stability criterion

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination.

Text & References:

1. W Bolton, Mechatronics, Pearson Education, Fourth Edition, 2011

2. Siamak Najarian, Javad Dargahi, Ph.D, Goldis Darbemamieh, Siamak Hajizadeh Farkoush, *Mechatronics in Medicine: A Biomedical Engineering Approach*, 2012 McGraw-Hill Education, ISBN: 9780071768962

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
SENSORS & MOTION CONTROL	BMT 603	3 0 0	3	6

A. Course Learning Outcomes:

CLO 1	Analyze advanced engineering problems in the fields of sensors, data acquisition and controls.
CLO 2	Apply advanced techniques and tools of sensing systems to solve multi-disciplinary challenges in industry and society
CLO 3	To exhibit independent, and collaborative research with strategic planning, while demonstrating the professional and ethical responsibilities of the engineering profession.

B. Syllabus:

MODULE 1- INTRODUCTION TO SENSORS

Classification of transducers, sensor characteristics, calibration.

MODULE 2 – SENSORS FOR FORCE, PRESSURE & STRAIN APPLICATIONS

Types, characteristics, measurement techniques and applications – Force, Pressure and Strain Sensors.

MODULE 3 – SENSORS FOR POSITION, VELOCITY & TEMPERATURE APPLICATIONS

Types, characteristics, measurement techniques and applications – Position, Velocity & Temperature Sensors.

MODULE 4 – MOTION CONTROL

Sensors for motion control, Pulse Width Modulation for DC motors, Servo Systems – Velocity & Position control

MODULE 5 – APPLICATIONS

Case Study – Industrial sensor data acquisition and motion control systems

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

Text:

- W Bolton, Mechatronics, Pearson Education, Fourth Edition, 2011.
- David G. Alciatore & Michael B Hstand., Introduction to Mechatronics and Measurement systems, Tata McGraw Hill, 2003.

References:

- Woo-Kyung Choi, Hong-Tae Jeon, Seong-Joo Kim, “Multiple Sensor Fusion and Motion Control of Snake Robot Based on Soft-Computing”, INTECH Open Access Publisher, 2007

- Dan Nesculescu, Mechatronics, Pearson Education Pvt. Ltd, 2002.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
AUTOMOTIVE ENGINEERING	BME 604	3 0 0	3	VI

A. Course Learning Outcomes:

CLO 1	Identify the different parts of the automobile
CLO 2	Explain the working of various parts like engine, transmission, clutch, brakes
CLO 3	Describe how the steering and the suspension systems operate.
CLO 4	Understand the environmental implications of automobile emissions
CLO 5	Develop a strong base for understanding future developments in the automobile industry

B. Syllabus:

Module I

Introduction, Components of an automobile, basic engine terminology, engine cycles, working of an IC engine. Basic engine design considerations, constructional details of C.I. and S.I. engines. crank shafts, connecting rod, piston, valves, cams, manifolds, air cleaners, mufflers, radiators, and oil filters.

Module II: Transmission System

Description and working of manually operated gearboxes like sliding mesh, constant mesh, synchromesh and epicyclic; hydraulic torque convertor and its construction working and performance, semi-automatic and fully automatic transmission, Hydramatic transmission, analysis of differentials, live axles, construction working and requirements of overdrive.

Module III: Steering System

Introduction, Front axle, wheel alignment, Steering geometry, steering mechanisms, Ackerman steering, center point steering, power steering.

Module IV: Suspension

Objective, requirement, function, types Shock absorbers, Independent suspension, Stabilizer, air suspension, Hydroelastic suspension, Hydragas interconnected suspension.

Module V

Principle, braking requirements, brake efficiency, fading of brakes, types of brakes, bleeding of brakes, brake fluid.

C. Examination:

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

D. Text & References:

- Kirpal Singh, “Automobile Engg.”, Vol. I & II, Standard Publishers, 2004
- N.K. Giri, “Automotive Mechanics”, Khanna Publishers
- Narang G.B.S., “Automobile Engg.”, Khanna Publishers
- Srinivasan, “Automotive Engines”, Tata McGraw Hill
- K.K. Jain & R.B. Asthana, “Automobile Engineering”, Tata McGraw Hill
- James D. Halderman and Chase D. Mitchell Jr., Automotive Engines- Theory and Servicing, Pearson Education, 2007

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MODELLING AND CONTROL OF MECHATRONICS SYSTEM LAB	BMT 621	0 0 2	3	6

A. Course Learning Outcomes:

CLO 1	To Run mat lab programming for vehicle control system.
CLO 2	To analyze modeling of braking system through programming
CLO 3	To understand control system for servo and stepper motor .

B. Syllabus:

List of Experiments:

1. Modelling and simulation of vehicle passive suspension system using MATLAB/Simulink
2. Modeling and simulation of PWM controlled DC motor using MATLAB/Simulink
3. Modeling and simulation of Hydraulic braking using MATLAB/Simulink.
4. Tuning of PID controller for given system using Simulink.
5. Modelling and control of Anti-lock braking system using MATLAB/ Simulink.
6. Designing a speed control system for a DC Motor.
7. PID Controller design and performance evaluation for Multi-Process Liquid tank system.
8. Performance evaluation of control system for Servo motor system.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
ELECTRICAL MACHINES LAB	BMT 622	0 0 2	1	6

A. Course Learning Outcomes:

CLO 1	Understand 3-phase to 2-phase transformation using the Scott connection and determine the different losses of the transformers.
CLO 2	To Implement the speed control techniques for a separately excited DC motor
CLO 3	To Determine the performance characteristics of DC shunt and DC compound generators by conducting load tests.
CLO 4	Determine the performance of a single phase transformer by conducting Open Circuit (O.C) and Short Circuit (SC) tests and Sumpner's test.

B. Syllabus:

Course Contents:

S. NO.	NAME OF THE EXPERIMENTS
1.	Speed Control of DC Shunt Motor
2.	To obtain magnetization characteristics of 1) Separately excited DC Generator 2) Shunt Generator
3.	To obtain the load characteristics 1) DC Shunt Motor 2) Cumulative Compound generator
4.	To conduct Swinburne Test on a DC. Shunt Motor and hence obtain its efficiency at full load.
5.	To perform No Load Test and blocked rotor test on a three phase Induction motor and hence determine its equivalent circuit parameters.
6.	To perform load test on a three phase Induction Motor and obtain its various performance characteristics.
7.	Retardation Test on a three phase induction motor and calculate its moment of inertia.
8.	To perform No Load and Blocked Rotor Test on a single phase Induction motor and hence determine its equivalent circuit parameters.
9.	To perform open circuit and short circuit test on a three phase alternator and hence determine its voltage regulation by synchronous Impedance Method.
10.	To obtain V curves of a three phase synchronous motor at no load.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
Sensor and Motion Control Lab	BMT 623	0 0 2	1	6

A. Course Learning Outcomes:

CLO 1	Set up programming strategies and select proper mnemonics and run their program on the training boards.
CLO 2	Develop testing and experimental procedures on Microprocessor and Microcontroller analyze their operation under different cases.
CLO 3	Prepare professional quality textual and computational results, incorporating accepted data analysis and synthesis methods, simulation software, and word-processing tools.
CLO 4	Identify relevant information to supplement to the Microprocessor and Microcontroller course.

B. Syllabus:

Course Contents:

MODULE 1 –SENSORS

1. Familiarization of various sensors
2. Sensor behaviour, calibration
3. Measurement of force, pressure and strain
4. Measurement of position, velocity and temperature

MODULE 2 – MOTION CONTROL

1. Conveyor System – Uni-axial , Dual-axial control applications
2. Material Elevator - Vertical material handling application
3. Linear Operation : X-Y Table , Pushing applications
4. Rotating Operation : Indexing table /Positioning applications
5. Feeding : Feeding application like cut to length application or Labelling Application
6. Closed Loop Control of Pressure, Temperature
7. Integration Options

MATLAB ASSIGNMENTS

1. Visualize Sensor Coverage, Detections, and Tracks
2. Optical Sensor Image Generation
3. Collision Detection Using Line Sensor
4. Measure Strain using an Analog Bridge Sensor
5. Track and Follow an Object
6. Tuning of a Digital Motion Control System
7. Stepper Motor with Control
8. Power Window Control Project
9. Control Stepper Motor using Digital Outputs

Examination Scheme:

IA	EE
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A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

AUTOMOTIVE ENGINEERING LAB

Course Code: BME 624

P:02 C:01

Course Contents: List of Experiments:

1. Drawing Valve Timing Diagram
2. Determination of Firing Order of engine
3. Specification of engine
4. Study of different parts of engine
5. Study of Clutch
6. Study of Hydraulic Brake System
7. Study of Carburetor
8. Study of various parts of Auxiliary systems
9. Study of Wheel
10. Study of emission system
11. Study of steering system

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
AERIAL ROBOTS	BMT 607	3 0 0	3	6

A. Course Learning Outcomes:

CLO 1	To synthesize autopilot for the control of unmanned aerial vehicles
CLO 2	To derive a mathematical model for aerial robot dynamics and design a controllable rotorcraft aerial vehicle
CLO 3	To analyze the dynamics of active payload

B. Syllabus:

MODULE 1 – INTRODUCTION.

Fundamentals of Aerial Robot – Classification – Applications – Design considerations

MODULE 2 – SENSORS AND ACTUATORS

Sensors for Aerial robots – Sensor Characteristics – Inertial Sensors – Classification of Sensors – Electric Actuators – DC Motors – Servo motor – Encoders – Motor Drives.

MODULE 3 – MODELING AND DYNAMICS

Frame Rotations and Representations – Dynamics of a Multirotor Micro Aerial Vehicle – Dynamics of a Fixed-Wing Unmanned Aerial Vehicle

MODULE 4 – FLIGHT CONTROLS AND MOTION PLANNING

PID Control – LQR Control – Linear Model Predictive Control – An Autopilot Solution

MODULE 5 – CASE STUDY OF AERIAL ROBOTS

Holonomic Vehicle Boundary Value Solver – Dubins Airplane model Boundary Value Solver – Collisionfree Navigation – Structural Inspection Path Planning

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

- Kenzo Nonami, Autonomous Flying Robots: Unmanned Aerial Vehicles and Micro Aerial Vehicles, Springer, 2010
- Yasmina Bestaoui Sebbane, Planning and Decision Making for Aerial Robots, Springer, 2014

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
INDUSTRIAL INSTRUMENTATION	BMT 608	3 0 0	3	6

A. Course Learning Outcomes:

CLO 1	To illustrate the different methods for the measurement of length and angle
CLO 2	To explicate the construction and working of various industrial devices used to measure temperature, level, vibration, viscosity and humidity
CLO 3	To analyze, formulate and select suitable sensor for the given industrial applications

B. Syllabus:

MODULE 1 – INTRODUCTION.

Introduction to automation tools – PLC, SCADA, DCS, Hybrid DCS-PLC

MODULE 2 – PROGRAMMABLE LOGIC CONTROLLERS

Hardware, selection, I/O devices and programming

MODULE 3 – AUTOMATION SPECIFICATIONS

Functional design specifications for automation tool, Development of user requirement specifications.

MODULE 4 – DISTRIBUTED CONTROL SYSTEM

Architecture, specifications, sensor interfacing

MODULE 5 – APPLICATIONS

Case Study – Industrial process monitoring and automation

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

- William C Dunn, “Fundamentals of Industrial Instrumentation and Process Control”, McGraw Hill, 2005.
- Donald P. Eckman, “Industrial Instrumentation”, CBS Publishers & Distributors, 2009

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
INDUSTRIAL ELECTRONICS	BMT 609	3 0 0	3	6

A. Course Learning Outcomes:

CLO 1	To Analyze the steady state and small signal AC response of simple electronic circuits containing diodes, transistors, and operational amplifiers
CLO 2	To Design and analyze circuits containing digital components and microprocessors.
CLO 3	To Analyze and evaluate performance parameters of AC and DC motors.

B. Syllabus:

MODULE 1 – SEMICONDUCTOR DEVICES AND APPLICATIONS

Semiconductor materials- intrinsic and extrinsic types, Ideal Diode, PN junction diode, Zener diode and applications, Rectifier Circuits, Clipping and Clamping circuits, Bipolar Junction Transistors (BJTs)- Physical structure and operation modes, Active region operation of transistor, Transistor as an amplifier, Transistor as a switch: cut-off and saturation modes, Basic BJT amplifier configuration: common emitter, common base and common collector amplifiers.

MODULE 2 – OPERATIONAL AMPLIFIER AND ITS APPLICATIONS

Basic information on Op-Amps-Ideal operational amplifier- General operational amplifier stages and internal block diagram of IC 741-Characteristics-open and closed loop configurations, Practical op amp circuits- inverting amplifier, non-inverting amplifier, weighted summer, integrator, differentiator. Other applications of op-amps: instrumentation amplifier, active filters, Schmitt triggers, comparators.

MODULE 3 – DIGITAL SYSTEMS AND MICROPROCESSORS

DACs and ADCs, memory devices (SRAM, DRAM, Flash, PLD's, ROM), microcomputer, microprocessor architecture (8085), digital communication standards.

MODULE 4 – POWER SEMI-CONDUCTOR DEVICES

Study of switching devices, - Power Diodes, Power transistors, Power MOSFET, DIAC TRIAC, IGBT -static characteristics and principle of operation, SCRs: Static and dynamic characteristics – two transistor analogy – gate characteristics.

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
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Weightage (%)	30	5	15	50
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MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

- Ramakant. A. Geakwad, Linear integrated circuits, 3rd edition, Prentice – Hall of India, New Delhi, 2001
- Microprocessor Architecture, Programming & Applications with 8085 4th edition Ramesh Gaonkar, 2009.
- P.S.Bimbra “Power Electronics” Khanna Publishers, third Edition 2003.

Course Name	Course Code	L T P	Credit	Semester
HYDRAULICS & PNEUMATICS	BMT-701	3 0 0	3	VII

Amity School of Engineering and Technology (ASET)

A. Course Learning Outcomes:

CLO 1	Understand hazards of hydraulic and pneumatic circuits and be able to work safely.
CLO 2	Understand the concepts of fluid statics and dynamics as applied to commercial and industrial control
CLO 3	Recognize standard schematic symbols for common fluid power components.

Course Contents

MODULE 1 – INTRODUCTION TO FLUID POWER

Introduction to fluid power, Advantages of fluid power, Application of fluid power system. Types of fluid power systems, Compressibility and incompressibility of fluids–Stagnation states, Mach waves and Mach cone – Effect of Mach number on compressibility – Isentropic flow through variable ducts – Nozzle and Diffusers. Ideal Gas equations - Applications of Pascal's Law – Laminar and Turbulent flow– Reynolds number – Darcy's equation – Losses in fluid power system.

MODULE 2 – SOURCE OF FLUID POWER

Basics of Hydraulics –Properties of hydraulic fluids –Sources of Hydraulic Power-Pump classifications – Construction and working of Pumps – Pump performance – comparison of pumps. An overview of Basic hydraulic system. Basics of Pneumatics - Properties of compressed air- Sources of Pneumatic Power- Types of compressor-Construction and working of compressor - Performance of compressor An overview of Basic pneumatic system- Comparison of pump and compressor – Need for compressed air conditioning – pneumatic dryer – Filter, regulator and lubricator – fluid power accumulators – purpose and types . Distribution of Fluid power and safety measures.

MODULE 3 – COMPONENTS OF HYDRAULIC AND PNEUMATIC SYSTEMS

Fluid power actuators - selection of actuators – pneumatic and hydraulic actuators – types and ISO symbols – linear and rotary. Construction and working of double acting cylinder – special actuators – rodless, tandem, impact, duplex and telescopic cylinders. – types of actuating

mechanism. sensors – limit switches, reed switches and pressure switches Cushioning mechanism in pneumatic and hydraulic cylinders . Control valves – types of valves . Construction and working of control valves - 3/2 , 4/2 , 5/3 and 4/3 Direction control valve, flow control valve, classification and working of pressure control valves ,sequencing and relief valve.
MODULE 4 – DESIGN OF HYDRAULIC AND PNEUMATIC CIRCUITS

Design of simple hydraulic and pneumatic circuits-Speed and force calculation of linear actuator. Design considerations of pneumatic and hydraulic circuits . meter in, meter out and counter balancing circuits. Design of multi cylinder pneumatic and hydraulic sequencing circuit . Fluidics–Introduction to fluidic devices, simple circuits . Design of simple Electro pneumatic and Electro hydraulic circuits Design of Multi cylinder electro pneumatic and electro hydraulic circuits – ladder diagram. Conflict signals – identification of conflict signal . Cascading method – step counter method , Karnaugh-Veitch method and combinational circuit design.

MODULE 5 - SERVO MECHANISM AND FLEXIBLE MANUFACTURING SYSTEM

Servo systems – Hydro Mechanical servo systems, Electro hydraulic servo systems and proportional valves. Pneumatic PID circuits. PLC applications in fluid power control, ladder diagrams, Timers and counters .Low Cost Automation using pneumatics and Flexible manufacturing system. Fluid power circuits; failure and troubleshooting

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

1. Anthony Esposito, Fluid Power with application, Prentice Hall, 2013.
2. Majumdar S.R., Oil Hydraulics, Tata McGraw-Hill, New Delhi 2009
3. Anderson, J.D., "Modern Compressible flow", 3rd Edition, McGraw Hill, 2003

Amity School of Engineering and Technology (ASET)

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Course Name	Course Code	L T P	Credit	Semester
Computer-Aided Manufacturing	BMT-702	3 0 0	3	VII

Learning Outcomes:

CLO 1	It can cognize CNC turn bench's code systems and CNC turn bench's general structure.
CLO 2	Cognizing main parts of turnery, metal fillings' calculation and mathematical and computer processes of CNC turn bench's programming.
CLO 3	Cognize main concepts of turning(turn bench pen devices, cutting geomertry, swarf, warming, abrasion.etc.)
CLO 4	Makes preparations about CNC turn bench's programming and for all CNC turn benches' shared codes' programming.

B. Syllabus:

Course Contents:

Module I

Introduction to Numerical control. Programmed automation. Nomenclature, type and features of NC machines tools. Axes designation. Point to point, straight and continuous control systems.

Module II

Machining centre and Turning centre, Automatic tool changer, Machine Tool beds and automated pallet changers.

Module III

Machine Control Unit, Actuation Systems, open and close loop systems, transducers for NC Systems, revolves, encoders and inductosyn.

Module IV

Manual Part Programming: Processes planning, G&M codes. Interpolation Cycles. Tool compensation, Subroutines, Introduction to Computer Aided Part Programming.

Module V

Tooling and tool presetting. Computer Aided inspection - Contact Inspection (Coordinate Measuring Machine) & Non Contact Inspection.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	10	15	20	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination; Att: Attendance

Text & References:

Text:

- Mikell P. Groover, "Automation, Production Systems and Computer-Integrated Manufacturing", 2nd Edition, Pentice Hall, 2001.
- Rao, Kundra & Tiwari, "Computer aided Manufacturing" Tata McGraw Hill, 2007.
- Numerical Control: by Koren, Khanna Publisher.

References:

- Mikell P. Groover, Emory W. Zimmers, "CAD/CAM", Pearson Education, 2006.
- P.N. Rao, "CAD/CAM Principles and Applications", Tata McGraw Hill, 2006

Course Name	Course Code	L T P	Credit	Semester
HYDRAULICS & PNEUMATICS	BMT-701	3 0 0	3	VII

Amity School of Engineering and Technology (ASET)

A. Course Learning Outcomes:

CLO 1	Understand hazards of hydraulic and pneumatic circuits and be able to work safely.
CLO 2	Understand the concepts of fluid statics and dynamics as applied to commercial and industrial control
CLO 3	Recognize standard schematic symbols for common fluid power components.

Course Contents

MODULE 1 – INTRODUCTION TO FLUID POWER

Introduction to fluid power, Advantages of fluid power, Application of fluid power system. Types of fluid power systems, Compressibility and incompressibility of fluids–Stagnation states, Mach waves and Mach cone – Effect of Mach number on compressibility – Isentropic flow through variable ducts – Nozzle and Diffusers. Ideal Gas equations - Applications of Pascal’s Law – Laminar and Turbulent flow– Reynolds number – Darcy’s equation – Losses in fluid power system.

MODULE 2 – SOURCE OF FLUID POWER

Basics of Hydraulics –Properties of hydraulic fluids –Sources of Hydraulic Power-Pump classifications – Construction and working of Pumps – Pump performance – comparison of pumps. An overview of Basic hydraulic system. Basics of Pneumatics - Properties of compressed air- Sources of Pneumatic Power- Types of compressor-Construction and working of compressor - Performance of compressor An overview of Basic pneumatic system- Comparison of pump and compressor – Need for compressed air conditioning – pneumatic dryer – Filter, regulator and lubricator – fluid power accumulators – purpose and types . Distribution of Fluid power and safety measures.

MODULE 3 – COMPONENTS OF HYDRAULIC AND PNEUMATIC SYSTEMS

Fluid power actuators - selection of actuators – pneumatic and hydraulic actuators – types and ISO symbols – linear and rotary. Construction and working of double acting cylinder – special actuators – rodless, tandem, impact, duplex and telescopic cylinders. – types of actuating

mechanism. sensors – limit switches, reed switches and pressure switches Cushioning mechanism in pneumatic and hydraulic cylinders . Control valves – types of valves . Construction and working of control valves - 3/2 , 4/2 , 5/3 and 4/3 Direction control valve, flow control valve, classification and working of pressure control valves ,sequencing and relief valve.
MODULE 4 – DESIGN OF HYDRAULIC AND PNEUMATIC CIRCUITS

Design of simple hydraulic and pneumatic circuits-Speed and force calculation of linear actuator. Design considerations of pneumatic and hydraulic circuits . meter in, meter out and counter balancing circuits. Design of multi cylinder pneumatic and hydraulic sequencing circuit . Fluidics–Introduction to fluidic devices, simple circuits . Design of simple Electro pneumatic and Electro hydraulic circuits Design of Multi cylinder electro pneumatic and electro hydraulic circuits – ladder diagram. Conflict signals – identification of conflict signal . Cascading method – step counter method , Karnaugh-Veitch method and combinational circuit design.

MODULE 5 - SERVO MECHANISM AND FLEXIBLE MANUFACTURING SYSTEM

Servo systems – Hydro Mechanical servo systems, Electro hydraulic servo systems and proportional valves. Pneumatic PID circuits. PLC applications in fluid power control, ladder diagrams, Timers and counters .Low Cost Automation using pneumatics and Flexible manufacturing system. Fluid power circuits; failure and troubleshooting

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

1. Anthony Esposito, Fluid Power with application, Prentice Hall, 2013.
2. Majumdar S.R., Oil Hydraulics, Tata McGraw-Hill, New Delhi 2009
3. Anderson, J.D., "Modern Compressible flow", 3rd Edition, McGraw Hill, 2003

COMPUTER INTEGRATED MANUFACTURING LAB

Course Code: BME 722

P: 02, C: 01

Course Contents:

1. To conduct briefly study into various aspects of CNC machines.
2. To Study the preparatory and miscellaneous function of CNC codes.
3. Study exercise on Milling operations:
 - Circular Pocketing
 - Rectangular pocketing
 - Peck Drilling cycle
 - Boring operation
 - End drilling operation
4. Study exercise on Turning operations:
 - Simple facing
 - Simple turning operation
 - Step turning operation Circular Pocketing
 - Rectangular pocketing
 - Peek Drilling cycle
 - Boring operation
 - End drilling operation
5. Study the work holding and tool holding devices in the CNC lathe and machining centre and draw up their specifications and capacities.

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	20	20	5	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

Course Name	Course Code	LTP	Credit	Semester
INDUSTRIAL TRAINING EVALUATION	BTB 750	3:0:0	3	7

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To enable students, acquire industrial skills
CLO 2	Make students understand biotechnological processes including Bioprocess engineering, downstream processing and fermentation technology in industry

Methodology

The students will go to various research institutes/R&D Labs of industries to learn various biotechnological tools and procedures and their utility in commercial applications. The aim of this training is to train the students in the various industrial/Research aspects of commercialization of biotechnological systems.

The students will be supervised by the internal faculty during the tenure of training.

The students shall submit a dissertation on the training undertaken which shall be evaluated by the concerned internal faculty. The Viva Voce shall then be conducted by an external Examiner.

Examination Scheme:

Dissertation: 50

Viva Voce: 50

Total: 100

SEMINAR/MINOR PROJECT STAGE-I

Course Code: BME 760

C:03

Methodology:

Topics of project are to be based on the latest trends, verifying engineering concepts /principle and should involve elementary research work. For that, students need to select their project title and basic requirements to accomplish their project. The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem. At last, the students have to submit a report and give presentation the methodology used to accomplish their project.

Examination Scheme:

Synopsis Report	50
Viva	25
Synopsis Presentation	25
Total	100

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
Automation in Industries	BMT-705	3 0 0	3	VII

A. Course Learning Outcomes:

CLO 1	verify automation / control systems using good design practice;
CLO 2	design, install and maintain automation and control systems;
CLO 3	work at a high level in industry with automation and control systems;
CLO 4	employ high-level PLC control systems in the computer integration of a manufacturing process;
CLO 5	implement the skills required for automation, control and monitoring of industrial processes;

B. Syllabus:

Module 01

Introduction to Automation: Definition and fundamentals of automation, reasons for Automating, basic elements of an automated system: Power, Program and control system
Advanced automation functions: safety, maintenance & repair diagnosis, error detection and recovery, **Levels of automation** Automation principles and strategies: USA principle, ten strategies of automation and production system, automation migration strategy

Module 02

Mechanization and Automation: Mechanization and automation, product cycle, hard Vs flexible automation, Capital- intensive Vs low cost automation, Types of systems-mechanical, electrical, hydraulic, pneumatic and hybrid systems, Automation using CAMS, Geneva mechanisms, gears etc., Assembly line Automation: automated assembly systems, transfer systems, vibratory bowl feeders, non-vibratory feeders, part orienting, feed track, part placing & part escapement systems Introduction to Material storage/ handling and transport systems, and its automation using AS/RS, AGVS and conveyors etc.

Module 03:

Pneumatics and hydraulics: Hydraulic and pneumatic devices-Different types of valves, Actuators and auxiliary elements in Pneumatics & hydraulics , their applications and use of their ISO symbols Synthesis and design of circuits (up to 3 cylinders)-pneumatic, electro pneumatics and hydraulics Design of Electro-Pneumatic Circuits using single solenoid and double solenoid valves; with and without grouping

Module 04:

Sensors & Actuators **Sensors:** Selection of sensors (Displacement, temperature, acceleration, force /pressure) based on static and dynamic characteristics, Interfacing: Concept of interfacing, bit accuracy and sampling speed, amplifying electronics, and

microcontroller, Actuators: Principle and selection of mechano-electrical actuators (1) DC motors (2) Stepper Motors (3) Solenoid Actuators (4) Servo Motors (5) BLDC

Module 05:

Industrial control systems: Process industries versus discrete manufacturing industries, Continuous versus discrete control, Computer process control, Forms of computer process control. Discrete control using PLC- discrete process control, Programmable logic controller, its architecture, ladder logic, Ladder Logic, Programming for different types of logic gates, Latching, Timers, Counter, Practical Examples of Ladder Programming

Module 06:

Robots and their applications: Introduction to robots, Types, Classifications, Selection of robots, Robot Degrees of freedom, Robot configuration, Accuracy and repeatability, Specification of a robot, Robot feedback controls: Point to point control and Continuous path control, Control system for robot joint, Adaptive control, Drives and transmission systems, End effectors, Industrial robot applications of robots

C. Evaluation:-

Components	Internal Assessment	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

D. Text & References:

Text:

- Stamatios Manesis, George Nikolakopoulos, Introduction to Industrial Automation, CRC Press, 2018

References:

- Yusuf Altintas, Manufacturing Automation, Metal Cutting Mechanics, Machine Tool Vibrations, and CNC Design, Cambridge University Press, 2012
- A.K. Gupta, S. K. Arora, Industrial automation and robotics, university science press, 2013



Course Name	Course Code	LTP	Credit	Semester
MARKETING MANAGEMENT	MBA104	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Develop understanding of core concepts of marketing and the role of marketing in business and society.
CLO 2	Ability to analyze marketing problems and provide solutions based on a critical examination of marketing information.
CLO 3	Critically analyse and apply marketing strategies based on product, price, place and promotion objectives, under ethical consideration of different market situations.
CLO 4	Develop an integrated marketing communications plan, which includes promotional strategies, unique marketing mixes and selling propositions for specific product offerings.
CLO 5	Develop the ability to collect, process, and analyze consumer data to make informed marketing decisions

B. SYLLABUS

Module I: Introduction

Nature and Scope of Marketing; Core Marketing Concepts; Evolution of modern marketing concept; Modern marketing concepts; Marketing Mix; emerging trends in marketing, Environmental Scanning

Module II: Product and Pricing Decisions

Product - concept and classification; Major product decisions; New product development; Product life cycle – concept and appropriate strategies adopted at different stages, Pricing policies and strategies.

Module III: Distribution Decisions

Channels of distribution – concept and importance; Role of Channel intermediaries and their functions; Channel management; Distribution logistics – concept, importance and major logistics decisions; Channel integration and systems

Module IV: Differentiation Segmentation Targeting and Positioning

Differentiation, Market Segmentation, Targeting and Positioning: Bases for segmenting a consumer market; Levels of market segmentation; Factors influencing selection of market segments; Criteria for effective market segmentation; Target market selection and strategies; Positioning – concept, bases and process

Module V: Consumer Behavior

Consumer vs. business buying behavior; Consumer buying decision process and influences

Module VI: Integrated Marketing Communication

Integrated Marketing Communication – Concept; Communication process and promotion; determining promotion mix; Factors influencing promotion mix; Ethical issues in promotion decisions.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Kotler, P., Keller, K. L., Koshy, A. & Jha, M. (2013), Marketing Management– A South Asian Perspective, 14th Ed, Pearson India
- Lamb, C. W., Hair, J. F., & McDaniel, C. (2015). Mktg, 8th Ed, Cengage Learning.
- Etzel, M. J., Walker, B. J., Staton, W. J., & Pandit, A. (2008). Marketing Concepts and Cases, 13th Ed, Tata McGraw Hill (Special Indian Edition).
- Czinkota, M. (2010). Marketing Management, 10th Ed, Cengage Learning.
- Kazmi, S. H. H. (2007). Marketing Management –Textand Cases, 1st Ed, Excel Books.
- Kumar, A., & Meenakshi, N. (2010). Marketing Management, 2nd Ed, Vikas Publishing House.
- Zikmund, W. G., & D'Amico, M. (1998). Marketing: Creating and Keeping Customers in an Ecommerce World, 6th Ed, South-Western College Publication

Course Name	Course Code	L T P	Credit	Semester
Electric & Hybrid Vehicles	BMT-707	3 0 1	3	VII

Amity School of Engineering and Technology (ASET)

A. Course Learning Outcomes:

CLO 1	Analyze various electric drives suitable for hybrid electric vehicles.
CLO 2	Discuss different energy storage technologies used for hybrid electric vehicles and their control.
CLO 3	Demonstrate different configurations of electric vehicles and its components, hybrid vehicle configuration by different techniques, sizing of components and design optimization and energy management.
CLO 4	Explain plug – in hybrid electric vehicle architecture, design and component sizing and the power electronics devices used in hybrid electric vehicles.
CLO 5	Explain the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamentals.

B.Syllabus:

Module I - Introduction

Introduction to Hybrid Electric Vehicles: History of hybrid and electric vehicles, social and environmental importance of hybrid and electric vehicles, impact of modern drive-trains on energy supplies. Conventional Vehicles: Basics of vehicle performance, vehicle power source characterization, transmission characteristics.

Module II -Hybrid and Electric Drive-trains

Hybrid Electric Drive-trains: Basic concept of hybrid traction, introduction to various hybrid drive-train topologies, power flow control in hybrid drive-train topologies, fuel efficiency analysis. Electric Drive-trains: Basic concept of electric traction, introduction to various electric drive-train topologies, power flow control in electric drive-train topologies, fuel efficiency analysis.

Module III-Propulsion System

Introduction to electric components used in hybrid and electric vehicles, Configuration and control of DC Motor drives, Configuration and control of Induction Motor drives, configuration and control of Permanent Magnet Motor drives, Configuration and control of Switch Reluctance Motor drives, drive system efficiency.

Module IV- Energy Storage System

Introduction to Energy Storage Requirements in Hybrid and Electric Vehicles, Battery based energy storage and its analysis, Fuel Cell based energy storage and its analysis, Super Capacitor based energy storage and its analysis, Flywheel based energy storage and its analysis, Hybridization of different energy storage devices. .

Module V- Testing of Electric Vehicles

Homologation & its Types, Regulations overview (EEC, ECE, FMVSS, AIS, CMVR), Type approval Scheme. Types of test tracks, Hardware in The Loop (HIL) concepts for EV/HEVs. static testing of vehicle, dynamics testing of vehicle, vehicle component testing.

C.Evaluation:

Components	CT	Attendance	Assignment/ Project/Seminar/Quiz	EE
Weightage (%)	15	5	30	50

A. Text:

- Mehrdad Ehsani, Yimin Gao, Stefano Longo and Kmbiz Ebrahimi, “Modern Electric, Hybrid Electric, and Fuel Cell Vehicles”, CRC Press, 3rd edition (2019)
 - A.K. Babu, “Electric & Hybrid Vehicles”, Khanna Publishing, 1st edition (2019).
 - Tom Denton, “Electric and Hybrid Vehicles”, Routledge; 1st edition (2016).
- ARAI Standards for Electric Vehicles (<https://www.araiindia.com/downloads>)

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
MECHATRONICS SYSTEM APPLICATIONS	BMT-708	3 0 0	3	VII

Course Learning Outcomes:

CLO 1	Identification of key elements of mechatronics system and its representation in terms of block diagram
CLO 2	Understanding the concept of signal processing and use of interfacing systems such as ADC, DAC, digital I/O
CLO 3	Interfacing of Sensors, Actuators using appropriate DAQ micro-controller
CLO 4	Time and Frequency domain analysis of system model (for control application)
CLO 5	-PID control implementation on real time systems

Course Contents

MODULE 1 – INTRODUCTION

Introduction to basics mechatronics components - Sensors, Actuators, Micro-controllers, PLC's.

MODULE 2 – BIOMIMICRY USING MECHATRONICS

Biomimicry – Introduction, Concept, Advantages. Bio-Inspired Robots – Mechanisms, Controls, Actuators. Case Studies - Wall-Climbing Caterpillar Robot, Hexapedal robot inspired by cockroach locomotion.

MODULE 3 – MEDICAL APPLICATIONS

Introduction to mechatronics for medical applications, Importance of Mechatronics in Medical Applications, Applications of Mechatronics in Medicine - Robotics in Medicine, Smart Instruments and Probes. Case Studies - Handheld Snake-Like Robots, 3D Printed Skull.

MODULE 4 – SAFETY, SECURITY AND DEFENCE APPLICATIONS

Industrial safety systems, Smart security systems, Mechatronics in defence, Artificial Intelligence in security systems. Case Studies: Cobots (Collaborative Robots), Smart Doors, Heat-seeking missiles.

MODULE 5 - MANUFACTURING APPLICATIONS

Introduction to manufacturing systems, Retrofitting, CNC machines, Rapid Prototyping, Industrial Robots. Case Studies – Laser cutting, Quality inspecting robots.

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination.

Text & References:

1. W Bolton, Mechatronics, Pearson Education, Fourth Edition, 2011
2. Siamak Najarian, Javad Dargahi, Ph.D, Goldis Darbemamieh, Siamak Hajizadeh Farkoush, Mechatronics in Medicine: A Biomedical Engineering Approach, 2012 McGraw-Hill Education, ISBN: 9780071768962

Amity School of Engineering and Technology (ASET)

A. Course Learning Outcomes:

Course Name	Course Code	L T P	Credit	Semester
ROBOTIC PROCESS AUTOMATION	BMT-801	3 0 0	3	VIII

CLO 1	Describe RPA, where it can be applied and how it's implemented.
CLO 2	Describe the different types of variables, Control Flow and data manipulation techniques
CLO 3	Identify and understand Image, Text and Data Tables Automation.
CLO 4	Describe how to handle the User Events and various types of Exceptions and strategies.
CLO 5	Understand the Deployment of the Robot and to maintain the connection.

Module 1 Robotic Process Automation (RPA) Foundation: Overview of RPA, Development of RPA, Evolution of RPA, Differentiating RPA from Automation, Assisted and unassisted automation, Defining Robotic Process Automation & its benefits, comparison to other automation technology.

Module 2 RPA Skills: On premise Vs. the cloud, Web Technology, Programming Languages and low code, OCR, APIs, Cognitive automation, flowchart

Module 3 Process Methodologies: Lean, Six Sigma, Applying lean and Six Sigma to RPA.

Module 4 Planning and BOT Development: How Robotic Process Automation works, RPA development methodology and key considerations, Robotic Process Automation Tools. Sequence flowchart and control flow, various types of loops and decision making, Introduction to UiPath platform and its components, Types of Templates, User Interface Domains in Activities Workflow, Files in UiPath.

Automate login to your (web)Email account Recording mouse and keyboard actions to perform an operation Scraping data from website and writing to CSV/Excel Programming, Debugging and Logging Deployment and Monitoring, Data Preparation, RPA Vendors, Blue Prism, UiPath platform etc. Open Source RPA, Future of RPA.

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

- Taulli T. Process Mining. The Robotic Process Automation Handbook 2020:A Guide to Implementing RPA System (pp. 273-292). Apress, Berkeley, CA.
- Tripathi AM. Learning Robotic Process Automation: Create Software robots and automate business processes with the leading RPA tool–UiPath. Packt Publishing Ltd; 2018 Mar 28.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	Credit	Semester
PROJECT STAGE - II	BMT-811	12	VII

Methodology

gy

Topics of project are to be based on the latest trends, verifying engineering concepts /principle and should involve elementary research work. The projects may involve design, fabrications, testing, computer modeling, and analysis of any engineering problem. On completion of the practical training the students are to present a report covering various aspects learnt by them and give a presentation on same.

Examination Scheme:

Literature study/ Fabrication/ Experimentation	40
Written Report	20
Viva	15
Presentation	25
Total	100

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
FUEL CELLS AND APPLICATIONS	BMT-805	3 0 0	3	VIII

A. Course Learning Outcomes:

CLO 1	Know the applications of fuel cells in various domains
CLO 2	Distinguish various types of fuel cells and their functionalities

Course Contents

MODULE 1 – INTRODUCTION TO FUEL CELLS:

Introduction – working and types of fuel cell – low, medium and high temperature fuel cell, liquid and methanol types, proton exchange membrane fuel cell solid oxide, hydrogen fuel cells – thermodynamics and electrochemical kinetics of fuel cells.

MODULE 2 – FUEL CELLS FOR AUTOMOTIVE APPLICATIONS:

Fuel cells for automotive applications – technology advances in fuel cell vehicle systems – onboard hydrogen storage – liquid hydrogen and compressed hydrogen – metal hydrides, fuel cell control system
– alkaline fuel cell – road map to market.

MODULE 3 – FUEL CELL COMPONENTS AND THEIR IMPACT ON PERFORMANCE:

Fuel cell performance characteristics – current/voltage, voltage efficiency and power density, ohmic resistance, kinetic performance, mass transfer effects – membrane electrode assembly components, fuel cell stack, bi-polar plate, humidifiers and cooling plates.

MODULE 4 – FUELING:

Hydrogen storage technology – pressure cylinders, liquid hydrogen, metal hydrides, carbon fibers – reformer technology – steam reforming, partial oxidation, auto thermal reforming – CO removal, fuel cell technology based on removal like bio-mass

MODULE 5 - FUEL CYCLE ANALYSIS:

Introduction to fuel cycle analysis – application to fuel cell and other competing technologies like battery powered vehicles, SI engine fueled by natural gas and hydrogen and hybrid electric vehicle.

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

1. Fuel Cells for automotive applications – professional engineering publishing UK. ISBN 1-86058

4233, 2004.

2. Fuel Cell Technology Handbook SAE International Gregor Hoogers CRC Press ISBN 0-8493-0877-1-2003.

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
ENTREPRENEURSHIP DEVELOPMENT	BMT-807	3 0 0	3	VIII

A. Course Learning Outcomes:

CLO 1	Apply new ideas, methods and ways of thinking
CLO 2	Engage with a range of stakeholders to deliver creative and sustainable solutions to specific problems
CLO 3	Work effectively with colleagues with diverse skills, experiences and be able to critically reflect on own practice
CLO 4	Consider the ethical and environmental issues and responsibilities which managers take into account when making decisions

MODULE 1 – Entrepreneurship:

Definition of Entrepreneur, Internal and External Factors, Functions of an Entrepreneur, Entrepreneurial motivation and Barriers, Classification of Entrepreneurship, Theory of Entrepreneurship, Concept of Entrepreneurship, Development of entrepreneurship; Concept of entrepreneur ,Manager and Intrapreneur (differences in their roles, responsibilities and Career Opportunities)

MODULE 2 – Creativity and Entrepreneurial Plan:

The business plan as an entrepreneurial tool, Contents of a business plan, Idea Generation, Screening and Project Identification, Creative Performance, Feasibility Analysis: Economic, Marketing, Financial and Technical; Project Planning: Evaluation, Monitoring and Control segmentation. Creative Problem Solving: Heuristics, Brainstorming, Synectics, Value Analysis, Innovation. Project Feasibility and Project Appraisal.

MODULE 3 – Corporate entrepreneurship:

Introduction, Flavors of corporate entrepreneurship, Corporate venturing, Intrapreneurship, organizational transformation, Industry rule bending, Need for corporate entrepreneurship, domain of corporate entrepreneurship, conditions favorable for Corporate entrepreneurship, benefits of Corporate entrepreneurship, issues related to Corporate entrepreneurship.

MODULE 4 – Family and Non-Family Entrepreneur & Women entrepreneurs:

Role of Professionals, Professionalism vs family entrepreneurs, Role of Woman entrepreneur, Factors influencing women entrepreneur, Challenges for women entrepreneurs, Growth and development of women entrepreneurs in India

MODULE 5 - Project Finance:

Need for finance, sources of finance, Venture capital, Nature and Overview, Venture capital process, locating venture capitalists.

MODULE 6- International Entrepreneurship Opportunities:

The nature of international entrepreneurship, Importance of international business to the firm, International versus domestic entrepreneurship, Stages of economic development. Institutional support for new ventures: Supporting Organizations; Incentives and facilities; Financial Institutions and Small-scale Industries, Govt. Policies for SSIs. Case studies on Indian Start up

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

1. Vasant Desai, Dynamics of Entrepreneurship Development ,Himalaya Publication house
2. David holt Entrepreneurship , New Venture Creation , Prentice Hall India.
3. S.S. Khanka ,Entrepreneurial Development S.Chand & Company Ltd. New Delhi
4. Peter F. Drucker , Innovation and Entrepreneurship

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
Flexible Manufacturing system	BMT-807	3 0 0	3	VIII

A. Course Learning Outcomes:

CLO 1	Apply the concepts of PPC and GT to the development of FMS.
CLO 2	Discuss the planning and scheduling methods used in manufacturing systems.
CLO 3	Identify various workstations, system support equipments.
CLO 4	Identify hardware and software components of FMS.
CLO 5	Summarize the concepts of modern manufacturing such as JIT, supply chain management and lean manufacturing etc.

B. Syllabus:-

Module-I

Understanding of FMS: Evolution of Manufacturing Systems, Definition, objective and Need, Components, Merits, Demerits and Applications Flexibility in Pull and Push type

Module- II

Classification of FMS Layout: Layouts and their Salient features, Single line, dual line, loop, ladder, robot centre type etc.

Module- III

Processing stations: Salient features Machining Centers, Turning centre, Coordinate measuring machine (CMM), Washing/ Deburring station

Module- IV

Material Handling System: An introduction, Conveyor, Robots, Automated Guided Vehicle (AGV), Automated Storage Retrieval System (ASRS) Management technology: Tool Management, tool magazine, Tool preset, identification, Tool monitoring and fault detection, routing, Production Planning and Control, Scheduling and loading of FMS

Module- V

Design of FMS: Performance Evaluation of FMS, Analytical model and Simulation model of FMS Case studies: Typical FMS problems from research papers

C. Evaluation:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

D. Text books & References book:

1. William W Luggen, "Flexible Manufacturing Cells and System" Prentice Hall of Inc New

Jersey, 1991

2. Reza A Maleki “Flexible Manufacturing system” Prentice Hall of Inc New Jersey, 1991

3. John E Lenz “Flexible Manufacturing” marcel Dekker Inc New York ,1989.

References

1. Groover, M.P “Automation, Production Systems and Computer Integrated Manufacturing”, Prentice Hall

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
FUNDAMENTALS OF SIGNAL PROCESSING	BMT-808	3 0 0	3	VIII

A. Course Learning Outcomes:-

CLO 1	Explain the importance of signal processing in computing, electronics, control engineering and telecommunications
CLO 2	State and explain the Nyquist-Shannon sampling theorem
CLO 3	Analyze signals using their spectrum
CLO 4	Analyze systems using their transfer function and frequency response
CLO 5	Explain the equivalence between time continuous and time discrete systems

B. Syllabus:-

MODULE 1 – SIGNALS AND SYSTEMS

Introduction to continuous, Discrete and Digital signals, Classification of continuous and Discrete Time signal – Periodic, Even and Odd, Energy and Power, Deterministic and Random, Complex exponential signals, Elementary signals – UNIT step, Ramp, Impulse, Classification of systems : Linear, Time invariant, Causal, Stable, Invertible systems, BIBO Stability criterion.

MODULE 2 – DISCRETE FOURIER SERIES

DFS Representation of Periodic Sequence, properties of Discrete Fourier Series. Discrete Fourier Transforms: Properties of DFT, Linear Convolution of Sequences using DFT.

MODULE 3 – FAST FOURIER TRANSFORMS

Fast Fourier Transforms (FFT) – Radix Decimation-in-Time and Decimation-in-Frequency FFT Algorithms, Inverse FFT, and FFT with General Radix-N.

MODULE 4 – DISCRETE TIME SIGNALS AND Z TRANSFORM

Baseband Sampling - DTFT – Properties of DTFT. Definition of Z transforms, Properties, Inverse Z transform.

MODULE 5 - HARDWARE IMPLEMENTATION OF DSP

Introduction to Digital Signal Processing, DSP processor, architecture of DSP processors. Bus Architecture and Memory, Data Addressing Capabilities, Address Generation Unit, Programmability and Program Execution, Features for External Interfacing

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

1. Digital Signal Processing, Principles, Algorithms, and Applications John G. Proakis, Dimitris G. Manolakis, Pearson Education / PHI, 2007.
2. Discrete Time Signal Processing — A. V. Oppenheim and R.W Schaffer, PHI, 2009
Fundamentals of Digital Signal Processing — Loney Ludeman, John Wiley, 20093

Amity School of Engineering and Technology (ASET)

Course Name	Course Code	L T P	Credit	Semester
AUTOMOTIVE SENSORS AND APPLICATIONS	BMT-809	3 0 0	3	VIII

A. Course Learning Outcomes:-

CLO 1	To provide in depth knowledge in physical principles applied in sensing, measurement and a comprehensive understanding on how measurement systems are designed, calibrated, characterised, and analysed.
CLO 2	To introduce the students to sources and detectors of various Optical sensing mechanisms and provide in-depth understanding of the principle of measurement, and theory of instruments and sensors for measuring velocity and acceleration
CLO 3	To give a fundamental knowledge on the basic laws and phenomena on which operation of sensor transformation of energy is based.
CLO 4	To impart a reasonable level of competence in the design, construction, and execution of mechanical measurements strain, force, torque and pressure

B. Syllabus:-

Course Contents

MODULE 1 – Introduction to Automotive Engineering, Automotive Management systems Power-train, Combustion Engines, Transmission, Differential Gear, Braking Systems, Introduction to Modern Automotive Systems and need for electronics in Automobiles, Application areas of electronics in the automobiles, Possibilities and challenges in the automotive industry, Enabling technologies and Industry trends.

MODULE 2 – Power train Sensors

λ sensors, exhaust temperature sensor, NOx sensor, PM sensor, fuel quality sensor, level sensor, torque sensor, speed sensor, mass flow sensor, manifold pressure sensor.

MODULE 3 – Sensors for Chassis management

Wheel speed sensors/direction sensors, steering position sensor (multi turn), acceleration sensor (inertia measurement), brake pneumatic pressure sensor, ABS sensor, electronic stability sensor.

MODULE 4 – Sensors for vehicle body management, Sensors for automotive vehicle convenience and security systems Gas sensors (CO₂), Temperature/humidity sensor, air bag sensor, key less entering sensor, radar sensors. Tire pressure monitoring systems, Two wheeler and Four wheeler security systems, parking guide systems, anti-lock braking system, future safety technologies, Vehicle diagnostics and health monitoring, Safety and Reliability, Traction Control, Vehicle dynamics control, Accelerators and tilt sensors for sensing skidding and anti-collision, Anti-collision techniques using ultrasonic Doppler sensors.

MODULE 5 - Air Bag and Seat Belt Pre tensioner Systems

Principal Sensor Functions, Distributed Front Air Bag sensing systems, Single-Point Sensing systems, Side-Impact Sensing, and Future Occupant Protection systems.

MODULE 6: Modern Trends and Technical Solutions

Enabling Connectivity by Networking:-In vehicle communication standards (CAN & LIN), Telematic solutions, Portable or embedded connectivity- Endorsing Dependability in Drive-bywire systems:- Terminology and concepts , Why by-wire, FLEXRAY, Requirements on cost and dependability, Drive-by-wire case studies- prototype development-future of In vehicle communication

MODULE 7: Passenger Convenience Systems

Electromechanical Seat, Seat Belt Height, Steering Wheel, and Mirror Adjustments, Central Locking Systems, Tire Pressure Control Systems, Electromechanical Window Drives.

Examination Scheme:

Components	Other Components	Attendance	MTE	ESE
Weightage (%)	30	5	15	50

MTE: Mid Term Examination, ESE: End Semester Examination;

Text & References:

1. Automotive Electrics, Automotive Electronics: Systems & Components, 2014, 5th Edition, BOSCH.
2. 2 John Turner, Automotive Sensors, 2010, 1st Edition, Momentum Press, New York

INTRODUCTION TO COMPUTER NETWORKING

Course Code	Credit Units	Semester
BCI 103	03	1

CLO 1: Able to understand the computer networking principals and its applications in our world.

CLO 2: To understand how computer networks work, and its fundamentals when implemented for real world.

CLO 3: To understand various modulation techniques and how they are used to improve network performance.

CLO 4: To be able to understand the working of various network layer protocols such as TCP, IP etc.

Course Contents:

Module I

Introduction to Data Communication, Networks-protocols, advantages, disadvantages & applications, Line Configuration, topology, Transmission mode, Classification of networks.

Parallel & Serial Transmissions, Analog & Digital Signals, Periodic & Aperiodic Signals, Modulation--Amplitude Modulation, Frequency Modulation, Phase Modulation, Pulse Amplitude Modulation, Pulse Code Modulation, Sampling

Module II

Amplitude Shift Keying, Frequency Shift Keying, Phase Shift Keying, Bit/ Baud Comparison, DTE-DCE Interface, 56 K Modem, Cable Modem.

OSI Model, Transmission Media-Twisted Pair Cable, Coaxial Cable, Fiber-Optics Cable, Radio frequency Allocation, Terrestrial Microwave, Infrared rays, Satellite Communication, Cellular Telephony, Introduction to ISDN.

Module III

Framing, Line Discipline, Types of Errors, Error Detection & Correction (VRC, LRC, CRC, Checksum, Hamming Code), Flow Control (Stop-and-wait & Sliding Window), Error Control (Stop & Wait ARQ, Sliding Window ARQ using Go-back n method and Selective-Rject).

CSMA/CD, Project 802, IEEE Standards-802.3, Token Bus (802.4), Token Ring (802.5), Introduction to Bridges.

Module IV

Internal Organization of Network Layer, Routing Algorithms-Shortest Path Routing, Flooding, Distance Vector Routing, Link State Routing, General Principles of Congestion, Congestion Prevention Policies. Duties of Transport Layer, Connection Establishment & Connection Termination.

Module V

Introduction to TCP/IP, Data Link Layer in Internet-SLIP & PPP, Network Layer in Internet-IP protocol, IP addressing, Subnetting & Internet Control Protocols, Transport Layer in Internet-TCP & UDP.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

- Behrouz ., Forouzan., "Data Communication and Networking", TMH
- W. Stallings, "Data and Computer Communication" PHI
- A.S. Tanenbaum, "Computer Networks" , PHI
- Kennedy, "Electronics Communication System", TMH

COMPUTER CONCEPTS & PROBLEM SOLVING

Course Code	Credit Units	Semester
BCI 105	03	1

CLO1: Identify different programming approaches in procedural programming.
CLO2: Analyse and critically evaluate various programming approaches which will help in implementation of different application or projects.
CLO3: Select and implement different programming approach concepts in project or application development. CLO4: Demonstrate awareness of programming paradigm in terms of understanding the concept of application development.

Course Contents:

UNIT I FUNDAMENTALS OF COMPUTERS

Evolution of Computers, Inputs/Outputs devices, Alternative Methods of Input, Organization of Modern Digital Computers, Operating System, Multitasking OS, Graphical User Interface.

UNIT II WORD PROCESSING

Word Processing Programs and Their Uses, Word Processor's Interface, Editing Text Formatting Text, Macro, Special Features of Word, Desktop Publishing Service, Converting doc into www pages.

UNIT III SPREADSHEET SOFTWARE

Spreadsheet Programs, Applications, Spreadsheet package features, attributes, structure, label, data, importing data, formula, functions, data handling, Managing workbooks.

UNIT IV INTRODUCTION TO COMPUTER PROBLEM SOLVING

Introduction, Problem Solving aspects, Top-Down Design-Implementation of Algorithms, Program Verification-Efficiency of Algorithm, Analysis of Algorithm fundamental algorithm, factorial computation, generation of Fibonacci sequence.

UNIT V FACTORING AND ARRAY TECHNIQUES

Factoring Methods, finding the square root of a number, generating prime numbers, Array techniques, array order reversal, Finding the maximum number in a set, Removal of duplicates from an ordered Array-finding the kth smallest element.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

1. V.Rajaraman "Computer Programming in C" Prentice Hall of India, New Delhi, 2001
2. Kamthane, A.N., "Programming with ANSI and Turbo C", Pearson Education, Delhi, 2006.
3. Yashavant P. Kanetkar "Pointers In C", BPB Publications, NewDelhi, 2002
4. E.Balagurusamy "Programming in ANSI C", Tata McGraw Hill, 2004
5. Deitel and Deitel "C How to Program", Addison Wesley, 2001

COMPUTER CONCEPTS & PROBLEM SOLVING LAB

Course Code	Credit Units	Semester
BCI 125	01	1

CLO 1: Recognize the concept of Computer Organization.

CLO 2: Identify the utility of various office package tools and their application.

CLO 3: Describe problem solving approach through the design and implementation of algorithm.

CLO 4: Apply hands on real time development of algorithm based on various techniques.

Course Contents:

- 1 Program to find sum of two numbers
- 2 Program to find area and circumference of circle. [$A=3.14*R*R$ & $C=2*3.14*R$]
- 3 Program to find the simple interest. [$SI=(P*R*T)/100$]
- 4 Program to convert temperature from degree centigrade to Fahrenheit. [$F=(1.8*C)+32$]
- 5 Program to calculate sum of 5 subjects & find percentage
- 6 Program to use bitwise AND & OR operator between the two integers
- 7 Program to shift inputted data by two bits to the left
- 8 Program to show swap of two no's without using third variable
- 9 Program to find gross salary.
[Gross Salary= Basic salary + T.A. (12% of Basic) + D.A. (10% of basic)]
- 10 Program to find greatest in 3 numbers
- 11 Program to show the use of conditional operator
- 12 Program to find that entered year is leap year or not
- 13 Program to find whether given no is even or odd
- 14 Program to use switch statement. Display Monday to Sunday
- 15 Program to display arithmetic operation using switch case.
- 16 Program to print a table of any number.
- 17 Program to display first 10 natural no & their sum.
- 18 Program to reverse a given number.
- 19 Program to print stars Sequence 1
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- 20 Program to print stars Sequence 2
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*
- 21 Program to print star Sequences 3
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- 22 Program to print Fibonacci series up to 100
- 23 Program to find factorial of a number. [Ex: $5! = 5*4*3*2*1$]
- 24 Program to find whether given no is a prime number or not
- 25 Program to show sum of 10 elements of array & show the average
- 26 Program to find the maximum no in an array
- 27 Program to display matrix
- 28 Program to find sum of two matrices
- 29 Program to find subtraction of two matrices
- 30 Program to find multiplication of two matrices

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	15	15	15	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.



Course Name	Course Code	LTP	Credit	Semester
Big Data Analytics	MBA386	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the fundamentals of Big Data and its Applications in various Domains.
CLO 2	Conceptualize and Incorporate the Technologies behind Big Data.
CLO 3	Understand HDFS File Structure, Map Reduce Framework, the architectures related to them and to use them to solve complex problems.
CLO 4	Integrate R with Hadoop and solve analytical problems.
CLO 5	Understand and Use Hive/Hbase shell pertaining to relational data handling under Hadoop.

B. SYLLABUS

Module 1: Introduction to Big Data, Big data Analytics

Definition of Big Data, Applications of Big Data, Data Science and its application,

Module 2: Data Lifecycle: Data Deployment Approach, Internal data management process, big data internal advancements, maturity gap, Data Science application to Business

Key Data Challenges to Strategic Business Decisions

Module 3: Data Security, Ethics, issues related to data ownership, Fair data treatment, Proper data management in special cases (Merger, Growth, Acquisition etc.), emerging Markets

Module 4: Data Analytics for Big Data-Data Presentations, Descriptive statistics, Introduction to various big Data tools and Techniques, Big Data Modeling and Management Systems

Module 5: Future Data Trends

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Books:

1. Big Data Analytics: A Management Perspective, Corea, Francesco, 2016
2. HBR Guide to Data Analytics Basics for Managers (HBR Guide Series)
3. Business Analytics for Managers, Jank, Wolfgang, 2011

DOMAIN ELECTIVE

INTRODUCTION TO .NET TECHNOLOGIES

Course Code	Credit Units	Semester
BCI 431	03	4

CLO1: This Introduction to .NET Programming training course provides hands-on experience creating software for Microsoft's .NET (Windows platform) using the Visual Studio development environment. Starting with the most fundamental elements of computer programming, the training evolves to leverage development techniques sufficient to produce a complete web application including the user interface, business logic and data access layers. You learn how to write code using Visual Basic (VB) and C#; create ASP.NET Web applications and process Web forms and build SQL Server databases and access them using ADO.NET.

CLO2: Participants have the choice of using either C# (C Sharp) or VB (Visual Basic) – the Microsoft .NET core languages. Techniques presented include design, code generation, testing and debugging including use of the ASP.NET (Active Server Pages) the SQL Server database.

Course Contents:

Module I: Introduction to .NET technologies

Features of .NET, .NET Framework, CLR framework, MSIL, .NET class library, .NET Languages, CTS, assemblies, manifest, and metadata, What is ASP.NET?, Difference between ASP and ASP.NET.

Module II: Introduction to C#, Variables and expressions, flow controls, functions, debugging and error handling, OOPs with C#, Defining classes and class members, collections, Type Casting, String functions, Indexers, Delegates and events.

Module III: Controls in ASP.NET

Overview of Dynamic Web page, Understanding ASP.NET Controls, Applications, Web servers, Installation of IIS. Web forms, web form controls -server controls, client controls. Adding controls to a web form, Buttons, Text Box, Labels, Checkbox, Radio Buttons, List Box. Adding controls at runtime. Running a web Application, creating a multiform web project. Form Validation: Client side validation, server Side validation, validation Controls: Required Field Comparison Range. Calendar control, Ad rotator Control, Internet Explorer Control, Dynamic Controls.

Module IV: Overview of ADO.NET and XML

What is ADO.NET, from ADO to ADO.NET? ADO.NET architecture, Accessing Data using Data Adapters and Datasets , using Command & Data Reader, binding data to data bind Controls, displaying data in data grid, XML basics, attributes, fundamental XML classes: Document, text writer, text reader. XML validations, XML in ADO.NET, The XML Data Document.

Module V: ASP.NET Applications and Web services

Creating, tracking, caching, error handling, Securing ASP.NET applications- form based applications, window based application. Introduction, State management- View state, Session state, Application state, Building ASP.NET web services, working with ASP.NET applications, creating custom controls.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:***Text:***

- ASP.NET Unleashed by Stephen Walther, SAMS publications

References:

- ASP.NET, Wrox Publications
- ASP.NET and VB.NET, Wrox Publication
- ASP.NET and C#.NET, Wrox publication.

BIG DATA ANALYTICS LAB

Course Code	Credit Units	Semester
BCA 445	03	4

CLO1: Understand the Big Data Platform and its Use cases
CLO2: Provide an overview of Apache Hadoop
CLO3: Provide HDFS Concepts and Interfacing with HDFS
CLO4: Understand Map Reduce Jobs
CLO5: Provide hands on Hadoop Eco System
CLO6: Apply analytics on Structured, Unstructured Data. Exposure to Data Analytics with R

Course Contents:

Module I Introduction to Big Data

Introduction – distributed file system – Big Data and its importance, Four Vs, Drivers for Big data, Big data analytics, Big data applications. Algorithms using map reduce, Matrix-Vector Multiplication by Map Reduce.

Module II Introduction Hadoop

Big Data – Apache Hadoop & Hadoop EcoSystem – Moving Data in and out of Hadoop – Understanding inputs and outputs of MapReduce - Data Serialization.

Module III Hadoop Architecture

Hadoop Architecture, Hadoop Storage: HDFS, Common Hadoop Shell commands , Anatomy of File Write and Read., NameNode, Secondary NameNode, and DataNode, Hadoop MapReduce paradigm, Map and Reduce tasks, Job, Task trackers - Cluster Setup – SSH & Hadoop Configuration – HDFS Administering – Monitoring & Maintenance.

Module IV Hadoop Ecosystem and Yarn

Hadoop ecosystem components - Schedulers - Fair and Capacity, Hadoop 2.0 New Features- NameNode High Availability, HDFS Federation, MRv2, YARN, Running MRv1 in YARN.

Module V HIVE AND HIVEQL, HBASE

Hive Architecture and Installation, Comparison with Traditional Database, HiveQL - Querying Data - Sorting And Aggregating, Map Reduce Scripts, Joins & Subqueries, HBase concepts- Advanced Usage, Schema Design, Advance Indexing - PIG, Zookeeper - how it helps in monitoring a cluster, HBase uses Zookeeper and how to Build Applications with Zookeeper.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

- Chris Eaton, Dirk DeRoos, Tom Deutsch, George Lapis, Paul Zikopoulos, “Understanding Big
- Data: Analytics for Enterprise Class Hadoop and Streaming Data”, McGrawHill Publishing, 2012
- Bill Franks, “Taming the Big Data Tidal Wave: Finding Opportunities in Huge Data Streams with Advanced Analytics”, JohnWiley & sons, 2012.

ANDROID PROGRAMMING

Course Code	Credit Units	Semester
BCI 533	03	5

CLO1: Read and understand Java and Kotlin based software code of medium-to-high complexity.
CLO2: Understand the basic principles of creating Android applications with graphical user interface (GUI).
CLO3: Apply the above to design, implement, appropriately document and test an Android application of medium complexity, consisting of multiple activities.
CLO4: Understand activity life cycle, intents and services, UI elements and understand the principles of developing nice user interface.
CLO5: Understand and use Storage in Android, SQLite, build android apps using media and location services.

Course Contents

Module –I: Introduction

Setting up development environment, Dalvik Virtual Machine & .apk file extension, Fundamentals, Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers, UI Components - Views & notifications, Components for communication -Intents & Intent, Filters, Android API levels (versions & version names)

Module –II: Android Structure

AndroidManifest.xml, Uses-permission & uses-sdk, Resources & R.java, Assets, Layouts & Drawable Resources, Activities and Activity lifecycle, First sample Application.

Module –III: Emulator – Android Virtual Machine

Launching emulator, Editing emulator settings, Emulator shortcuts, Logcat usage, Introduction to DDMS, Hello World App, Creating your first project, The manifest file, Layout resource, Running your app on Emulator, Second App:- (switching between activities),- Develop an app for demonstrating the, communication between Intents, Explicit Intents, Implicit intents

Module –IV: UI design

Time and Date, Images and media, Composite, Alert Dialogs & Toast, Popup, Examples, Option menu, Context menu, Sub menu, menu from xml, menu via code, Examples

Module –V: Adapters and Widgtes

Adapters:-Array Adapters, Base Adapters, ListView and List Activity, Custom listview, Grid View using adapters, Gallery using adapters

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & Reference:

- Android Programming: The Big Nerd Ranch Guide (Big Nerd Ranch Guides) (By: Bill Philips & Brian Hardy)
- Android Recipes: A Problem-Solution Approach, Dave Smith & Jeff Friesen

ANDROID PROGRAMMING LAB

Course Code	Credit Units	Semester
BCI 543	03	5

<p>CLO1: Read and understand Java and Kotlin based software code of medium-to-high complexity.</p> <p>CLO2: Understand the basic principles of creating Android applications with graphical user interface (GUI).</p> <p>CLO3: Apply the above to design, implement, appropriately document and test an Android application of medium complexity, consisting of multiple activities.</p> <p>CLO4: Understand activity life cycle, intents and services, UI elements and understand the principles of developing nice user interface.</p> <p>CLO5: Understand and use Storage in Android, SQLite, build android apps using media and location services.</p>
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The experiments will be based on the topics covered in the corresponding theory Course.

1. Write a Program to Build a Simple Android Application
2. Java Andorid Program to Demonstrate Usage of String.xml File
3. Java Andorid Program to Demonstrate Activity Life Cycle
4. Write a Program to Change the Background of your Activity
5. Java Andorid Program to Perform all Operations using Calculators
6. Write a Program to Change the Image Displayed on the Screen
7. Write a Program to Create Multiple Activities within an Application
8. Write a Program to Demonstrate Action Button by Implementing on Click Listener
9. Write a Program to Demonstrate the Sound Button Application
10. Write a Program to Demonstrate the use of Scroll View
11. Write a Program to Demonstrate Radio Group Application
12. Write a Program to Demonstrate Alert Dialog Box
13. Write a Program to Set the Wallpaper of Your Device using Bitmap Class
14. Write a Program to Demonstrate the Menu Application
15. Write a Program to Demonstrate Toast in an Application
16. Write a Program for Dividing our Activity into Fully Encapsulated Reusable Components using Fragement
17. Write a Program to Demonstrate List View Activity
18. Write a Program to Draw on a Canvas
19. Write a Program to Demonstrate Count Down Timer Application
20. Write a Program to Demonstrate Layouts in an Activity and Nesting of Layouts
21. Write a Program to Demonstrate Grid View Layout in Android
22. Write a Program to Create Simple Menu in Android
23. Write a Program to Demonstrate Creating an Options Menu in Android
24. Write a Program to Demonstarte Menu Groups in Android
25. Write a Program to Demonstrate Checkable Menu Items in Android

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	15	15	15	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

INTRODUCTION TO PYTHON TECHNOLOGIES

Course Code	Credit Units	Semester
BCA 602	03	6

CLO1: To learn how to use lists, tuples, and dictionaries in Python programs and identify Python object types.

CLO2: To learn how to use indexing and slicing to access data in Python programs

CLO3: Use if-else statements and switch-case statements to write programs in Python to tackle any decision-making scenario

CLO4: To learn how to read and write files in Python.

CLO5: Develop cost-effective robust applications using the latest Python trends and technologies

CLO6: Build systems entire web development process using various tools.

UNIT I

ALGORITHMIC PROBLEM SOLVING

Algorithms, building blocks of algorithms (statements, state, control flow, functions), notation (pseudo code, flow chart, programming language), algorithmic problem solving, simple strategies for developing algorithms (iteration, recursion). Illustrative problems: find minimum in a list, insert a card in a list of sorted cards, guess an integer number in a range, Towers of Hanoi.

UNIT II

DATA, EXPRESSIONS, STATEMENTS

Python interpreter and interactive mode; values and types: int, float, boolean, string, and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; modules and functions, function definition and use, flow of execution, parameters and arguments; Illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points.

UNIT III

CONTROL FLOW, FUNCTIONS

Conditionals: Boolean values and operators, conditional (if), alternative (if-else), chained conditional (if-elif-else); Iteration: state, while, for, break, continue, pass; Fruitful functions: return values, parameters, local and global scope, function composition, recursion; Strings: string slices, immutability, string functions and methods, string module; Lists as arrays. Illustrative programs: square root, gcd, exponentiation, sum an array of numbers, linear search, binary search.

UNIT IV

LISTS, TUPLES, DICTIONARIES

Lists: list operations, list slices, list methods, list loop, mutability, aliasing, cloning lists, list parameters; Tuples: tuple assignment, tuple as return value; Dictionaries: operations and methods; advanced list processing – list comprehension; Illustrative programs: selection sort, insertion sort, mergesort, histogram.

UNIT V

FILES, MODULES, PACKAGES

Files and exception: text files, reading and writing files, format operator; command line arguments, errors and exceptions, handling exceptions, modules, packages; Illustrative programs: word count, copy file.

Examination Scheme:

Components	CT1	A/C/Q	Attd	EE
Weightage (%)	10	15	5	70

Text & References:

Python Programming: An introduction to computer science.

Reference:

Learning Python: Powerful Object Oriented Programming.

INTRODUCTION TO PYTHON TECHNOLOGIES LAB

Course Code	Credit Units	Semester
BCA 622	01	6

CLO1: To learn how to use lists, tuples, and dictionaries in Python programs and identify Python object types.
CLO2: To learn how to use indexing and slicing to access data in Python programs.
CLO3: Use if-else statements and switch-case statements to write programs in Python to tackle any decision-making scenario.
CLO4: To learn how to read and write files in Python.
CLO5: Develop cost-effective robust applications using the latest Python trends and technologies.
CLO6: Build systems entire web development process using various tools.

1. Programs that take command line arguments (word count)
2. Find the most frequent words in a text read from a file.
3. Compute the GCD of two numbers.
4. First n prime numbers.
5. Find the square root of a number (Newtons method).
6. Find Exponentiation (power of a number).
7. Find the maximum of a list of numbers.
8. Multiply matrices
9. Linear search
10. Binary search
11. Selection sort
12. Insertion sort
13. Merge sort
14. Simulate elliptical orbits in Pygame
15. Simulate bouncing ball using Pygame

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	15	15	15	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

HUMAN COMPUTER INTERACTION

Course Code	L	T	P	Credit	Semester
BSI101	2	1	0	3	I

Course Learning Outcome:

CLO 1:	Understand the principles of human computer interaction
CLO 2:	Design good user interfaces for end users experience
CLO 3:	Prototype the human computer interaction design
CLO 4:	Evaluate the human computer interaction prototype model

Course Contents:

Unit I: Introduction

Importance of user Interface-definition, importance of good design, benefits of good design, brief history of screen design, the graphical user interface - popularity of graphics, the concept of direct manipulation, graphical system, characteristics, web user - Interface popularity, characteristics - Principles of user interface.

Unit II: Design process

Human interaction with computers, importance of human characteristics human consideration, Human interaction speeds, understanding business junctions

Unit III: Screen Designing

Design goals-Screen planning and purpose, 8 organizing screen elements, ordering of screen data and content-screen navigation and flow - visually pleasing composition - amount of information - focus & emphasis-presentation information simply & meaningfully-information retrieval on web-statistical graphics - Technological consideration in interface design

Unit IV: Windows

New and Navigation schemes selection of window, 8 selection of devices based and screen based controls. Components-text and messages, Icons and increases-Multimedia, colors, uses problems, choosing colors.

Unit V: Software tools

Specification methods, interface-Building Tools, Interaction Devices - Keyboard and function keys, pointing devices - speech recognition digitization and generation-image and video displays-drivers.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

- Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale Human Computer Interaction, 3rd Edition Prentice Hall, 2004.
- Jonathan Lazar Jinjuan Heidi Feng, Harry Hochheiser, Research Methods in Human Computer Interaction, Wiley, 2010.
- Ben Shneiderman and Catherine Plaisant Designing the User Interface.
- Strategies for Effective Human-Computer Interaction (5th Edition, pp. 672, ISBN 0-321-53735-1, March 2009), Reading, MA: Addison-Wesley Publishing Co.

DIGITAL & COMPUTER ORGANIZATION

Course Code	L	T	P	Credit	Semester
BSI301	2	1	0	3	III

Course Learning Outcome:

CLO1: Perform basic arithmetic calculations in binary, decimal and hexadecimal number system.

CLO2: Investigate, analyse and synthesise combinational logic circuits and how basic computer components are specified.

CLO3: Analyse the operation of short assembly language programs.

CLO4: Formulate and employ a Karnaugh Map to reduce Boolean expressions and logic circuits to their simplest forms

Course Contents:

Module I: Digital Logic Fundamentals

Boolean Algebra: Basic Functions, Manipulating Boolean functions, Basic Combinational Logic: Adder / Subtractor, Decoders, Encoders, Multiplexers, Memory, Basic Sequential Circuits: Flip-flops, Registers, Counters.

Module II: General Computer Architecture

Block Diagram of typical Computer, Memory Section, Input / Output Section, CPU, Registers, Arithmetic Unit, Instruction handling Areas, Stacks

Micro operations: Register Transfer, Bus and Memory Transfer, Arithmetic Micro operations, Logic Micro operations, Shift Micro operations, Arithmetic Logic Unit

Module III: Basic Computer Organization and Design

Instruction Codes, Operation code, Timing and Control, Instruction Cycle, Memory Reference Instructions, Input Output Instructions and Interrupts

Control Memory: Control Word, Microinstruction, Microprogramming, Control Memory, Hardwired

Module IV: Central Processing Unit

General Register Organization, Stack Organization, Instruction Formats, Addressing Modes, RISC, CISC

Pipelining and Vector Processing: Parallel Processing, Pipelining, Arithmetic Pipeline, Instruction Pipeline, Vector Processing, Array Processors

Module V: Input Output Organization

I/O Interface, Asynchronous Data Transfer, Modes of Transfer, Priority Interrupt, DMA, IOP, Serial Communication

Memory Organization: Associative Memory, Cache Memory, Virtual Memory

Module VI: Introduction to Microprocessor

Machine Language, Assembly Language, Assembler, High Level Language, Compiler, Interpreter, Internal Architecture 8085.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

- Computer System Architecture, M.M. Mano, Pearson Education.
- Computer Architecture and Organization, J.P Hayes, TNH.
- Lance A Leventhal Introduction to Microprocessors: Software, Hardware, Programming
- Hwang and Briggs Computer Architecture and Parallel Processing

INTRODUCTION TO INFORMATION SYSTEMS

Course Code	L	T	P	Credit	Semester
BSI302	2	1	0	3	III

Course Learning Outcome:

CLO1: Identify different information concepts and approaches in information system.
CLO2: Analyse and critically evaluate various information concepts which will help in understanding of different information systems.
CLO3: Select and implement different approaches which help in understanding information system concepts in project or application development.
CLO4: Demonstrate awareness of information paradigm in terms of understanding the concept of information system as a whole.

Course Contents:

Module I

Core concepts: Information, data and systems, Value of Information, types of information, types of data, types of systems, Elements of system: Input, Processing, Output, & Feedback, Contemporary trends in information & communication tech., Networking Technologies
Information systems: Definition, Components of Information Systems, types of information system in organization, Computer-Based Information Systems, Business Information Systems, The People in Information Systems, ERP system

Module II

Transaction Processing Systems, Features of TPS, Management information systems (MIS), Decision Support System (DSS), Executive information systems (EIS), Office information systems (OIS), Knowledge work systems (KWS) and knowledge management systems (KMS), Computers in industrial processes, E-commerce, social and economic context of computer use, Data protection and computer crime

Module III

Development of information systems, Where to start: build, buy, rent or participate?, Approaches to the work of systems development, RAD software development, Organizational change, The information system lifecycle, Professional roles in systems development, Reviewing the lifecycle model, CASE Tools

Module IV

Tools and methods for analysis and design, object oriented modeling, Class diagrams and data models, implementation methodology, change management

Module V

Globalization, Global Firm, challenges of globalization, IT role in globalization, Network Society, Digital Divide, Nielsen's 3 stages of the digital divide, Consequences of digital technology, OLPC project-Case Study, Information Systems Security

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

- Fundamentals of Information Systems, Ralph Stair, George Reynolds, Course Technology; 7 edition
- Information Systems for Business and Beyond, David T. Bourgeois, the Saylor Academy, 2014
- Introduction to information systems, T. Cornford, M. Shaikh, University of London, 2013

E-GOVERNANCE

Course Code	L	T	P	Credit
BSI334	2	1	0	3

Course Learning Outcomes:

CLO1: Understand the concept of e-governance.
CLO2: Understand the different Models of E-Governance
CLO3: Understand the concept of data ware house and data mining

Module 1. Introduction

E-Governance: Needs of E-Governance, Issues in E-Governance applications and the Digital Divide; Evolution of E-Governance, Its scope and content; Present global trends of growth in E-Governance: Other issues.

Module 2. Models of E-Governance

Introduction; Model of Digital Governance: Broadcasting/ Wilder Dissemination Model, Critical Flow Model, Comparative Analysis Model, Mobilization and Lobbying Model, Interactive-service Model/Government-to-Citizen-to-Government Model (G2C2G); Evolution in E-Governance and Maturity Models: Five Maturity Levels, Characteristics of Maturity Levels, Key areas, Towards Good Governance through E-Governance Models.

Module 3. E-Governance Infrastructure and Strategies

E-readiness: Digital System Infrastructure, Legal Infrastructural Preparedness, Institutional Infrastructural Preparedness, Human Infrastructural Preparedness, Technological Infrastructural Preparedness; Evolutionary Stages in E-Governance.

Module 4. Data Warehousing and Data Mining in Government

Introduction; National Data Warehouses: Census Data, Prices of Essential Commodities; Other areas for Data Warehousing and Data Mining: Agriculture, Rural Development, Health, Planning, Education, Commerce and Trade, Other Sectors.

Module 5. Case Studies

Nepalese Context: Cyber Laws, Implementation in the Land Reform, Human Resource Management Software; India: NICNET, Collectorate, Computer-aided Administration of Registration Department (CARD), Smart Nagarpalika, National Reservoir Level and Capacity Monitoring System, Computerization in Andra Pradesh, EkalSevaKentra, SachivalayaVahini, Bhoomi, IT in Judiciary, E-Khazana, DGFT, PRAJA, E-Seva, E-Panchyat, General Information Services of National Informatics Centre; E-Governance initiative in USA; E-Governance in China; E-Governance in Brazil and Sri Lanka.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

1. E-Governance: Concepts and Case Studies, C.S.R. Prabhu, Prentice-Hall of India Private Limited, 2004.
2. Backus, Michiel, e-Governance in Developing Countries, IICD Research Brief, No. 1, March 2001.

UNIX OPERATING SYSTEM AND SHELL PROGRAMMING

Course Code	Credit Units	Semester
BCI 503	03	5

<p>CLO1: Identify the UNIX file system and its advantages.</p> <p>CLO2: Describe the essential UNIX commands and shell programming.</p> <p>CLO3: Apply and compare UNIX administration commands for privilege distribution.</p> <p>CLO4: Implement different types of shell scripting programming.</p>
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Course Contents:

Module I: Overview

UNIX Overview, UNIX System Organization, Kernel , Running a Command: the Shell, Files and Directories, Peripheral Devices and UNIX: Special Files.

Module II: UNIX Commands & UNIX Editors

Login, password, hostname; creating an account; Virtual consoles; shell and commands; logout; changing password; Files and Directories; pathname; Directory Tree; current working directory; relative pathname; referring to home directories; Commands to move around; creating new directories; copying files; moving files; Deleting files and directories; looking at files: cat, more; Getting online help; manual pages. Wildcards; hidden files; Standard input and output; redirecting input and output; filter; pipes; file permissions; user and group; Interpreting file permissions; Permission Dependencies; Changing permissions. Managing file links; hard links; symbolic links; jobs and process: process ID; Job control; foreground and background jobs; suspend and interrupt a process; Back grounding and killing jobs; stopping and restarting jobs.

Vi Editor

Command mode, insert mode and last line mode; command to delete character, insert line; deleting text, command for moving the cursor; including other files; running shell commands; getting vi help; search and replace commands; changing and deleting text, Change word, Change line, Delete current line, Delete n lines, Delete remainder of Lines; copying and moving; Saving and Exiting

Module III: File System

UNIX File System, File Permissions, System Calls and Library Functions

Module IV: UNIX Shell Programming

Interactive Shell Scripts, Shell Variables and Keywords, Positional Parameters and Command Line Arguments, Arithmetic in Shell Scripts, Taking Decisions, Loop Control Structure, Shell Metacharacters

Module V: System Administration

Adding and Removing Users, Starting up and Shutting down the System, Disk Management, File System Mounting and Unmounting, Monitoring System Usage, Ensuring System Security

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

Text:

- Maurice J. Bach, “Design of the Unix operating System” PHI.
- Prata. “Advanced UNIX-A Programmers Guide” BPB
- Kanetkar. “UNIX Shell Programming” BPB

References:

- Sumitabha Das, “UNIX: Concepts and Application”, TMH.
- Das. “UNIX- Concepts & Applications

UNIX OPERATING SYSTEM AND SHELL PLROGRAMMING LAB

Course Code	Credit Units	Semester
BCI 523	01	5

CLO1: Identify the UNIX file system and its advantages.
CLO2. Describe the essential UNIX commands and shell programming.
CLO3. Apply and compare UNIX administration commands for privilege distribution.
CLO4. Implement different types of shell scripting programming.

Unix Programmes

1. Write a Shell Script that takes a search string and filename from the terminal & displays the results.
2. Write a Shell Script that takes pattern and filename as command line arguments and displays the results appropriately i.e. pattern found/pattern not found.
3. Write a Shell Script that accepts only three arguments from the command line. The first argument is the pattern string, the second argument is the filename in which the pattern is to be searched and the third argument is the filename in which the result is to be stored.
4. Write a Shell Script that accepts a filename as a command line argument and finds out if its a regular file or a directory. If its a regular file, then performs various tests to see if it is readable, writeable, executable etc.
5. Write a Shell Script which creates the following menu and prompts for choice from user and runs the chosen command.
 - Today's date
 - Process of user
 - List of files
 - Quit to UNIX
6. Write a Shell Script that computes the factorial of a given number
7. Write a Shell Script that works like a calendar reminding the user of certain things depending on the day of the week.
8. Write a Shell Script that changes the extension of a group of files from txt to doc
9. Write a Shell Script that accepts both filename and a set of patterns as positional parameters to a script.
10. Write a Shell Script which will redirect the output of the date command without the time into a file.
11. Write a Shell Script (using while loop) to execute endlessly (until terminated by user) a loop which displays contents of current directory, disk space status, sleep for 30 seconds and display the users currently logged in on the screen.
12. Write a Shell Script that receives two filenames as arguments. It should check whether content of the two files is same or not. If they are same, second file should be deleted.
13. If a number is input through the keyboard, WASS to calculate sum of its digits.
14. Write a Shell Script that performs a count-down either from 10 (default) or from the value that is

entered by the user

15. Write a Shell Script which takes a command line argument of Kms and by default converts that number into meters. Also provide options to convert km to dm and km to cm.

16. Write a Shell Script using for loop, which displays the message "Welcome to the UNIX System"

17. Write a Shell Script to change the filename of all files in a directory from lower-case to upper-case.

18. Write a Shell Script that examines each file in the current directory. Files whose names end in **old** are moved to a directory named **old files** and files whose names end in **.c** are moved to directory named **cprograms**.

19. Write a Shell Script which searches all files in the given directory (to be taken as command line argument) for the file having the title (to be taken as command line argument), as the first line in the file.

a) Display the contents of the searched file.

b) In the end, print the file is ###, where

is small-sized if total no. of lines is <50

is medium-sized if total no. of lines between 50&100

is large-sized.

20. Write a shell script which reports names and sizes of all files in a directory (directory would be supplied as an argument to the shell script) whose size is exceeding 1000 bytes. The filenames should be printed in descending order of their sizes. The total number of such files should also be reported.

21. WASS for renaming each file in the directory such that it will have the current shell PID as an extension. The shell script should ensure that the directories do not get renamed.

22. WAP to calculate and print the first *m* Fibonacci numbers.

23. WASS that will receive any number of filenames as arguments. The shell script should check whether such files already exist. If they do, then it should be reported. The files that do not exist should be created in a sub-directory called **mydir**. The shell script should first check whether the sub-directory **mydir** exists in the current directory. If it doesn't exist, then it should be created. If **mydir** already exists, then it should be reported along with the number of files that are currently present in **mydir**.

24. A shell script receives even number of filenames. Suppose four filenames are supplied, then the first file should get copied into second file, the third file should get copied into fourth and so on. If odd number of filenames is supplied then no copying should take place and an error message should be displayed.

25. WASS to identify all zero-byte files in the current directory and delete them. Before proceeding with deletion, the shell script should get a conformation from the user.

26. WASS to compute the **GCD** and **LCM** of two numbers.

27. Two numbers are entered through the keyboard. WAP to find the value of one number raised to the power of another.

28. WASS that prompts the user for the password. The user has maximum of 3 attempts. If the user enters the correct password, the message "Correct Password" is displayed else the message "Wrong Password"

29. WASS that repeatedly asks the user repeatedly for the “Name of the Institution” until the user gives the correct answer.

30. WAP to generate all combinations of 1, 2 and 3 using **for loop**.

Examination Scheme:

Examination Scheme:

IA				EE	
A	PR	LR	V	PR	V
5	15	15	15	25	25

Note: IA –Internal Assessment, EE- External Exam, PR- Performance, LR – Lab Record, V – Viva.

E-WASTE MANAGEMENT

Course Code	L	T	P	Credit	Semester
BSI601	2	1	0	3	VI

Course Learning Outcome:

CLO1 Introduction

CLO2. Enterprise Modelling and Integration of ERP.

CLO3. Supply chain management and ERP.

CLO4. Information Technology Plan for ERP system.

CLO5. SAP Architecture & Other ERP Key Vendors.

Course Contents:

Module I

E-Waste Introduction, Global E-Waste Problem, Scale of the e-waste problem, flow of e-waste, Causes of E-Waste, Toxins in Ewaste, e-waste trade, illegal e-waste trade, Main issues related to E-waste, Security implications

Module II

Risks to human health and the environment, Biological Effects of E-Waste Chemicals, Organic E-Waste Chemicals, Chemicals of primary concern in e-waste, The cocktail effect and metabolites, Classification and labeling of chemicals, Labor and employment issues, Workers' exposure in developing countries, Child labor at e-waste recycling sites

Module III

Recycling of Ewaste- Wheel of Life, ewaste handling, Business Model for E-Waste, Myth of Reuse, E-Waste Recycling Plants, Recycling of Component Materials in Electronic Devices, Solutions to the E-Waste Crisis, Producer Responsibility For Recycling, Global E-Waste Dumping, Case Study on Recycling of E-Waste.

Module IV

Risk Assessment Approaches for E-Waste, Systems analysis approach to the e-waste problem, Risk Communication Approaches for E-Waste Sites, Current Gaps in the E-Waste Database, Future directions for managing E-Waste, E- Waste Legislations, Regional legislation, National legislation, Current initiatives, research centers and organizations involved with e-waste.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & Reference:

- E-waste Management: From Waste to Resource by RamzyKahhat, Klaus Hieronymi, Eric Williams, Routledge, Taylor & Franics Group
- Electronic Waste Management: Design, Analysis and Application by Ronald E. Hester, Roy M. Harrison, RSC Publishing

- E-waste: implications, regulations, and management in India and current global best practices by Rakesh Johri, TERI Press (The Energy and Resource Institute)
- Electronic Waste: Recycling Techniques by Hugo Marcelo Veit, Andréa Moura Bernardes, Springer Publications
- Risks of Hazardous Wastes By Paul E. Rosenfeld, Lydia Feng, Elsevier Inc.
- Waste: A Handbook for Management by Trevor M. Letcher, Daniel Vallero, Elsevier Inc.

GREEN COMPUTING

Course Code	L	T	P	Credit	Semester
BSI602	2	1	0	3	VI

Course Learning Outcome:

CLO1: To learn the fundamentals of Green Computing this includes the overview, issues, initiatives, and standards worldwide.

CLO 2: To analyze the Green computing Grid Framework in terms of minimizing power usage and cooling.

CLO 3: To understand the issues related with Green compliance to change the way of work and going paperless.

CLO 4: To study and develop various case studies involving recycling, hardware consideration and greening the information system.

Course Contents:

Module I

Overview and Issues: Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power.

Initiatives and Standards:Global Initiatives: United Nations, Basel Action Network, Basel Convention, North America: The United States, Canada, Australia, Europe, WEEE Directive, RoHS, National Adoption, Asia: Japan, China, Korea.

Module II

Minimizing Power Usage: Power Problems, Monitoring Power Usage, Servers, Low-Cost Options, Reducing Power Use, Data De-Duplication, Virtualization, Management, Bigger Drives, Involving the Utility Company, LowPower Computers, PCs, Linux, Components, Servers, Computer Settings, Storage, Monitors, Power Supplies, Wireless Devices, Software.

Cooling:Cooling Costs, Power Cost, Causes of Cost, Calculating Cooling Needs, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together.

Module III

Changing the Way of Work:Old Behaviours, starting at the Top, Process Reengineering with Green in Mind, Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource.

Going Paperless:Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers vs. the Clipboard, Unified Communications, Intranets, What to

Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles.

Module IV

Recycling:Problems, China, Africa, Materials, Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Companies, Finding the Best One, Checklist, Certifications, Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mind-set, David vs. America Online

Hardware Considerations:Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection, In Practice

Module V

Greening Your Information Systems:Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.

Staying Green:Organizational Check-ups, Chief Green Officer, Evolution, Sell the CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyze Data, Conduct Audits, Certifications, Benefits, Realities, and Helpful Organizations.

Examination Scheme:

Components	CT	Assignment	P/V	Quiz	Attd	EE
Weightage (%)	15	10	10	10	5	50

Text & References:

- Green IT, Toby Velte, Anthony Velte, Robert Elsenpeter, McGraw Hill, 2008
- Green Data Center: Steps for the Journey, Alvin Galea, Michael Schaefer, Mike Ebbers, Shroff Publishers and Distributors, 2011
- Green Computing Tools and Techniques for Saving Energy, Money and Resources, Bud E. Smith, CRC Press, 2014

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
ENTREPRENEURSHIP DEVELOPMENT	BTB 703	3:0:0	3	7

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To enable students, acquire Entrepreneurship skills
CLO 2	Make students understand and develop required entrepreneurship skills

Course Contents:

Module I

Principles and function of management, Planning and decision making, Line and staff relationship, management by objective.

Module II

Formal and informal organization, Performance appraisal, Training and development.

Module III

Entrepreneurship and entrepreneurial process, Business plan, Form of ownership suitable for business.

Module IV

Entrepreneurial motivation and leadership, entrepreneurial competencies, entrepreneurial development programme.

Examination Scheme:

Components	CT	Attendance	Assignment/ Project/Seminar/Quiz	EE
Weightage (%)	15	5	30	50

Text & References:

Text:

- Essentials of Management, H. Koontz, H. Weihrich and C. O'Donnell, McGraw-Hill/Irwin
- David H Holt, Entrepreneurship : New Venture Creation

References:

- The Practice of Management, P. Drucker, Harper Business

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
ENTREPRENEURSHIP DEVELOPMENT	BTB 703	3:0:0	3	7

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To enable students, acquire Entrepreneurship skills
CLO 2	Make students understand and develop required entrepreneurship skills

Course Contents:

Module I

Principles and function of management, Planning and decision making, Line and staff relationship, management by objective.

Module II

Formal and informal organization, Performance appraisal, Training and development.

Module III

Entrepreneurship and entrepreneurial process, Business plan, Form of ownership suitable for business.

Module IV

Entrepreneurial motivation and leadership, entrepreneurial competencies, entrepreneurial development programme.

Examination Scheme:

Components	CT	Attendance	Assignment/ Project/Seminar/Quiz	EE
Weightage (%)	15	5	30	50

Text & References:

Text:

- Essentials of Management, H. Koontz, H. Weihrich and C. O'Donnell, McGraw-Hill/Irwin
- David H Holt, Entrepreneurship : New Venture Creation

References:

- The Practice of Management, P. Drucker, Harper Business



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
SCIENTIFIC WRITING	BTF 534	4:0:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Introduction to Scientific Field and Biological research
CLO 2	Computing skills for scientific research
CLO 3	Types of articles and paper format

B. SYLLABUS:

Module I

Introduction: Science, Scientific Field and Biological research. Role of a researcher in different stages of a project, Routes to research funding (academic and commercial). Plagiarism: Introduction; Tools for the detection of plagiarism; Avoiding plagiarism

Module II

Research – Definition – Importance and Meaning of research – Characteristics of research – Types of Research – Steps in research – Identification, Selection and formulation of research problem – Research questions – Research design – Formulation of Hypothesis – Review of Literature. Concept of impact factor

Module III: Computing skills for scientific research

Web browsing for information search; search engines and their mechanism of searching; hidden Web and its importance in scientific research; internet as a medium of interaction between scientists; effective email strategy using the right tone and conciseness. Graphic designing - Approach and Significance in research

Module IV

Type of Articles (review, letters etc). Scientific paper format (Abstract, Introduction, Materials and Methods, Results, Discussion). Writing, evaluating, presenting and publishing the results of scientific research in the academic press (journals, conferences etc). Choosing the appropriate journal (Sources, Information, Instructions to authors, peer review system, journal evaluation)

Module V

Case studies of areas of current research. Formulating a research plan and its presentation

Examination Scheme:

Components	CT	Attendance	Assignment/ Project/Seminar/Quiz	EE
Weightage(%)	15	5	30	50

Text & References:

References:

- Scientific journals and magazines



AMITY UNIVERSITY

RAJASTHAN

AMITY INSTITUTE OF MICROBIAL TECHNOLOGY (AIMT)

Course Name	Course Code	LTP	Credit	Semester
Bio-entrepreneurship	MMC 213	3:0:0	3	2

A. Course Learning Outcomes (CLO)

CLO 1	To develop entrepreneurship skills in the students
CLO 2	To assess the startup project ideas in life sciences
CLO 3	To study the market research, marketing strategies for enterprise fundings

B. Syllabus

Module-I: - Introduction

Entrepreneurship: Concept - Evolution - Theories, Role in Economic Development, and entrepreneurial traits.

Module-II: - Market Research

Market Study - Questionnaire Design / Survey, potential Consumers & Competitors, Market Strategy Development.

Module-III: - IPR & Regulatory Agencies

Introduction to IPR, Trademarks, Copywrites, Trade Secrets. Protection of IPR. Technology Transfer & Commercialization, Licensing Deal, Relevant National & International Agencies.

Module-IV: - Resource Management

Government & Non-Government schemes, fund raising, Bank Loans & Asset Values, Strategic Partners & Angel Investors. Business Incubation Centers.

Module-V: - Project Management & Start up Methodology

Procedure and Legal Formalities for startup, Project drafting, Bio - business modeling, new venture creation, pitching, Recruitment of relevant expertise.

E - Learning Links:

http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000023MA/P001403/M016027/ET/1465203437Module-7Entre.pdf

Examination Scheme:

Components	CT	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

Text and Reference Books: -

- 1 Drucker, P. Innovation and Entrepreneurship. 2Rev Ed edition. ButterworthHeinemann, 2010.
- 2 Hopkins, Bruce. A Legal Guide to Starting and Managing a Nonprofit Organization. 3rd edition. Wiley, 2000.
- 3 Jensen, Bill. Simplicity: The New Competitive Advantage in a World of More, Better, Faster. Perseus, 2001.
4. P. Saravanavelu, "Entrepreneurship Development", Eskapee Publications.
- 5 N.P. Srinivasan & G.P.Gupta, "Entrepreneurship Development", Sul tanchand & Sons.
- 6 Barringer M.J. "Entrepreneurship", Prentice-Hall, 1999
- 7 Robert D. Hisrich, Michael P. Peters, "Entrepreneurship Development", Tata McGraw Hill
8. Vasanth Desai, "Dynamics of Entrepreneurial Development and Management", Himalayas Publishing House



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
BIOCHEMICAL BASIS IN DISEASES	BSB130	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the structure and chemical transformations of inorganic molecules.
CLO 2	Understand the distinguish between natural and synthetic material
CLO 3	Basic idea about radioactive element,catalysis, chemical reaction etc

B. SYLLABUS

Module 1: Nutritional and Inborn disorders

Alkaptonuria, Phenylketonuria, Glycogen and Lipid storage diseases, SCID, Clotting disorders.

Module 2: Nutritional deficiency based diseases

Kwashiorkar, Marasmus, Beri-beri, Scurvy, Pellagra, Anaemia, Night blindness, Rickets, Osteomalacia, Osteoporosis, Wilson's disease.

Module 3: Life style diseases

Obesity, Cardiovascular diseases, Atherosclerosis, Diabetes mellitus-II. Inflammatory Bowel Disease (IBD).

Module 4: Hormonal Imbalances

Outline of hormone action and imbalances leading to disease - precocious puberty, hyper and hypopituitarism. Hyper and hypothyroidism.

Module 5: Infectious diseases

Viral infection (polio, measles, mumps, influenza, HIV); Bacterial infections (tetanus, diphtheria, tuberculosis, typhoid, cholera); Protozoan (Plasmodium and Trypanosoma) and parasitic infections.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

Suggested Readings

1. Textbook of Biochemistry with Clinical Correlations (2011) Devlin, T.M. John Wiley & Sons, Inc. (New York), ISBN: 978-0-4710-28173-4.
2. Immunology: A Short Course (2009) 6th ed., Coico, R and Sunshine, G., John Wiley & sons, Inc (New Jersey), ISBN: 978-0-470-08158-7
3. Biochemistry (2012) 7th ed., Berg, J.M., Tymoczko, J.L. and Stryer, L., W.H Freeman and Company (New York), ISBN: 13:978-1-4292-7635-1.
4. Genetics (2012) 6th ed., Snustad, D.P. and Simmons, M.J., John Wiley & Sons. (Singapore), ISBN: 978-1-118-09242-2.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
SCIENTIFIC WRITING	BTF 534	4:0:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Introduction to Scientific Field and Biological research
CLO 2	Computing skills for scientific research
CLO 3	Types of articles and paper format

B. SYLLABUS:

Module I

Introduction: Science, Scientific Field and Biological research. Role of a researcher in different stages of a project, Routes to research funding (academic and commercial). Plagiarism: Introduction; Tools for the detection of plagiarism; Avoiding plagiarism

Module II

Research – Definition – Importance and Meaning of research – Characteristics of research – Types of Research – Steps in research – Identification, Selection and formulation of research problem – Research questions – Research design – Formulation of Hypothesis – Review of Literature. Concept of impact factor

Module III: Computing skills for scientific research

Web browsing for information search; search engines and their mechanism of searching; hidden Web and its importance in scientific research; internet as a medium of interaction between scientists; effective email strategy using the right tone and conciseness. Graphic designing - Approach and Significance in research

Module IV

Type of Articles (review, letters etc). Scientific paper format (Abstract, Introduction, Materials and Methods, Results, Discussion). Writing, evaluating, presenting and publishing the results of scientific research in the academic press (journals, conferences etc). Choosing the appropriate journal (Sources, Information, Instructions to authors, peer review system, journal evaluation)

Module V

Case studies of areas of current research. Formulating a research plan and its presentation

Examination Scheme:

Components	CT	Attendance	Assignment/ Project/Seminar/Quiz	EE
Weightage(%)	15	5	30	50

Text & References:

References:

- Scientific journals and magazines

ENTREPRENEURSHIP DEVELOPMENT IN BIOTECHNOLOGY	MTB231	3:0:0	3	2
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the principles and functions of management
CLO 2	Understand types of organizations, staff appraisal, training and development process
CLO 3	Understand the entrepreneurial process ,preparation of business plan
CLO 4	Understand the entrepreneurial motivation, traits and development

B. SYLLABUS

Module-I

BIO ENTERPREUNERSHIP: Introduction to bio-business, from the Indian context, SWOT analysis of bio-business. Entrepreneur, Creativity & Entrepreneurial personality and Entrepreneurship in Biotechnology, pillars of bio-entrepreneurship and major start-ups in Biotechnology, Concept and theories of Entrepreneurship, Entrepreneurial traits and motivation, Nature and importance of Entrepreneurs, Government schemes for commercialization of technology (eg. Biotech Consortium India Limited).

Module-II

PROJECT MANAGEMENT: Meaning of Project; Project Identification; Project Selection; Project Report; Need and Significance of Report; Contents; Formulation; Guidelines by Planning Commission for Project report; Network Analysis; Errors of Project Report; Project Appraisal.

Module-III

BIOTECH ENTERPRISES: Desirables in start-up, Setting up Small, Medium & Large scale industry, Quality control in Biotech industries, Location of an enterprise, steps for starting a small industry, incentives and subsidies, exploring export possibilities.

Module-IV

BUSINESS DEVELOPMENT IN BIOTECHNOLOGY: Factors affecting biotech business: (finance, infrastructure, equipment, manpower, resources, project location, end product, quality issues, etc) Basic principles and practices of management – Definition, concepts and application; Organization types, coordination, control and decision making in management

Module-V

ENTREPRENEURSHIP OPPORTUNITY IN INDUSTRIAL BIOTECHNOLOGY: Business opportunity, Essential requirement, marketing strategies, schemes, challenges and scope-with case study- Pollution monitoring and Bioremediation for Industrial pollutants, Pesticides, Herbicides etc. Integrated compost production- microbe enriched compost. Bio pesticide/insecticide production. Fermented products-probiotic and prebiotics. Stem cell production, stem cell bank, contract research. Production of monoclonal/polyclonal antibodies, Single cell protein and secondary metabolite production. Contact research in microbial genomics.

Examination Scheme:

Components	Mid Term	Attendance	Assignment/ Project/Seminar/Quiz	Class Test	Viva	EE
Weightage (%)	15	5	10	10	10	50

Suggested Book:

Dynamics of Entrepreneurial Development and Management by Vasant Desai, Himalaya Publishing House, 2005.

Science Business: The Promise, the Reality, and the Future of Biotech by Gary P. Pisano Harvard Business School Press: 2006.

Innovation and entrepreneurship in biotechnology: Concepts, theories & cases by D. Hyne & John Kapeleris, 2006

Principles of Management P. C.Tripathi, P.N. Reddy Tata McGraw Hill Fifth Edition, 2012

Bio Entrepreneurship development-A resource book by BCIL, Govt of India 2018.

ENTREPRENEURSHIP DEVELOPMENT IN BIOTECHNOLOGY	MTB231	3:0:0	3	2
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the principles and functions of management
CLO 2	Understand types of organizations, staff appraisal, training and development process
CLO 3	Understand the entrepreneurial process ,preparation of business plan
CLO 4	Understand the entrepreneurial motivation, traits and development

B. SYLLABUS

Module-I

BIO ENTERPREUNERSHIP: Introduction to bio-business, from the Indian context, SWOT analysis of bio-business. Entrepreneur, Creativity & Entrepreneurial personality and Entrepreneurship in Biotechnology, pillars of bio-entrepreneurship and major start-ups in Biotechnology, Concept and theories of Entrepreneurship, Entrepreneurial traits and motivation, Nature and importance of Entrepreneurs, Government schemes for commercialization of technology (eg. Biotech Consortium India Limited).

Module-II

PROJECT MANAGEMENT: Meaning of Project; Project Identification; Project Selection; Project Report; Need and Significance of Report; Contents; Formulation; Guidelines by Planning Commission for Project report; Network Analysis; Errors of Project Report; Project Appraisal.

Module-III

BIOTECH ENTERPRISES: Desirables in start-up, Setting up Small, Medium & Large scale industry, Quality control in Biotech industries, Location of an enterprise, steps for starting a small industry, incentives and subsidies, exploring export possibilities.

Module-IV

BUSINESS DEVELOPMENT IN BIOTECHNOLOGY: Factors affecting biotech business: (finance, infrastructure, equipment, manpower, resources, project location, end product, quality issues, etc) Basic principles and practices of management – Definition, concepts and application; Organization types, coordination, control and decision making in management

Module-V

ENTREPRENEURSHIP OPPORTUNITY IN INDUSTRIAL BIOTECHNOLOGY: Business opportunity, Essential requirement, marketing strategies, schemes, challenges and scope-with case study- Pollution monitoring and Bioremediation for Industrial pollutants, Pesticides, Herbicides etc. Integrated compost production- microbe enriched compost. Bio pesticide/insecticide production. Fermented products-probiotic and prebiotics. Stem cell production, stem cell bank, contract research. Production of monoclonal/polyclonal antibodies, Single cell protein and secondary metabolite production. Contact research in microbial genomics.

Examination Scheme:

Components	Mid Term	Attendance	Assignment/ Project/Seminar/Quiz	Class Test	Viva	EE
Weightage (%)	15	5	10	10	10	50

Suggested Book:

Dynamics of Entrepreneurial Development and Management by Vasant Desai, Himalaya Publishing House, 2005.

Science Business: The Promise, the Reality, and the Future of Biotech by Gary P. Pisano Harvard Business School Press: 2006.

Innovation and entrepreneurship in biotechnology: Concepts, theories & cases by D. Hyne & John Kapeleris, 2006

Principles of Management P. C.Tripathi, P.N. Reddy Tata McGraw Hill Fifth Edition, 2012

Bio Entrepreneurship development-A resource book by BCIL, Govt of India 2018.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Fermentation Technology	MSD 101	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Introduction to various culture methods
CLO 2	Understanding of fermenter designs
CLO 3	Process operation and control and monitoring at industrial level

B. SYLLABUS

Module I

Advantage of bioprocess over chemical process. Basic principle in bioprocess technology. Major agro-industrial waste products used for fermentation, Media formulation sterilization, thermal death kinetics, batch and continuous sterilization system.

Modern strain improvement techniques, Sterilization of Industrial Media, Air and Fermenter.

Module II

Transport phenomena in bioprocess – Mass transfer, mass transfer co-efficient for gases and liquids. Rate of oxygen transfer. Determination of oxygen transfer coefficient. Rheological properties of inter-medium. Biological heat transfer, Heat transfer coefficients. Bioprocess control and monitoring variables such as temperature, agitation, pressure, pH etc.

Module III

Kinetics of microbial growth, substrate utilization and product formation Batch, Fed-batch, CSTR types of reactors– CSTR, tower, airlift, bubble column, packed bed, immobilized cells, Control and monitoring, online and off-line control, Computers in bioprocess control systems. Solid state and submerged fermentation process.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Module IV

Industrial production of enzymes and biomolecules: cellulase, amylase, protease; organic acids: citric acid, acetic acid, lactic acid; ethanol, biomass, antibiotics: classification, penicillins, tetracyclins, chloramphenicol; vitamins: B12, riboflavin, Production by batch, continuous and fed batch techniques, isolation, purification and characterization of biomolecules from fermentation media and storage.

Module V

Biomass: Bakers and distillers yeast production using various raw materials, “bio” factors for growth, Crabtree effect, harvesting, different forms and uses. What are mushroom, different forms of common mushroom production from agro based raw materials and uses. Fermented milk products – Production, purification and packaging of Curd, Cheese, acidophilus milk, Yoghurt, Kefir, Single cell protein (SCP) production. Probiotics and prebiotics; Fermented foods based on milk, meat and vegetables; Fermented beverages.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. F Stanbury, Allan Whitaker, Stephen J Hall, Principles of Fermentation Technology, Peter, Aditya Text Pvt. Ltd.
2. Casida, Industrial Microbiology, New Age International
3. Prescott and Dunn, Industrial Microbiology, C.B.S. Publishers
4. J. Waites, Neil L. Morgan, John S. Rockey, Gary Higton, Industrial Microbiology: An Introduction, Michael Blackwell Science Ltd
5. Bailey and Ollis, Biochemical Engineering, McGraw Hill Education
6. Humphrey, Principles of Biochemical Engineering, Wiley-VCH.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Food Chemistry and Nutrition	MSD 102	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Get knowledge about chemical processes in food.
CLO 2	Understand various constituents in foods.
CLO 3	Understand role of water as solvent in food systems.
CLO 4	Understand various facts about nutrition

B. SYLLABUS

Module I

Definition and importance of major food constituents, Importance of water in food, Phases of water, Role of water as a solvent in food systems, Concept of water activity and moisture migration.

Module II

Carbohydrates, proteins and lipids: classification, nomenclature, physical, chemical and functional properties and their structural correlations; Major types of starch, Process of starch gelatinization, Process of staling, Modified starches and other polysaccharides used in foods.

Module III

Lipids as emulsifiers, Amino acid and protein interaction, External factors that influence protein systems in foods, Protein modification, Fat replacers; Properties of minerals, vitamins, pigments, flavor components, Interaction of constituents in food systems; Changes during storage and processing; Browning reactions in foods. Auto-oxidation of lipids and rancidity.

Module IV



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Food groups and their typical composition; essential nutrients- sources, functions, deficiency diseases; requirements and recommended dietary allowances; digestion, absorption, transport and metabolism of nutrients in human system

Module V

Food allergy and intolerance, Allergens, toxins and anti-nutritional factors in foods

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. F Stanbury, Allan Whitaker, Stephen J Hall, Principles of Fermentation Technology, Peter, Aditya TextPvt. Ltd.
2. Belitz HD. Food Chemistry. Springer Verlag.
3. DeMan JM, Principles of Food Chemistry. AVI.
4. Fennema OR, Food Chemistry. Marcel Dekker.
5. Meyer LH, Food Chemistry. CBS.
6. Swaminathan M, Essentials of Foods and Nutrition. Vol. II. Ganesh & Co.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Instrumental Methods of Food Analysis	MSD 103	3:1:0	4	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Explain general principals and scope of food analysis instruments
CLO 2	Illustrate clear concepts on working principles of analytical instruments
CLO 3	Demonstrate critical analytical and lab skills in food analysis
CLO 4	Evaluate sample preparation techniques for different food applications

B. SYLLABUS

Module I

Sampling techniques; Water activity, its measurements and significance in food industry

Module II

Spectroscopic techniques using UV/Vis, fluorescence, atomic absorption spectroscopy, polarimetry, refractometry (Application in Food Industry)

Module III

Chromatographic techniques: Adsorption, column, partition, affinity, ion exchange, size exclusion, GC, GLC, HPLC, HPTLC, GCMS, LCMS and significance in food industry.

Module IV

Electrophoresis, solid phase extraction, isoelectric focusing.

Module V

Immunoassay techniques; biosensors; Enzyme linked immunosorbent assay (Application in Food Industry)



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EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. James CS (1998). Analytical chemistry of foods, Blackie Acad, UK.
2. Winton, AL (1999). Techniques of food analysis, Allied Science Publication, New Delhi.
3. Suzanne Nielson S (2003) Food analysis, Kluwer Academic Press, New York.
4. Winton AL (1999) Techniques of food analysis, Allied Science, Official methods of analysis, Association of official analytical chemist USA.
5. Song, DWS (1996) Mechanism and theory in food chemistry Champasian and Hall Inc. New York.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Fermentation Technology (Lab)	MSD 121	0:0:1	1	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Introduction to various culture methods
CLO 2	Understanding of fermenter designs
CLO 3	Process operation and control and monitoring at industrial level

B. List of Practical's:

1. Determination of protein in given food sample using UV spectrophotometer.
2. Preparation of culture media for cultivation of specific microorganism
3. Isolation of microbes from air, soil and water samples
4. Identification by Simple staining.
5. Identification by differential Gram staining.
6. Identification by Lacto phenol cotton blue staining
7. Biochemical test – Indole test, methyl red test, voges proskaeur test, citrate utilization, starchhydrolysis, protease, catalase test and oxidase test
8. Identification of microbes in water samples
9. Standard plate count
10. Presumptive and confirmed coli form test
11. BOD and COD



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EXAMINATION SCHEME:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
15	10	05	35	15	10	10

SUGGESTED READINGS

1. Principles of Fermentation Technology, Peter F Stanbury, Allan Whitaker, Stephen J Hall, Aditya Text Pvt. Ltd.
2. Industrial Microbiology, Casida, New Age International
3. Industrial Microbiology, Prescott and Dunn, C.B.S. Publishers



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Food Chemistry and Nutrition (Lab)	MSD 122	0:0:1	1	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Get knowledge about chemical processes in food.
CLO 2	Understand various constituents in foods.
CLO 3	Understand role of water as solvent in food systems.

B. List of Practical's:

1. Determination of moisture and ash content
2. Determination of protein and fat content
3. Determination of rancidity of oil
4. Determination of minerals (Ca, P, Fe)
5. Estimations of reducing and total sugars
6. Estimations of starch and crude fibre content
7. Determination of calorific value of foods.
8. Determination of BMI & BMR of subject.
9. Case studies for diagnosis of nutritional deficiencies / disorders in human beings.

EXAMINATION SCHEME:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
15	10	05	3 5	15	10	10

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

SUGGESTED READINGS

1. Suzanne Nielson S (2003) Food analysis, Kluwer Academic Press, New York.
2. Winton AL (1999) Techniques of food analysis, Allied Science, Official methods of analysis, Association of official analytical chemist USA.
3. Song, DWS (1996) Mechanism and theory in food chemistry Champasian and Hall Inc. New York



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Instrumental Methods of Food Analysis (Lab)	MSD 123	0:0:1	1	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding the basic principle of analytical instruments
CLO 2	Learning the precautions to be taken while operating the instruments
CLO 3	Demonstrate critical analytical and lab skills in food analysis

B. List of Practical's:

1. Determination of protein in given food sample using UV spectrophotometer.
2. Detection of food adulteration in food sample using nanotechnology based colorimetric methods.
3. Detection of glucose in given food sample using lateral flow based strips.
4. Estimation of water activity in food sample using water activity meter.
5. Determination of viscosity using viscometer.
6. To determine the color using lovibond tintometer.
7. Demonstration of HPLC and GLC.
8. Demonstration of Flame photometer.
9. Demonstration of electrophoresis.

EXAMINATION SCHEME:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
15	10	05	35	15	10	10



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

SUGGESTED READINGS

1. Suzanne Nielson S (2003) Food analysis, Kluwer Academic Press, New York.
2. Winton AL (1999) Techniques of food analysis, Allied Science, Official methods of analysis, Association of official analytical chemist USA.
3. Song, DWS (1996) Mechanism and theory in food chemistry Champasian and Hall Inc. New York



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Cold Chain Management	MSD 130	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Develop a sound understanding of the important role of cold chain management in today's business environment
CLO 2	Become familiar with current cold chain management trends and apply the current supply chain theories, practices and concepts utilizing case problems and problem-based learning situations
CLO 3	Demonstrate the use of effective written and oral communications, critical thinking, team building and presentation skills as applied to business problems

B. SYLLABUS

Module I

Introduction to Frozen Food: Introduction to technology of cold chain management, Market demand, current status and future scope of frozen foods. Cold chain integration and energy auditing.

Module II

Fundamentals of Freezing: Glass transitions in frozen foods and biomaterials, Microbiology of frozen foods, Thermo physical properties of frozen foods, Freezing loads and Freezing time calculation, Innovations in freezing process

Module III

Facilities for the Cold Chain: Freezing methods and equipment, Cold store design and maintenance, Transportation of frozen foods, Retail display equipment and management, Household refrigerators and freezers, Monitoring and control of the cold chain.

Module IV



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Quality and Safety during cold chain: Quality and safety of frozen meat and meat product, Quality and safety of frozen poultry and poultry products, Safety and quality of frozen fish, shellfish, and related products, Quality and safety of frozen vegetables and fruits, Quality and safety of frozen dairy products, Quality and safety of frozen ready meals, Quality and safety of frozen bakery products, Quality and safety of frozen eggs and egg products

Module V

Packaging of Frozen Foods: Introduction to frozen food packaging, Plastic packaging of frozen foods, Paper and card packaging of frozen foods, Packaging of frozen foods with other materials, Packaging machinery

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Quality of Frozen Foods, Erickson, M.C and Hung, Y.C International Thompson Publishing, Newyork
2. Handbook of Frozen Foods, Isabel Guerrero Legaretta
3. Handbook of Frozen Food Processing and Packaging, Second Edition, Da-Wen Sun, CRC press
4. Managing Frozen foods, Kennedy Chris J CBS, New Delhi.

Course Name	Course Code	L:T:P	Credit	Semester
INDUSTRIAL SAFETY AND HAZARDS	MTB132	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Investigate different types of hazards and prevention methods.
CLO 2	Create plant layout as per site selection based on safety measures and industrial hygiene.
CLO 3	Apply prevention methods to control occupational diseases.
CLO 4	Develop a framework for management according to philosophy and need for Industrial safety keeping in view of various applicable laws and suggest Government for implementation.

B. SYLLABUS

Module I: Hazards

Chemical hazards classification. Radiation hazards and control of exposure to radiation. Types of fire and fire prevention methods. Mechanical hazards. Electrical hazards

Module II: Psychology and Hygiene

Industrial psychology Industrial hygiene. Safety in plant site selection and plant layout. Industrial lighting and ventilation. Industrial noise.

Module III: Occupational diseases and control

Occupational diseases and prevention methods. Safe housekeeping, Instrumentation for safe operation. Personal protective equipments. Safety in chemical operations and processes.

Module IV: Management

Safety organization – safety committee – safety education and training. Management process. Philosophy and need for Industrial safety. Role of Government in Industrial safety.

Module V: Laws

Factory Act. ESI Act, Environmental Act. Workment - comperation Act. Advantages of adopting safety laws.

Examination Scheme:

Components	Mid Term	Attendance	Assignment/ Project/Seminar/Quiz	Class Test	Viva	EE
Weightage (%)	15	5	10	10	10	50

Text & References:

Text:

- Guide for Safety in the Chemical laboratory second edition, Manufacturing Chemists Allocation. Van vostrand Reinhold Company, New York.
- Anonymous (1972). Guide for Safety in the Chemical Laboratory , 2nd Ed., Van Nostrand Reinhold Co., Litton Educational Publishing, Inc., New York
- Fawcett, H.H. & Wood, W.S. (1982). Safety and Accident Prevention in Chemical Operation, 2nd Ed. John Wiley and sons, New York.

References:

- Industrial Safety and Laws by Indian School of Labour Education, Madras.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Cereal Processing (Lab)	MSD 222	0:0:1	1	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the basic composition and structural parts of food grains.
CLO 2	Aware the importance of physico-chemical properties of food grains.
CLO 3	Understand the basics of milling operations for food grains
CLO 4	Identify the problems associated with milling of grains and their solution.
CLO 5	Know processing food grains into value added products.

B. List of Practical's:

1. Physico-chemical characteristics like test-weight, gluten content, etc
2. Milling of wheat
3. Milling characteristics of corn
4. Preparation of bread / test-baking
5. Preparation of buns / cakes / pizza, etc
6. Preparation of biscuits / cookies etc
7. Preparation of extruded products
8. Cooking quality of rice
9. Pre-treatment and milling of pulses
10. Extraction of oil from oilseeds
11. Preparation of breakfast cereals

EXAMINATION SCHEME:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
15	10	05	35	15	10	10



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

SUGGESTED READINGS

1. Altschul. Processed Plant Food Stuffs
2. Matz, MA. Cookie and Cracker Technology
3. Dubey, SC. Basic Baking: Science and Craft
4. Pylar, EJ. Baking Science and Technology
5. Scott. Flour Milling Process



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Food Engineering	MSD 205	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To illustrate various aspects of food engineering.
CLO 2	To develop understanding about fluid flow and its applications.
CLO 3	To understand mechanism of heat transfer in food processing
CLO 4	To explain method of freezing process.

B. SYLLABUS

Module I

Introduction - System, Thermodynamic properties, Density, Concentration, Moisture Content, Temperature, Pressure, Enthalpy, Conservation of Mass, Laws of Thermodynamics- Zeroth Law, First Law of Thermodynamics, Second Law of Thermodynamics, Heat and Work.

Module II

Heat Transfer- Systems for Heating and Cooling, Plate Heat Exchanger, Tubular Heat Exchanger, Scraped- surface Heat Exchanger, Scraped-surface Heat Exchanger, Epilogue. Thermal Properties of Food- Specific Heat, Thermal Conductivity and Thermal diffusivity. Thermal Diffusivity - Conductive Heat Transfer, Convective Heat Transfer and Radiation Heat Transfer. Microwave Heating- Dielectric Properties, Conversion of Microwave Energy into Heat, Microwave Oven, Microwave Heating of Foods.

Module III

Evaporation- Steam and its properties, vaporization, evaporation and boiling, external work and internal latent heat, Entropy and enthalpy, Types of Evaporators- Batch-Type Pan Evaporator, Natural Circulation Evaporators, Rising-Film Evaporator, Falling-Film Evaporator, Rising/Falling-Film Evaporator, Forced- Circulation Evaporator, Agitated Thin-

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Film Evaporator. Vapor Recompression Systems- Thermal Recompression, Mechanical Vapor Recompression.

Module IV

Compressors- classification of air compressors, Types of Compressed Air in Food and Beverage Production- Contact, Non-Contact High-Risk, Non-Contact Low-Risk, challenges of compressed air use in the food and beverage industry, surging, chocking and stalling.

Module V

Refrigeration- Selection of a Refrigerant, Components of a Refrigeration System- Evaporator, Compressor, Condenser and Expansion Valve, Bell-coleman cycle. Freezing Systems- Indirect Contact Systems and Direct- Contact Systems. Frozen-Food Properties - Density, Thermal Conductivity, Enthalpy, Apparent Specific Heat and Apparent Thermal Diffusivity.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. R. Paul Singh and Dennis R. Heldman, "Introduction to Food Engineering", Academic Press.
2. Yunus A Cengel, "Heat and Mass Transfer", Mc Graw Hills.
3. D.S.Kumar, "Refrigeration and Air Conditioning", S.K. Kataria & Sons.
4. D.S.Kumar, "Thermodynamics", S.K. Kataria & Sons.
5. Cengel & Boles, "Thermodynamics", Tata McGraw Hill



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Cereal Processing (Lab)	MSD 222	0:0:1	1	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the basic composition and structural parts of food grains.
CLO 2	Aware the importance of physico-chemical properties of food grains.
CLO 3	Understand the basics of milling operations for food grains
CLO 4	Identify the problems associated with milling of grains and their solution.
CLO 5	Know processing food grains into value added products.

B. List of Practical's:

1. Physico-chemical characteristics like test-weight, gluten content, etc
2. Milling of wheat
3. Milling characteristics of corn
4. Preparation of bread / test-baking
5. Preparation of buns / cakes / pizza, etc
6. Preparation of biscuits / cookies etc
7. Preparation of extruded products
8. Cooking quality of rice
9. Pre-treatment and milling of pulses
10. Extraction of oil from oilseeds
11. Preparation of breakfast cereals

EXAMINATION SCHEME:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
15	10	05	35	15	10	10



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

SUGGESTED READINGS

1. Altschul. Processed Plant Food Stuffs
2. Matz, MA. Cookie and Cracker Technology
3. Dubey, SC. Basic Baking: Science and Craft
4. Pylar, EJ. Baking Science and Technology
5. Scott. Flour Milling Process



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Flavor Chemistry and Technology	MSD 230	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the basics about essential oils, condiments, and spices.
CLO 2	Importance flavouring compounds in food industry.
CLO 3	Understand the basics of isolation and extraction of flavouring compounds.
CLO 4	Identify the legal consideration associated flavouring compounds.

B. SYLLABUS

Module I

Introduction: Status and scope of spice and flavour processing industries in India; Spices, Herbs and seasonings: sources, production, selection criteria; flavours: commercially available materials, classification on the basis of origin, physical characteristic.

Module II

Basics of flavour, smell, and taste sensation. Principal types of flavorings used in foods, natural flavoring substances, Flavour constituents from Onion, garlic, cheese, milk, meat, vegetables, fruits, Flavour constituents of wine, coffee, tea, chocolate, spices and condiments.

Module III

Nature-identical flavoring substances. Artificial flavoring substances. adulteration, Flavour emulsions, Flavours production in fermented foods, Off-flavours in foods. Flavour chemical components (buttery: Diacetyl, Acetylpropionyl, Acetoin, Banana: Isoamyl acetate, Bitter almond, Cherry: Benzaldehyde, cinnamon: Cinnamaldehyde, fruity: Ethyl propionate, etc.). Food acids their tastes and flavours (Glutamic acid salts, Glycine salts, Guanylic acid salts, acetic



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acid, malic acid etc.).

Module IV

Sensory evaluation of flavours, selection of flavourist, flavours and legal issues, Methods of flavour extraction, isolation, separation; Distillation, solvent extraction, enzymatic extraction, static headspace, dynamic headspace etc.; Flavour web and flavor profile analysis.

Module V

Spices and flavour quality evaluation: Criteria for assessment of flavour quality; identification of natural food flavours; methods of flavour evaluation (chemical, instrumental, sensory). Principles and techniques of flavour encapsulation, types of encapsulations; Factors affecting stabilization of encapsulated flavour and their applications in food industry. Legal standards for flavouring materials and flavours.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Source book of flavor by Reineccius,G, CBS.
2. Handbook of Spices by Peter K.V.2001, Woodhead Publishers,UK.
3. Food Flavours by Morton,I.D., Macleod ,A.J, AVI Publishers.
4. Spices and Condiments by Pruthi, J.S., 1976, NBT India.
5. Spice Statistics by Spices Board 2007, GOI, Cochin.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Food Rheology and Texture	MSD 231	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	to provide theoretical and practical knowledge on rheology, colorimetry, calorimetry and food microstructure in order to supply the capability for right control procedures, during formulation, processing and preservation of liquid and solid foods.
CLO 2	acquisition and application of food science and technology knowledge on the food's physical and structural properties
CLO 3	Understanding The role of rheology in food quality control and new product development

B. SYLLABUS

Module I

Food rheology: definition, importance, scope, theoretical aspects; Food texture: definition and importance; types of stress and strain and viscosity.

Module II

Relevance of rheological properties of food and determination and measuring methods: destructive and non- destructive measurements, creep recovery and stress relaxation, dynamic mechanical tests, modeling food texture: introduction, factor affecting texture of foods, models to predict texture.

Module III

Rheological properties of fluid and semi-solid food: classification, factors affecting viscosity, flow of material- Newton's law of viscosity, viscous fluids (Newtonian fluids, non-Newtonian fluids), plastic fluids (Bingham plastic, non-Bingham plastic fluids), thixotropic behaviour, fluid



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behavior in steady- shear flow: time dependent and time independent material function, viscosity measurement- capillary flow viscometers, orifice type viscometers, falling ball viscometers, rotational viscometers- concentric cylinder (coaxial rotational) viscometers, cone and plate viscometers, parallel plate viscometers, single-spindle viscometers (brookfield viscometer).

Module IV

Rheological properties of fluid food: deformation of material, viscoelastic behavior, Failure and glass transition in solid foods: failure in solid foods, glass transition of solids foods (measurement, factors affecting, importance), Texture of foods: compression, snapping bending, cutting shear, puncture, penetration, texture profile analysis, dough testing instruments.

Module V

Scientific development of rheology in food industry, practical applications of rheological concepts in food products, measuring consumer perception of texture of food, Texture analyser and Texture profile analysis.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Rao, M. A., Rizvi, S. S. H. and Datta A. K. 2005. Engineering Properties of Foods: CRC Press.
2. Heldman, D. R. (2007). Food Process Engineering: AVI Publications.
3. Rao, M. A. (2007). Rheology of Fluid and Semisolid Foods: Principles and Applications (2 ed.): Springer, USA.



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Course Name	Course Code	LTP	Credit	Semester
Advance Nanotechnology and its Applications in Food Industry	MSD 232	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Students are expected to understand the basic concepts, investigation tools, and fundamental issues of nanotechnology.
CLO 2	To understand self-assembly, scanning probe microscopy, organic/inorganic nanocomposites, DNA and protein chips.
CLO 3	To apply the nanotechnological approach in food safety and quality management

B. SYLLABUS

Module I

Basics of nanotechnology and nanostructures in food: Evolution of new technologies in the food sector, Public perception of nanotechnology food products, Nanomaterials for food applications-Nano-sized food ingredients and additives, Naturally occurring food nano substances and nanostructure.

Module II

Bioavailability - nanocrystalline food ingredients - nano emulsions - nano-engineered protein fibrils as ingredient building blocks, preparation of food matrices - concerns about using nanotechnology in food production

Module III

Nanotechnology in food processing and food safety and bio-security - Electrochemical sensors for food analysis and contaminant detection.

Module III

Nanotechnology in food production: food and new ways of food production - efficient fractionation of crops efficient product structuring - optimizing nutritional values - applications



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of nanotechnology in foods: sensing and encapsulation.

Module IV

Nanotechnology in food packaging: - physical properties of packaging materials - strength - barrier properties, light absorption - structuring of interior surfaces - antimicrobial functionality - visual indicators - quality assessment - foodsafety indication - product properties - information and communication technology - sensors - radiofrequency identification technology, risks - consumer and societal acceptance.

Module V

Nanotechnology in environmental and health effects: environmental pollutants in air, water, soil, hazardous and toxicwastes - application of nanotechnology in remediation of pollution in industrial and wastewater treatment - drinkingwater and air/gas purifications - the challenge to occupational health and hygiene, toxicity of nanoparticles, effects of inhaled nanosized particles, skin exposure to nanoparticles.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Brown, P and Stevens, K. 2006. Nanofibers and Nanotechnology in Textiles. Woodhead publication, London.
2. Jennifer K and Peter V. 2006. Nanotechnology in agriculture and food production, Woodrow Wilson International Center.
3. Lynn J., Frewer, Willehm Norde, R. H., Fischer and Kampers, W. H. 2011. Nanotechnology in the Agri-food sector, Wiley-VCH Verlag.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Processing of Foods of Plant Origin	MSD 301	4:1:0	4	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Get knowledge about post- harvest handling operations.
CLO 2	Understand various processing and preservation techniques used in food.
CLO 3	Get knowledge about processed fruit and vegetable products.
CLO 4	Understand various facts Food additives.

B. SYLLABUS

Module I

Introduction: Role and Status of Post-Harvest Technology, Fruits and vegetables as living products: Chemical composition; pre and post-harvest changes, maturity standards for storage, desirable characteristics of fruits and vegetable of processing. Pre-processing; Post harvest handling of fresh fruits and vegetables: Packaging, storage, transportation and marketing. Minimal processing.

Module II

Fruit and vegetable juices: Preparation of juice, syrups, squashes, cordials, and nectars; concentrations and drying of juice, packaging and storage and Concentrations and powders; fortified and soft drinks. Preservation by freezing: General methods for freezing of fruits and vegetables; problem relating to storage of frozen products.

Module III physical and chemical properties of packaging materials and their manufacturing process,

Dehydration of fruits and vegetables: Methods; packaging, storage, Quality control Storage of fresh fruits and vegetables: Containers: tin, glass and other packaging materials used in fruits

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and vegetables preservations. Canning and bottling; Quality of raw materials, preparation of materials, syrups and brines, effect of canning and bottling on nutritive value, spoilage of canned foods, detection and control.

Module IV

Pickles and chutneys: Preparation of various types of pickles-theory and practice; preparation of sauces and chutneys;problems relating to the shelf life of pickles and chutneys; quality control. Tomato products: Preparation of various tomato products, food standards and quality control. Pectin: Raw materials; processes and uses of pectin; products based on pectin manufacture and quality control.

Module V

Preservatives and additives used in fruit and vegetable preservation, Fermented fruit beverages (wine and vinegar). General methods of preparation, food standards and quality control. Utilization of waste from fruit and vegetables processing plant, Tea, Coffee and Cocoa Production and Manufacturing Technology of nonalcoholic beverages Practical Preparation of tomato products (Sauces, Soup, ketch up,) Preparation of marmalade, Pickles, Jam, Jelly and fruit candy. Determination of pectin and chemical preservatives in fruits and vegetables products.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Srivastava R.P. and Kumar S. Fruit and vegetable preservation: principles and practices. CBS publishers.
2. Morris, TN. Principles of Fruit Preservation. Biotech Books, Delhi.
3. Pantastico, E. B. Post Harvest Physiology, Handling and Utilization of Tropical and



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Subtropical Fruits and Vegetables. AVI Publishing Co. Inc, Westport.

4. Rydstm Heele, S, Post Harvest Physiology and Pathology of Vegetables. Marcel Dekker.



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Course Name	Course Code	LTP	Credit	Semester
Novel Food Packaging Technology	MSD 302	2:0:0	2	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Explain various through in-class discussions, electronic simulations and exam questions.
CLO 2	Communicate clearly about different type of packaging material and their functions, through independent written assignments and exam questions.
CLO 3	Appreciate the contributions of packaging material in increasing the shelf life of food products, through clicker questions, class discussion and exam questions.

B. SYLLABUS

Module I

Role of packaging in the food chain, active and intelligent packaging techniques, current use of novel packaging techniques, oxygen, ethylene and other scavenging technologies.

Module II

Antimicrobial food packaging and factors affecting effectiveness of antimicrobial packaging, Non-migratory bioactive polymers (NMBP), Time-temperature indicators, use of freshness indicators in packaging.

Module III

Modified atmosphere packaging (MAP), Novel MAP applications for fresh prepared produce, effect of MAP on nutritional quality and microbial safety of MAP, Novel packaging and particular products, Legislative issues relating to active and intelligent packaging, Recycling packaging materials, Green plastics for food packaging.



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EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. A Raija 2003. Novel Food Packaging Techniques. Woodhead publishing in Food Science and TechnologyCRC Press.
2. Frank AP and Heather YP 1992. A Handbook of Food Packaging. Springer Science.



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Course Name	Course Code	LTP	Credit	Semester
Food Safety and Quality Management	MSD 303	3:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding Food safety and quality parameter and management.
CLO 2	Develop in depth knowledge of food safety standards and quality management in food system
CLO 3	Knowledge of Indian and global food safety scenario

B. SYLLABUS

Module I

Introduction: Concept of food safety and quality, Food adulteration and contamination, Responsibility of food safety. Indian Scenario of Food Safety, Recent food safety issues at national and international level

Module II

Food safety Hazards and Food borne diseases: Food safety hazards (Biological, Chemical and Physical Hazards), Food borne diseases, Food spoilage, food poisoning, food infections, prevention of Food safety hazards through Hazards Analysis and Critical Control Point (HACCP) and Good Practices

Module III

Food safety regulation in India : Introduction to Food Safety Act - 2006 and Food safety and Standards Authority of India, Food safety standards regulations 2011, Food Surveillance, Food Recall, PFA, FPO, MMPO, MPO, BIS, AGMARK standard.

Module IV

International food safety regulatory framework: International Organization for Standardization

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(ISO), Codex, ISO standards (ISO 22000, 9000, 14000), US Food and Drug Administration and Food Safety at European Union, Harmonization of Food Safety Regulations

Module V

Initiatives of FSSAI: Eat Right India, FoSTaC, Food Fortification, Detect Adulteration with Rapid Test (DART), Clean Street Food, BHOG (Blissful Hygienic Offering to God), Food Safety on Wheels, Food Smart Consumer, Codex, Diet for Life etc.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Make it safe: a guide to food safety, CSIRO Food and Nutritional Sciences Publisher.
2. Richard Lawley, Laurie Curtis & Judy Davis. (2008). The Food Safety Hazard Guidebook. RSC Publisher. Cambridge, UK.
3. Cynthia A. Roberts (2001). The food safety information handbook. CRC. New, Delhi.
4. <https://fssai.gov.in/>



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Advance Dairy Technology	MSD 304	3:1:0	4	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Describe the physical and chemical properties of milk and milk products
CLO 2	Describe the different treatments of milk such heating, homogenization, centrifugation, agitation filtration, concentration, and fermentation
CLO 3	Prepare/manufacture different dairy products such as cream, butter, ghee, yoghurt, cultured milk, ice cream and cheese using simple and industrial techniques

B. SYLLABUS

Module I

Present status of milk & milk products in India and abroad; market milk. -Composition of milk of various species, quality evaluation and testing of milk, procurement, transportation and processing of market milk. Physicochemical properties of milk. Pasteurization, sterilization, homogenization and UHT processing of milk. Cleaning & sanitization of dairy equipment, Special milks such as flavoured, sterilized, recombined & reconstituted toned & double toned.

Module II

Membrane processing of milk: types of membranes, principle of operation, applications of reverse osmosis, ultrafiltration and microfiltration. Technology of cream production: Cream separator; Ripening of cream; Types of butter, composition and production methods, nutritive value, defects - their causes and prevention. Production of butter, oil / ghee. Technology of milk powders (WMP, SMP): composition, nutritive value, process of manufacture, defects - their causes and prevention, Instantization of milk powder.

Module III

Technology of Milk products: Cheese- classification, composition, nutritive value, process of



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manufacture of cheddar, mozzarella, cottage and processed cheese, defects - their causes and prevention. Frozen milk products (Ice cream) - composition, nutritive value, process of manufacture, defects (their causes and prevention). Indigenous milk products: khoa, rabri, channa, paneer, shrikhand, milk-based sweets etc. Utilization of milk industry by- products- importance/need and food applications.

Module IV

Technology of fermented milk products: Methods for manufacture, packaging, storage and marketing, i.e., dahi, cultured butter milk, yoghurt, acidophilus milk, kumiss, kefir, etc.

Module V

Milk and milk products standards and legislations in India, Grading of milk and criterion of grading. Dairy plant sanitation- hygiene in dairy industry, different types of cleansing and sanitizing agents, their applications, cleaning systems (cleaning in place, central cleaning system, self-contained cleaning system). Newer concepts in dairy products- cream powder, sterilized cream, butter spread, butter powder, cheese spread, caseinates, WPC, lactose powder.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Sukumar, De. 1980. Outlines of Dairy Technology: Oxford University Press, Delhi.
2. Byron, H. W., Arnold, H. J. and John, A. A. 1987. Fundamentals of Dairy Chemistry (2nd ed.): CBS, Delhi.
3. Wong, N. P. 1988. Fundamentals of Dairy Chemistry (3rd ed.): VNR, New York.



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Course Name	Course Code	LTP	Credit	Semester
Processing of Foods of Plant Origin (Lab)	MSD 321	0:0:1	1	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Get knowledge about post- harvest handling operations.
CLO 2	Understand various processing and preservation techniques used in food.
CLO 3	Get knowledge about processed fruit and vegetable products.

B. List of Practical's:

1. Canning of fruits and cut-out test for canned fruits
2. Canning of vegetables and cut-out test for canned vegetables
3. Dehydration of fruits / vegetables and evaluation of dried products
4. Freezing of fruits / vegetables and evaluation of frozen products
5. Preparation of jam / jelly / marmalade / preserve and its evaluation
6. Preparation of fruit beverage and its evaluation
7. Preparation of fruit chutney / pickle and its evaluation
8. Preparation and evaluation of tomato sauce / ketchup
9. Testing of vinegar
10. Minimal processing of fruits / vegetables.
11. Preparation of cheese, candy and preserve
12. Visit to food processing industry

EXAMINATION SCHEME:

IA			EE				
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Spotting	Experiment/ Practical	Record	Viva
15	10	05	35		15	10	10



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SUGGESTED READINGS

1. Food Preservation and Processing, Manoranjan Kalia & Sangita Sood.
2. Food Science, N. N. Potter, C B S Publishers & Distributors.



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Course Name	Course Code	LTP	Credit	Semester
Novel Food Packaging (Lab)	MSD 322	0:0:1	1	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Explain various physical and chemical properties of packaging materials
CLO 2	Communicate clearly about different type of packaging material and their functions,
CLO 3	Appreciate the contributions of packaging material in increasing the shelf life of food products

B. List of Practical's:

1. Identification of different type of packaging material and testing of properties of different packaging materials (paper, plastic, biodegradable, glass and metal)
2. Study of symbols and labels used on food packages and study of intelligent packaging
3. Vacuum packaging and nitrogen filled packaging
4. Form-fill- seal packaging
5. Retort pouching
6. Determination of changes in packaged foods
7. Development of biodegradable package
8. Preparation and application of edible coatings
9. Comparative evaluation of different packages for foods
10. Estimation of shelf life of food under different packaging materials.

EXAMINATION SCHEME:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
15	10	05	3 5	15	10	10



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SUGGESTED READINGS

1. Sukumar, De. 1980. Outlines of Dairy Technology: Oxford University Press, Delhi, India
2. Rangappa, K. S. 1975. Indian Dairy Products. Asia Publishing House, Bombay, India



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Course Name	Course Code	LTP	Credit	Semester
Advance Dairy Technology Lab	MSD 333	0:0:1	1	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Acquaintance with knowledge on processing of milk in variety of milk products and to understand the chemistry of milk and milk products.
CLO 2	Knowledge about the preservation of milk through high temperature treatment.
CLO 3	Hands on proximate analysis of milk and milk products.

B. List of Practical's:

1. Sampling of milk, platform tests
2. Determination of specific gravity, milk fat, SNF and TS percentage in milk
3. Cream separation and standardization of milk and cream
4. Preparation of toned/humanized/fortified/reconstituted/flavoured milk
5. Preparation and grading of butter
6. Preparation of cheese
7. Preparation of channa and paneer
8. Preparation of Khoa / ghee
9. Preparation of ice-cream
10. Preparation of indigeneous milk product - shrikhand / kalakand / milk-cake
11. Visit to a dairy plant producing condensed milk / milk powder

EXAMINATION SCHEME:

IA			EE			
Class Test (Practical Based)	Mid Term Viva	Attendance	Major Experiment	Minor Experiment/Spotting	Practical Record	Viva
15	10	05	35	15	10	10



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SUGGESTED READINGS

1. Sukumar, De. 1980. Outlines of Dairy Technology: Oxford University Press, Delhi, India
2. Rangappa, K. S. 1975. Indian Dairy Products. Asia Publishing House, Bombay, India
3. Marshall, R.T. 1992. Standard Methods for the determination of Dairy Products. 16th ed. Publ. American Public Health Association.
4. https://old.fssai.gov.in/Portals/0/Pdf/Draft_Manuals/MILK_AND_MILK_PRODUCTS.pdf



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Course Name	Course Code	LTP	Credit	Semester
Food Business Management	MSD 330	3:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstrate knowledge of the laws that relate to the use of materials in foods and the operation of food plants and the federal, state and local level
CLO 2	Identify and apply the principles of food plant operation and management
CLO 3	Manage operations and resources in a food processing plant

B. SYLLABUS

Module I

Introduction: Introduction to marketing and management. Marketing concepts and marketing systems and its functions. Link between agriculture and food industry, Introduction to marketing boards, co-operatives and others. Market liberalization, its role, strategies, impact and economics.

Module II

Marketing management, strategies, planning and control: Introduction to strategy, policy, planning and control. Marketing planning process, monitoring and evaluation. International Marketing and International Trade; Composition & direction of Indian exports; International marketing environment; Exports-Direct exports, indirect exports, Licensing, Joint Ventures, Direct investment & internationalization process; Deciding marketing Programme; Product, Promotion, Price, Distribution Channels; Deciding the Market Organization; World Trade Organization (WTO).

Module III

New product development and buyer behavior: Need, objectives and process for new product development. Factors impact buyer behavior and market segmentation. Commodity and its marketing, stages and challenges in commodity marketing, product and its definitions, product line, brand, product management models.



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Module IV

Pricing management, channel management and physical distribution: Objectives, strategies, types and decisions of commodity, breakeven analysis, pricing, cost, revenue and supply relationship. Channel management, middleman and their role, distribution channels, concept and its technological advancements. Warehouse, inventory, logistics and transport management.

Module V

Marketing communication, research, cost and margins: Nature, objectives and factors of marketing communication. Advertisement, sales promotion, sales force, agents, promotions and budget for communication of commodity. Purpose and steps involved in market research. Objectives and structure of marketing cost and margins.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. David D. Van Fleet, Ella W. Van Fleet, and George J. Seperich. (2014), Agribusiness: Principles of Management. Cengage Learning, New York.
2. Freddie Barnard, Jay Akridge, Frank Dooley, John Foltz (2012). Agribusiness Management. Fourth edition, Routledge, New York.
3. I.M. Crawford. (1997). Agricultural and food marketing management. Food and Agriculture Organization of the United Nations. Rome.



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

Course Name	Course Code	LTP	Credit	Semester
Food Toxicology	MSD 331	3:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Regarding the most important contaminants in food, toxicology of various food additives and contaminants and their sources.
CLO 2	Explain what food safety involves and which contaminants are of relevance.
CLO 3	Explain risk analysis, assessment and management related to food safety and which organizations are involved in these processes nationally and internationally.

B. SYLLABUS

Module I

Definition of toxicology and food toxicology, scope and diversity of food toxicology, Biological factors that influence toxicology, General principle of toxicology: phases of toxicological effects and dose-response relationship, Types of membrane transport. Categories of toxicology. classification of food toxicants, methods used in safety evaluation-risk assessments.

Module II

Toxicants and allergens in foods derived from plants, animals, marine, algae & mushroom; Microbial toxins; Food Poisoning; Food borne infections and disease. Factors that influence toxicity: Diet and Biotransformation: effect of micronutrient changes; effect of macronutrient changes, Gender and Age, Species, Potential toxic effects of normal dietary constituents

Module III

Determination of toxicants in foods: Qualitative and Quantitative analyses of toxicants in foods; Biological determination of toxicants: acute toxicity, genetic toxicity, subchronic toxicity and chronic toxicity

Module IV



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Toxicants found in the foods with their adverse effects, mode of action and clinical symptoms; Bacterial toxins; animal and plant toxins; toxicity of nutrients; toxins from fungi adverse effects; mode of action and clinical symptoms;; food borne viruses and factors that increase the risks of food borne infections; sea food toxins and poisoning, Food toxicology aspects of pesticides and industrial contamination, food additives: colour, flavour, preservatives, antioxidants and sweeteners agents, Toxicants formed during food processing (nitrosamines, acrylamide, benzene, dioxins and furans; persistent organic pollutants).

Module V

Epidemiology in food and nutritional toxicology, Food safety assessment: compliance with regulations, emerging food safety issues in a modern world

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

1. Deshpande SS.2002. Handbook of food toxicology. CRC Press.
2. Shibamoto T and Bjeldanes LF. 2009. Introduction to Food Toxicology Second Edition. Food Science and Technology International Series.
3. Stanley T Omaye. 2004. Food and Nutrition Toxicology. CRC Press.

MAJOR PROJECT

Course Code	L	T	P	Credit	Semester
BSI660	0	0	0	15	VI

Course Learning Outcome:

CO1. Identify the proposed problem

CO2. Develop a functional application based on the software design

CO3. Apply to code, debugging, and testing tools for implementation

CO4. Prepare the proper documentation for report writing and oral presentation.

GUIDELINES FOR PROJECT FILE

Research experience is as close to a professional problem-solving activity as anything in the curriculum. It provides exposure to research methodology and an opportunity to work closely with a faculty guide. It usually requires the use of advanced concepts, a variety of experimental techniques, and state-of-the-art instrumentation.

Research is genuine exploration of the unknown that leads to new knowledge, which often warrants publication. But whether or not the results of a research project are publishable, the project should be communicated in the form of a research report written by the student.

Sufficient time should be allowed for satisfactory completion of reports, taking into account that initial drafts should be critiqued by the faculty guide and corrected by the student at each stage.

The File is the principal means by which the work carried out will be assessed and therefore great care should be taken in its preparation.

In general, the File should be comprehensive and include:

- A short account of the activities that were undertaken as part of the project;
- A statement about the extent to which the project has achieved its stated goals.
- A statement about the outcomes of the evaluation and dissemination processes engaged in as part of the project;
- Any activities planned but not yet completed as part of the project, or as a future initiative directly resulting from the project;
- Any problems that have arisen that may be useful to document for future reference.

Report Layout

The report should contain the following components:

1. File should be in the following specification:

- A4 size paper
- Font: Arial (10 points) or Times New Roman (12 points)
- Line spacing: 1.5
- Top & bottom margins: 1 inch/ 2.5 cm
- Left & right margins: 1.25 inches/ 3 cm

2. Report Layout: The report should contain the following components

Front Page

Table of Contents

Acknowledgement
Student Certificate
Company Profile
Introduction
Chapters
Appendices
References / Bibliography

➤ **Title or Cover Page or Front Page**

The title page should contain the following information: Project Title; Student's Name; Course; Year; Supervisor's Name.

➤ **Table of Contents**

Titles and subtitles are to correspond exactly with those in the text.

➤ **Acknowledgement**

Acknowledgment to any advisory or financial assistance received in the course of work may be given.

➤ **Student Certificate**

Given by the Institute.

➤ **Company Certificate & Profile**

This is a certificate, which the company gives to the students. A Company Profile corresponds to a file with company-specific data. Company data can be stored there and included in a booking when needed.

➤ **Introduction**

Here a brief introduction to the problem that is central to the project and an outline of the structure of the rest of the report should be provided. The introduction should aim to catch the imagination of the reader, so excessive details should be avoided.

➤ **Chapters**

All chapters and sections must be appropriately numbered, titled and should neither be too long nor too short in length.

The first chapter should be introductory in nature and should outline the background of the project, the problem being solved, the importance, other related works and literature survey.

The other chapters would form the body of the report. The last chapter should be concluding in nature and should also discuss the future prospect of the project.

➤ **Appendices**

The Appendix contains material which is of interest to the reader but not an integral part of the thesis and any problem that have arisen that may be useful to document for future reference.

➤ **References / Bibliography**

This should include papers and books referred to in the body of the report. These should be ordered alphabetically on the author's surname. The titles of journals preferably should not be abbreviated; if they are, abbreviations must comply with an internationally recognised system.

ASSESSMENT OF THE PROJECT FILE

Essentially, marking will be based on the following criteria: the quality of the report, the technical merit of the project and the project execution. Technical merit attempts to assess the

quality and depth of the intellectual efforts put into the project. Project execution is concerned with assessing how much work has been put in.

The File should fulfill the following *assessment objectives*:

1. Range of Research Methods used to obtain information

2. Execution of Research

3. Data Analysis

- Analyze Quantitative/ Qualitative information
- Control Quality

4. Draw Conclusions

Examination Scheme:

Components	MRP	V	S	FP	R
Weightage (%)	20	20	20	20	20

MRP – Mid Report Presentation, V – Viva, S – Synopsis, FP – Final Presentation, R - Report

BEHAVIOURAL SCIENCE – IV (RELATIONSHIP MANAGEMENT)

Course Code: BSS 404

CreditUnits: 01

Course learning outcomes (CLO)

At the successful completion of this course you (the student) would be able to:

1. Identify the basis of interpersonal relationship.
2. Describe the importance of interpersonal relationship and bridging individual differences.
3. Recognize the development and strategies for effective interpersonal relationship.
4. Explain and apply the theories of relationship concepts of impression management.

Course Contents:

Module I: Understanding Relationships

Importance of relationships

Role and relationships

Maintaining healthy relationships

Module II: Bridging Individual Differences

Understanding individual differences

Bridging differences in Interpersonal Relationship – TA

Communication Styles

Module III: Interpersonal Relationship Development

Importance of Interpersonal Relationships

Interpersonal Relationships Skills

Types of Interpersonal Relationships

Module IV: Theories of Interpersonal Relationships

Theories: Social Exchange, Uncertainty Reduction Theory

Factors Affecting Interpersonal Relationships

Improving Interpersonal Relationships

Module V: Impression Management

Meaning & Components of Impression Management

Impression Management Techniques (Influencing Skills)

Impression Management Training-Self help and Formal approaches

Module VI: End-of-Semester Appraisal

Viva based on personal journal

Assessment of Behavioural change as a result of training

Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
Weightage (%)	20	05	20	30	25

Text & References:

- Vangelist L. Anita, Mark N. Knapp, Inter Personal Communication and Human Relationships: Third Edition, Allyn and Bacon
- Julia T. Wood. Interpersonal Communication everyday encounter
- Simons, Christine, Naylor, Belinda: Effective Communication for Managers, 1997 1st Edition Cassell
- Goddard, Ken: Informative Writing, 1995 1st Edition, Cassell
- Harvard Business School, Effective Communication: United States of America
- Foster John, Effective Writing Skills: Volume-7, First Edition 2000, Institute of Public Relations (IPR)
- Beebe, Beebe and Redmond; Interpersonal Communication, 1996; Allyn and Bacon Publishers.



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RAJASTHAN

AMITY INSTITUTE OF MICROBIAL TECHNOLOGY (AIMT)

Course Name	Course Code	LTP	Credit	Semester
Bio-entrepreneurship	MMC 213	3:0:0	3	2

A. Course Learning Outcomes (CLO)

CLO 1	To develop entrepreneurship skills in the students
CLO 2	To assess the startup project ideas in life sciences
CLO 3	To study the market research, marketing strategies for enterprise fundings

B. Syllabus

Module-I: - Introduction

Entrepreneurship: Concept - Evolution - Theories, Role in Economic Development, and entrepreneurial traits.

Module-II: - Market Research

Market Study - Questionnaire Design / Survey, potential Consumers & Competitors, Market Strategy Development.

Module-III: - IPR & Regulatory Agencies

Introduction to IPR, Trademarks, Copywrites, Trade Secrets. Protection of IPR. Technology Transfer & Commercialization, Licensing Deal, Relevant National & International Agencies.

Module-IV: - Resource Management

Government & Non-Government schemes, fund raising, Bank Loans & Asset Values, Strategic Partners & Angel Investors. Business Incubation Centers.

Module-V: - Project Management & Start up Methodology

Procedure and Legal Formalities for startup, Project drafting, Bio - business modeling, new venture creation, pitching, Recruitment of relevant expertise.

E - Learning Links:

http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000023MA/P001403/M016027/ET/1465203437Module-7Entre.pdf

Examination Scheme:

Components	CT	Assignment	Project	Case Study	Attendance	EE
Weightage (%)	15	10	10	10	5	50

Text and Reference Books: -

- 1 Drucker, P. Innovation and Entrepreneurship. 2Rev Ed edition. ButterworthHeinemann, 2010.
- 2 Hopkins, Bruce. A Legal Guide to Starting and Managing a Nonprofit Organization. 3rd edition. Wiley, 2000.
- 3 Jensen, Bill. Simplicity: The New Competitive Advantage in a World of More, Better, Faster. Perseus, 2001.
4. P. Saravanavelu, "Entrepreneurship Development", Eskapee Publications.
- 5 N.P. Srinivasan & G.P.Gupta, "Entrepreneurship Development", Sul tanchand & Sons.
- 6 Barringer M.J. "Entrepreneurship", Prentice-Hall, 1999
- 7 Robert D. Hisrich, Michael P. Peters, "Entrepreneurship Development", Tata McGraw Hill
8. Vasanth Desai, "Dynamics of Entrepreneurial Development and Management", Himalayas Publishing House

HISTORY AND SCHOOLS OF PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
HISTORY AND SCHOOLS OF PSYCHOLOGY	MCP101	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	You will be able to describe various schools of psychology and their contribution in evolving psychology as a science.
CLO2	You will be able to explain strength and weaknesses of work done by each school and their contributors
CLO3	You will be able to compare the work of different schools and their contributors.
CLO4	You will be able to apply the psychological theories to distant problems of daily life

B.SYLLABUS

Course Objective:

The paper on System and Theories gives a brief history of psychology and the developments within the discipline.

Course Contents:

Module I: Introduction – 7 hours

History of Psychology, Psychology as a Science

Module II: Structuralism – 7 hours

Subject Matter of Psychology
Methods of Studying Human Behaviour

Module III: Functionalism – 7 hours

Subject Matter of Psychology
Methods of Studying Human Behaviour

Module IV: Associationism-Thorndikian Associationism, Watsonian Behaviorism – 7 hours

Subject Matter of Psychology
Methods of Studying Human Behaviour

Module V: Phenomenology and Gestalt – 8 hours

Classical Psychoanalysts – Sigmund Freud, Alfred Adler and Carl Jung
Continuity theory

Subject Matter of Psychology
Methods of Studying Human Behaviour

Text:

Leahy, T. H. (1991). *A history of modern psychology*. New York: Prentice Hall.

Wolman, B.B. (1979). *Contemporary theories and systems in psychology*. London: Freeman Book Company.

References:

Chaplin, J.P., & Krawice, T.S. (1979). *Systems and theories in psychology*. New York: Holt Rinechart & Winston.

Marx, M.H., & Hillix, W.A. (1986). *Systems and theories in psychology*. New York: McGraw Hill.

Paranj, A.C. (1994). *Meeting east and west*. New York: Plenum Press.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class;
MA- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

PERSONALITY THEORIES

Course Name	Course Code	LTP	Credit	Semester
PERSONALITY THEORIES	MCP102	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Demonstrate in-depth knowledge in the major concepts and theories of personality.
CLO2	Analyse socio cultural influences on the personality development.
CLO3	Compare and contrast traditional biological / evolutionary approaches to the human subject with modern social psychological approaches of personality.
CLO4	Critically examine and reflect on personality problems with reference to diverse socio cultural contexts.

B.SYLLABUS

Course Objective:

This course enables students to become familiar with the major theories and traditions related to the study of personality and personal growth. It further enables the student to articulate the underlined themes, methodology and assumption of each theory to enhance understanding of personality and behaviour.

Course Contents:

Module I: Introduction to Personality– 7 hours

Nature of personality theory: Present status

Theory in Broader perspective

Grouping among theories: Different perspectives on personality

Module II: The Dispositional Perspective– 7 hours

Type and trait approaches to personality:

Shelley, Kretschmer, Allport, Cattell & Eysenck, Kobasa.

Alternative Five factor Model.

Module III: Psychoanalytic Approach– 8 hours

The Freudian Theory of personality

Topographic model, structural model.

Instincts, tension reduction; defense mechanism.

Alfred Adler: Striving for superiority; parental influence on personality development, birth order

Carl Jung: Collective Unconscious

Erik Erikson: Concept of Ego, Stages of Personality Development

Harry Stock Sullivan: Personifications

Module IV: Humanistic & Phenomenological Perspectives– 7 hours

Maslow's Hierarchy of Motives

Roger's Person Centered Theory

May's Existential Analytic tradition

Module V: Behavioural/ Cognitive Approach– 7 hours

Skinner’s Radical Behaviours

Albert Bandura’s Social-Cognitive theory

Rotter’s expectancy reinforce model

Kelly’s theory of personal constructs

Text:

Allport, G.W. (1961). *Pattern & growth in personality*. New York: Halt

Hall, G.S., & Lindzey, G. (1985). *Theories of personality* (3rd ed.). New Delhi: Wiley Eastern.

References:

Eysenck, H.J. (1981). *Model of personality*. New York: Springer & Verlog.

Cattell, R.B., & Klings, P. (1977). *The scientific analysis of personality & motivation*. London: Academic Press.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

RESEARCH METHODOLOGY

Course Name	Course Code	LTP	Credit	Semester
RESEARCH METHODOLOGY	MCP103	2:1:0	3	1

A. COURSE LEARNING OUTCOMES

CLO1	Develop conceptual clarity of the research methodology and researches in applied fields of psychology and its significance and importance to the students.
CLO2	Learn different techniques of sample selection
CLO3	Learn to process data through parametric and non parametric statistical analysis of quantitative and qualitative data and various research designs.
CLO4	Selection of statistical methods, Interpretation of the data
CLO5	Writing a research report

B. SYLLABUS

Course Objectives: Through this course student should be able to:
 Know about the basics of scientific research in applied psychology.
 Learn the statistical rigors in designing research and processing data.
 Apply basic framework of research process, research designs and techniques.

Course Contents:

Module I: Introduction to research basics and ethics – 8 hours

Meaning, purpose and dimensions of research. Objectives, Types, Approaches and Significance of Research. Methods Vs Methodology. Various research methods. Problems encountered by researchers in India. Ethical problems and principles in Research.

Module II: Components and Process of Research – 7 hours

Nature of data, Defining and stating a research problem, Criteria of a good problem, Meaning and Types of Hypothesis, Criteria, formulation and stating a hypothesis, hypothesis testing.

Module III: Research Traditions – 7 hours

Functions and sources in Reviewing literature. Characteristics of Parametric and Non-Parametric Statistics. Applications of psychological testing in various settings.

Module IV: Sampling – 7 hours

Meaning and Types of sampling, Sampling procedures, Sample size and other attributes, Merits and Limitations of sampling.

Module V: Methods and Report writing – 7 hours

Selection of statistical methods, Interpretation of the data. Writing a Research Report.

Text:

Kerlinger, F. N. (1973). *Foundations of behavioral research*. USA: Holt, Rinehart & Winston.
 Chadha, N. K. (2009). *Applied psychometry*. New Delhi, India: Sage.

References:

Bridget, S., & Cathy, L. (Eds.) (2008). *Research methods in the social sciences*. New Delhi, India: Vistaar Publication.
 Gliner, J. A., & Morgan, G. A. (2000). *Research methods in applied settings: An integrated approach to design and analysis*. Mahwah, NJ: Lawrence Erlbaum.
 Howell, D. C. (2002). *Statistical methods for psychology* (5th ed.). Duxbury, California: Thomson Learning.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class;
MA- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

PSYCHOLOGICAL MEASUREMENT AND STATISTICS

Course Name	Course Code	LTP	Credit	Semester
PSYCHOLOGICAL MEASUREMENT AND STATISTICS	MCP104	2:1:0	3	1

A. COURSE LEARNING OUTCOMES

CLO1	Gain a basic awareness of the underlying concepts regarding Statistics.
CLO2	Gain knowledge on the concepts of testing, assessment and measurement
CLO3	Know Test construction and standardization
CLO4	Learn to calculate and use parametric statistics: inferential statistics.
CLO5	Learn to calculate and use non-parametric statistics: inferential statistics.

B.SYLLABUS

Course Objective: The course will enable the students to understand the concepts and principles of psychological testing and evaluation and the use of standardized instruments to examine how assessment has influenced our lives and how clinical assessment can significantly affect the clients with whom we work. It will also help you to interpret and draw conclusions based on the scores and results obtained when these psychological measurement are administered in group setting using appropriate statistics.

Course Contents:

Module I: Introduction– 7 hours

History of Testing and Assessment, Nature and significance of Measurement
Distinction between assessment and measurement, Levels of measurement.

Module II: Test Construction– 7 hours

Classification and characteristics of psychological tests
Steps to develop psychological test, Ethical consideration
Item analysis: item difficulty, item discrimination, item response theory

Module III: Test Standardization– 7 hours

Validity, Reliability, Various methods of estimating reliability and Validity
Test Norms- its types, development of norms

Module IV: Descriptive statistics– 7 hours

Definition and purpose of psychological statistics
Measures of central tendency and variability; Correlation: product-moment, point-biserial, phi, biserial, tetrachoric, spearman's correlation coefficients.

Module V: Inferential Statistics– 8 hours

Probability distribution and normal curve; Levels of significance
Type – I and Type – II errors, one-and two-tailed tests;
Parametric and non-parametric tests of significance;
Statistical analysis: t test (independent sample, dependent sample Analysis of variance of single - sample study: testing a sample mean by t-test, Statistical analysis of two-sample experiments: the independent samples t-test, the dependent-sample test; Statistical analysis of complex experiments: analysis of variance – F test (computing and interpreting one-way, two-way ANOVA and their logic); MANOVA and Post-hoc tests.

Texts:

Anastasi, A., (1988), Psychological Testing; 6th Ed. New York: Mc Millan Publishing Company.
Kerlinger, F. N., (1933), Foundation of Behavioural Research; New Delhi: Surjeet Publication.

References:

Freeman, F.S. (1962). Theory and Practice of Psychological Testing; New Delhi: Oxford IBH.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

PRACTICUM-III

Course Name	Course Code	LTP	Credit	Semester
PRACTICUM-III	PSY320	0:0:4	2	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	To enable students to understand and apply the general concepts of psychology through experiments & psychological tests.
CLO2	Each students are required to perform & write any 06 practical enlisted.

B.SYLLABUS

Course Objective:

This paper will enable students to understand and apply the general concepts of psychology through experiments & psychological tests.

The students are required to perform & write any 06 practical enlisted.

List of Experiments/Tests:

Personality test (NEO-FFI)
SCT
Suicidal Ideation
General Health Questionnaire
Mental Health Assessment
Old age fears
Life satisfaction
Adjustment scale
Home Environment Scale

Examination Scheme:

A student will be examined in any one experiment/test as assigned to him. Classification of marks will be as follows:

Practical (Continuous)	Viva Voce	Record Book	Total
40 Marks	30 Marks	30 Marks	100 Marks

BEHAVIOURAL SCIENCE - II (PROBLEM SOLVING AND CREATIVE THINKING)

Course Code: BSS 204

CreditUnits: 01

Course Objective:

To enable the students:
Understand the process of problem solving and creative thinking.
Facilitation and enhancement of skills required for decision-making.

Course Contents:

Module I: Thinking as a tool for Problem Solving

What is thinking: The Mind/Brain/Behaviour
Critical Thinking and Learning:
Making Predictions and Reasoning
Memory and Critical Thinking
Emotions and Critical Thinking
Thinking skills

Module II: Hindrances to Problem Solving Process

Perception, Expression, Emotion, Intellect, Work environment

Module III: Problem Solving

Recognizing and Defining a problem, Analyzing the problem (potential causes), Developing possible alternatives, Evaluating Solutions, Resolution of problem, Implementation,
Barriers to problem solving:
Perception,
Expression
Emotion
Intellect
Work environment

Module IV: Plan of Action

Construction of POA, Monitoring, Reviewing and analyzing the outcome

Module V: Creative Thinking

Definition and meaning of creativity, The nature of creative thinking, Convergent and Divergent thinking, Idea generation and evaluation (Brain Storming), Image generation and evaluation, Debating, The six-phase model of Creative Thinking: ICEDIP model

Module VI: End-of-Semester Appraisal

Viva based on personal journal
Assessment of Behavioural change as a result of training
Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
Weightage (%)	20	05	20	30	25

Text & References:

- Michael Steven: How to be a better problem solver, Kogan Page, New Delhi, 1999
- Geoff Petty: How to be better at creativity; Kogan Page, New Delhi, 1999
- Richard Y. Chang and P. Keith, Kelly: Wheeler Publishing, New Delhi, 1998.
- Phil Lowe Koge Page: Creativity and Problem Solving, New Delhi, 1996
- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 3, Management (1996); Pfeiffer & Company

- Bensley, Alan D.: *Critical Thinking in Psychology – A Unified Skills Approach*, (1998), Brooks/Cole Publishing Company.

COGNITIVE PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
COGNITIVE PSYCHOLOGY	MCP105	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Understand and differentiate concepts of formation, attention, and perception
CLO2	Gain knowledge on the concepts of testing, assessment and measurement
CLO3	Understand the concept of learning, language, and memory
CLO4	Apply the knowledge of intelligence, language and decision making

B.SYLLABUS

Course Objective: The objective of this course is to:

Study the concept of cognition and its application in cognitive psychology.

Facilitate the students about concept formation, attention and perception.

Develop the cognitive and problem solving skills in themselves and others.

Course Contents:

Module I: Introduction and Sensation – 8 hours

Origin of cognitive psychology, Methods in cognitive psychology, Current status of cognitive psychology. Sensation; Meaning and Types, Sensation and Cognition.

Module II: Attention & Perception – 7 hours

Attention, Determinants of Attention, Types and Theories of attention. Perception; Types, Cues, Theories of perception: pattern recognition, disruptions of perception. Illusions, Delusions and Hallucinations.

Module III: Learning, Memory and forgetting – 7 hours

Learning: Meaning, Nature, Types and Theories. Memory: Types, Theories and models of memory. Methods of Retrieval. Forgetting: Theories of forgetting.

Module IV: Language, Thinking and problem solving – 7 hours

Concept formation and Theories. Structure of language, language comprehension and production, language and cognition. Thinking: Convergent & divergent thinking, creative and critical thinking. Problem solving: methods of solution, hindrances.

Module V: Intelligence, Reasoning and Decision making – 7 hours

Intelligence: Meaning, Nature, Types, Theories. Creativity

Reasoning: Inductive & deductive reasoning, patterns and approaches, conditional reasoning, syllogisms.

Decision making: Basic concepts, models and theories, algorithms, heuristics.

Text:

Solso, R.L. (2004). *Cognitive Psychology*. (6th ed.). Delhi: Pearson Education.

References:

Mark, L.E. (1978). *Unity of the senses*. London: Academic Press

Newell, A., & Simon H. (1972). *Human problem solving*. New Jersey: Prentice Hall.

Posner, M. (1989). *Foundations of cognitive science*. London: MIT Press

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; CT-Class Test; H-Home Assignment; P-Presentation; V-Viva; Q-Quiz; FC- Flip class; MA- Movie Analysis; CS- Case study; DP- Discursive paper; A-Attendance; EE-End Session Exam

NEUROLOGICAL BASIS OF BEHAVIOUR

Course Name	Course Code	LTP	Credit	Semester
NEUROLOGICAL BASIS OF BEHAVIOUR	MCP106	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Demonstrate the broad anatomy of the human brain, especially the cerebral cortex.
CLO2	Establish the relationship between brain structure/function and several psychological processes/ neurological and mental illness.
CLO3	Explain the neurochemistry and the functions of hormones
CLO4	Identify and recognize the cognitive neuroscience techniques
CLO5	Link the biological factors underlying human behavior and different neurological disorders

B.SYLLABUS

Course Objective: Students would get an:

orientation towards the dynamics of brain behaviour complexity.

insight on psycho physiological correlates accounting for general phenomena, individual differences, and abnormal functions of human behaviour.

Course Contents:

Module I: Bio psychology– 7 hours

Nature and Scope of biopsychology. Ethics in biopsychology, divisions of biopsychology. Methods of studying the brain: Ablation, Recording and Stimulation methods, Neurochemical methods. Brain and Spinal Cord: Structure and functions. Divisions -Central and Peripheral Nervous System.

Module II: Neural Communication– 7 hours

Neurons Structure, types and functions of neuron. Neuronal conduction communication between neurons, synaptic conduction. Neurotransmitters –categories and functions. supporting cells, blood-brain barrier, basic features of nervous system, types of supporting cells.

Module III: Senses– 7 hours

Structure and function of cell, Mitosis and meiosis. Structure and function of eye, tongue and nose. Function and composition of RNA and DNA. The Brain and Cognition: Cerebral Cortex and Parallel Processing; Cognitive Neuroscience techniques: PET, CT, fMRI, ERP and other imaging techniques.

Module –IV: Evolutionary perspectives – 7 hours

Principles of Evolution –human behaviour -Reflexes, Instincts. Environmental influences on behaviour –human and non-human species. Current researches in evolutionary biopsychology. Controversial issues in evolutionary biopsychology.

Module-V: Neural mechanisms – 8 hours

Brain and cognitive functions intelligence, memory, learning. Endocrine system –functions and effects of endocrine glands. Hormones and behaviour. Neurological Disorders-Tumors, Seizures, Parkinson’s disease, Huntington’s disease, Alzheimer’s disease, Multiple Sclerosis. Chromosomal functions. Hereditary determinants of behaviour.

Texts:

Carlson, N. R. (2005). *Foundations of physiological psychology*. (6th ed.). New York: Pearson Education.

Eysenk, H.J. (2006). *Biological basis of personality*. (3rd ed.). New Jersey: Transactional Publishers.

References:

Buss, D.M. (2005). *The handbook of evolutionary psychology*. NY: John Wiley and Sons.

Lerner, R.M., & Lerne, J.V. (1999). *Theoretical foundations and biological bases of development in adolescence*. USA: Taylor and Francis.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

TERM PAPER

Course Name	Course Code	LTP	Credit	Semester
TERM PAPER	MCP130	0:0:0	1	1

A. COURSE LEARNING OUTCOMES

CLO1	Enhance the reading and writing skills and understand about the process of carrying out a research work.
CLO2	Develop research orientations to understand and enhance skills in Research Methodology.
CLO3	Gain competency in presentation skills which will further enhance their confidence.

B. SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Enhance the reading and writing skills and understand about the process of carrying out a research work.
2. Develop research orientations to understand and enhance skills in Research Methodology.
3. Gain competency in presentation skills which will further enhance their confidence.

Methodology:

The students will select a psychology based topic on which he/she is going to gain conceptual knowledge by searching related research on available secondary data resources. The students will also learn the techniques employed in conducting literature review and referencing. This is going to help them in attaining research skills. The students should follow following structure:

- a) Topic
- b) Introduction
- c) Review research (min.25 researches)
- d) Key Learning
- e) Conclusion
- f) References

The report is to be submitted in about 3000 words on A4 size sheets, Font 12pt., Times New Roman, 1.5 spacing, headings in Font Size 16. The report will be submitted a day before the presentation.

Evaluation Scheme:

Components	Internal Supervisor	Compilation of Term Paper	Viva-voce	Presentation	Total
Weightage (%)	10	40	30	20	100

SEMINAR

Course Code: MCP 145

L:0,T:0,P:0,C:01

Course Name	Course Code	LTP	Credit	Semester
SEMINAR	MCP145	0:0:0	1	1

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Select a topic of relevance to their area, drawing on different theories, perspectives and past research studies and methods.
CLO2	Write a comprehensive review of literature on a topic in psychology or a related discipline.
CLO3	Write a journal length manuscript of qualitative research, appropriate for submission to a professional journal in psychology or a related discipline.

B.SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Select a topic of relevance to their area, drawing on different theories, perspectives and past research studies and methods.
2. Write a comprehensive review of literature on a topic in psychology or a related discipline.
3. Write a journal length manuscript of qualitative research, appropriate for submission to a professional journal in psychology or a related discipline.

Methodology:

Each student will engage themselves in interaction and observation of Psychological Processes in a subject/field of their choice and document a seminar report. The Students will then present the findings in the form of a paper for Seminar discussion.

The report is to be submitted in about 3000 words on A4 size sheets, Font 12pt., Times New Roman, 1.5 spacing, headings in Font Size 16. The documentation will be submitted a day before the presentation.

Evaluation Scheme:

Components	Documentation	Internal Supervisor	Presentation	Viva-voce	Total
Weightage (%)	40	10	20	30	100

ADVANCED SOCIAL PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
ADVANCED SOCIAL PSYCHOLOGY	MCP201	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Display basic knowledge of the major concepts, and chart the progression of theoretical perspectives, empirical findings, and historical trends in Social Psychology.
CLO2	Describe, explain and evaluate research studies examining core areas of social psychology.
CLO3	Develop a critical understanding of the major methods of research in this area
CLO4	Use critical and creative thinking, sceptical inquiry, and the scientific approach to solve
CLO5	problems related to social behaviour, socialization, group processes (both inter and intra group), and interpersonal processes.
CLO6	Value empirical evidence; act ethically and professionally; and analyse the complexity of socio-cultural and international diversity.
CLO7	Apply psychological concepts, theories, and research findings to solve problems in everyday life and in society

B. SYLLABUS

Course Objectives: The student will:

Understand the use of psychosocial perspectives to explore human experiences and behaviour within social situations or socio-historical context.

Develop insights about basic assumptions and scope of psychosocial perspectives.

Learn the use of research methodologies in social psychology.

Explore the use of psychosocial perspectives in addressing the issues and problems.

Course Contents:

Module I: Introduction to Social Psychology – 7 hours

Nature and scope of social psychology, contemporary, cultural and cross-cultural psychology; traditional theoretical perspectives. Research Methods in Social psychology

Module II: Social Influence and Responding to Social Situations – 8 hours

Social facilitation; social loafing; conformity, compliance, obedience; social power; reactance; cultural context of getting influenced or resisting influence. Social perception; Attitude; Aggression; Prosocial behaviour.

Module III: Intergroup relations – 7 hours

Group dynamics, leadership style and effectiveness. Theories of Intergroup relations. Conflicts and resolution.

Module - IV Applications in real world – 7 hours

Application and challenges of societal development in counseling. Social consciousness and cyber world issues. Issues of gender, poverty, marginalization and social suffering; facilitating wellbeing and self-growth in diverse cultural and socio-political contexts.

Module V: Applied Social Psychology – 7 hours

Nature and origin of stereotyping, nature and origin of prejudice, nature and origin of discrimination, techniques for countering its effects. Applied Social Psychology: health, environment and law, personal space, crowding, territoriality

Texts:

Baron, R. A., & Byrne, D. (2000). (8th ed.). *Social psychology*. New Delhi: Prentice Hall of India.

Billig, M. (1976). *Social psychology and intergroup relations*. NY: Academic Press.

Dalal, A.K., & Misra, G. (Ed.) (2001). *New directions in Indian psychology, Vol. 1: Social psychology*. New Delhi: Sage.

References:

McGarty, C., & Haslam, S. A. (Eds.) (1997). *The message of social psychology*. Oxford, UK: Blackwell.

Misra G. (Ed.) (2009). *Psychology in India, Vol. 2: Social and organizational processes*. New Delhi: Pearson.

Shaw, M. E., & Costanzo, P. R. (1970). *Theories of social psychology*. USA: McGraw-Hill.

Taylor, M., & Moghaddam, F.M. (1987). *Theories of intergroup relations*. NY: Praeger.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

PSYCHOMETRICS

Course Name	Course Code	LTP	Credit	Semester
PSYCHOMETRICS	MCP202	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Understand the historical perspectives & ethical consideration concerning the nature meaning and types of psychological assessment.
CLO2	Develop the ability to select and evaluate tests for specific purposes, populations, situations, and settings.
CLO3	Gain an insight about standardization of psychological tests.
CLO4	Gain an understanding about basic procedures of using qualitative methodology
CLO5	Develop an understanding about the different tyoes of non-parametric tests and their assumptions

B.SYLLABUS

Course Objectives: The students will be able:

To learn about the philosophical foundations, goals and scope of qualitative

To develop an understanding about the relationship between paradigms of science and methods of qualitative inquiry.

To understand basic procedures of using qualitative methodology.

To learn about scientific rigor in the use of qualitative methodology.

Course Contents:

Module I: Psychological tests – 7 hours

Meaning of psychological assessment and psychometrics, historical background, core characteristics of assessment. Classification of psychological tests. Steps to develop psychological test, Ethical consideration. Applications of psychological tools.

Module II: - Item Analysis and Test Construction – 7 hours

Item analysis: item difficulty, item discrimination, item response theory, Factors related to construction of tools. Rational test construction, Empirical Test construction, Factor Analytic test construction.

Module III: Standardization – 8 hours

Reliability and its types, Validity and its types. Various methods of estimating reliability and Validity. Test Norms- its types, development of norms.

Module IV: Qualitative methods – 7 hours

Choosing an appropriate qualitative method. Qualitative Methods: Theory to Text, Text to theory, Qualitative Research Design, Grounded Theory, Triangulation, State of the Art and Future.

Module V: Non-parametric tests – 7 hours

Non-parametric test: Nature and assumptions. Parametric and non-parametric tests of significance. distribution free statistics, chi-square, contingency coefficient, median and sign test, Friedman test. Familiarization with software packages of statistics and their application.

Text:

Anastasi, A., (1988), *Psychological Testing*; 6th Ed. New York: Mc Millan Publishing Company

Kothari, C. R. (1986). *Research Methodology: Methods and Techniques*. New Delhi : New Age International.

References:

Charmaz, K. (2006). *Constructing grounded theory: A practical guide through qualitative analysis*.

Thousand Oaks, CA: Sage.

Denzin, N. K., & Lincoln, Y. (2005). *Handbook of qualitative research*. Thousand Oaks, CA: Sage.

Smith, J. A., Harre, R., & Langenhove, L. V. (1995). *Rethinking methods in psychology*. London: Sage.

Willig, C., & Stainton-Rogers, W. (Eds.) (2008). *Handbook of qualitative research in psychology*. London: Sage.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

HUMAN DEVELOPMENT IN SOCIAL CONTEXT

Course Name	Course Code	LTP	Credit	Semester
HUMAN DEVELOPMENT IN SOCIAL CONTEXT	MCP203	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Demonstrate knowledge of the major theoretical frameworks in study of human development.
CLO2	Identify the dynamics of development in the early and middle childhood, adolescence, adulthood and old age.
CLO3	To contextualize the developmental concerns in the social context of contemporary India.

B. SYLLABUS

Objectives:

To engage with the major theoretical frameworks in study of human development

To understand the dynamics of development in the early and middle childhood, adolescence, adulthood and old age

To contextualize the developmental concerns in the social context of contemporary India

Course Contents:

Module 1: Theoretical frames in human development: An overview – 7 hours

Psychoanalytical (Freud, Mahler, Winnicott, Kakar), Individual-constructivist (Piaget, Kohlberg), Social-constructivist (Vygotsky, Valsiner), Life-cycle (Erikson) and life span (Baltes) approaches, Dynamic systems theories and transpersonal/integral theories

Module 2: Understanding early and middle childhood – 7 hours

Who is a child? An analysis of images in media and popular culture, Child as a miniature adult and alternate cultural images

Childhood in India, Understanding the concept of multiple childhoods, Physical development, cognitive development, socio-emotional development, moral-ethical development, development of self and inner lives of children

Childhood and care in India: Government policies and concerns (Anganwadis, day care policy, child rights, child labour, RTE, mid-day meal scheme, school dropouts etc.)

Module 3: Adolescence: Developmental issues and social concerns – 8 hours

Entering adolescents' world-issues and crises: A reflective analysis. Does adolescence exist as a stage in India? A critical cultural analysis, Physical development; cognitive development: The nature of thought process and its complexity, intuitive thinking and higher cognition; moral development: The nature of moral reasoning, ideas of a just and ideal world; socio-emotional development; development of self and identity: The dynamics of identity formation and personal-integrational process; Developmental challenges: Negative identity, totalism; models of positive development

Adolescence in India: Government policies and concerns (juvenile delinquency; citizenship rights; policy on higher education etc.)

Module 4: Adulthood and old age: Developmental issues and social concerns – 7 hours

Adulthood and old age in India: Images and constructs – A reflective analysis, Physical development; cognitive development: The nature and complexity of thought, post-formal thought, higher cognition; moral development: Nature of moral thinking, higher stages of moral development; socio-emotional development: The nature of work and human relations in adulthood, life goals, personal satisfaction and mid-life crisis; development of self: Understanding the complexity of self and personal-integrational process, inter-generational relations; potential for inner growth and development

Adulthood and old age in India: Overview of government policy and social concerns (work and labour laws, marriage laws, laws on social security and care of elderly etc.)

Texts & References:

Alexander, C., & Langer, E. (Eds.) (1991). *Higher stages of human development*. New York: Oxford University Press.

Aries, P. (1962). *Centuries of childhood*. New York: Alfred A. Knopf.

Erikson, E., & Erikson, J. (1998). *The life cycle completed*. New York: W. W. Norton & Co.

Gupta, M. (2014). *Sri Aurobindo's vision of integral human development: A future discipline of study*. New Delhi, India: Springer.

Kakar, S. (2008). *The inner world: A psychoanalytic study of childhood and society in India*. New Delhi, India: Oxford University Press.

Kapur, M., & Mukundan, H. (2003). *Childcare in ancient India from the perspectives of developmental psychology and paediatrics*. New Delhi, India: Sri Satguru Publications.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

INDIAN APPROACHES TO PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
INDIAN APPROACHES TO PSYCHOLOGY	MCP204	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Investigate scope and research methods of study of Indian Psychology.
CLO2	Analyse, evaluate, and compare major theories and concept in Indian psychology and relate new experimental results to these theories.
CLO3	Explain some of the broader implications of Indian Psychology for mind body complex.
CLO4	Understand various dimensions of self and Personality.
CLO5	Describe and evaluate emotion and cognition in Indian context

B. SYLLABUS

Course Objective:

This course enables students to gather knowledge about concept of Indian Psychology. It is further designed to equip students with indigenous psychological practices.

Module: I Scope and Methods of Study – 7 hours

Psychology in the Indian Tradition

Scope and Subject Matter, Sources of Indian Psychology.

Research Methods in Indian Psychology

Experimental Methods, Phenomenological Methods, Other Methods of Relevance

Module: II Centrality of Consciousness – 7 hours

Advaita Metaphysics of Consciousness

Buddhist Phenomenology of Consciousness

Elements of Consciousness, Four Planes of Consciousness

Psychology of Consciousness in Sāṃkhya-Yoga

Module: III Mind–Body Complex – 7 hours

Mind in Indian Psychology

Vedic Conception of the Mind, Sāṃkhya Yoga Conception of Mind

Mind in Advaita Vedānta, Mind in Buddhism

Module: IV Self and Personality – 8 hours

Theories of the “SELF” in Indian Thought

The Concept of Anattā and the Denial of the Self in Buddhism

The Concept of Self in Vedānta and Sāṃkhya-Yoga

Concept of Personality in the Bhagavad Gītā and according to Āyurveda

A Buddhist Perspective on Personality Types

Psychometric Studies of Guṇa

Module: V Cognition and Emotion – 7 hours

Śāṅkara’s Views of Cognition and Knowledge

Bharata on Emotions and Aesthetic Moods

Implications of the Concept of Rasa

Rasa in the Context of Modern Psychology

Karma Yoga as Means to Liberation

Text:

Tart C. T. (1992). *Transpersonal psychologies*. (2nd Ed.). New York ; Harper Collins.

Kuppuswamy, B. (1985). *Elements of Ancient Indian Psychology*, New Delhi-110 002: Vikas Publishing House Pvt. Ltd., t, Ansari Road. (Paper back edition available)

Vrinte, J. (1996). *The quest for the inner man – Transpersonal psychotherapy and integral sadhana*.

Pondicherry, India: Sri Mira Trust.

References:

Sinha J. (1985). *Indian Psychology Vol. 1 Cognition,; Vol.2 Emotion; and Will; Vol.3 Epistemology of Perception*. New Delhi: Motilal Banarasidas.

Dalal, A.S. (2001). *A greater Psychology: An Introduction to the Psychological Thought of Sri Aurobindo*, Pondicherry: Sri Aurobindo Ashram Publication Department..

Rama, S. Ballentine, R., Ajaya, S. (1976). *Yoga and psychotherapy*. Honesdale, Pennsylvania: The Himalayan International Institute of Yoga Science and Philosophy.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

PRACTICUM III

Course Name	Course Code	LTP	Credit	Semester
PRACTICUM III	MCP320	0:0:4	2	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	To give practical experience to the students in administering and scoring psychological tests and interpreting the scores.
CLO2	To acquaint the students with the basic procedure and design of psychology experiments.
CLO3	To encourage and guide the students to undertake a small-scale research project.

B.SYLLABUS

Course Objectives:

To give practical experience to the students in administering and scoring psychological tests and interpreting the scores.

To acquaint the students with the basic procedure and design of psychology experiments.

To encourage and guide the students to undertake a small-scale research project.

Course Content:

S.No.	Practical
1	Behavioral Assessment of children Psychological Well-Being
2	Adolescent Coping Scale
3	Social Support Beck Depression Inventory
4	Body Image Perception Survey
5	Abstinence Self Efficacy Drug Use Questionnaire (AUDIT)
6	Sociometry 16 PF
7	TAT/CAT Sentence Completion Test
8	Depression screening of school children Eysenck Personality Questionnaire
9	Learning Disabilities Assessment Adjustment Scale
10	Diagnostic Interview Schedule for Children (DISC 1V)

Note: Every student is expected to perform and write any 06 experiments & tests mentioned

Examination Scheme:

Components	Viva	Record Book + Attendance	Practical Continuous	Total
Weightage (%)	40	25+05	30	100

(PROBLEM SOLVING AND CREATIVE THINKING)

Course Code: BSS203

Credit Units: 01

Course learning outcomes (CLOs)

At the successful completion of this course you (the student) would be able to:

1. Recognize the relation critical thinking with various mental processes.
2. Identify hindrance to problem solving processes.
3. Analyze the steps in problem-solving process.
4. Create plan of action applying creative thinking.

Course Objective:

To enable the students:

Understand the process of problem solving and creative thinking.

Facilitation and enhancement of skills required for decision-making.

Course Contents:

Module I: Thinking as a tool for Problem Solving

What is thinking: The Mind/Brain/Behaviour

Thinking skills

Critical Thinking and Learning:

Making Predictions and Reasoning

Memory and Critical Thinking

Emotions and Critical Thinking

Module II: Hindrances to Problem Solving

Perception

Expression

Emotion

Intellect

Work environment

Module III: Problem Solving Process

Recognizing and Defining a problem

Analyzing the problem (potential causes)

Developing possible alternatives

Evaluating Solutions

Resolution of problem

Implementation

Module IV: Plan of Action

Construction of POA

Monitoring

Reviewing and analyzing the outcome

Module V: Creative Thinking

Definition and meaning of creativity

The nature of creative thinking

Convergent and Divergent thinking

Idea generation and evaluation (Brain Storming)

Image generation and evaluation

Debating

The six-phase model of Creative Thinking: ICEDIP model

Examination Scheme:

Components	SAP	JOS	FC/MA/CS/HA	P/V/Q	A
Weightage (%)	25	15	30	25	05

SAP- Social Awareness Programme; **JOS**-Journal of Success; **HA**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **A**-Attendance

Text & References:

- Michael Steven: How to be a better problem solver, Kogan Page, New Delhi, 1999
 - Geoff Petty: How to be better at creativity; Kogan Page, New Delhi, 1999
 - Phil Lowe Koge Page: Creativity and Problem Solving, New Delhi, 1996
- Bensley, Alan D.: Critical Thinking in Psychology – A Unified Skills Approach, (1998), Brooks/Cole Publishing Company.

LIFE SKILLS

Course Name	Course Code	LTP	Credit	Semester
LIFE SKILLS	MCP207	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	This course will enable students to understand core life skills, its concept, process and practice and how they facilitated the counseling process if they are mastered.
CLO2	Demonstrate knowledge of the key theoretical concepts of life skills
CLO3	The students will acquire the attitudes, knowledge, and skills that contribute to effective learning in across the life span.
CLO4	The student will understand the relationship of academics to the world of work and to life at home and in the community
CLO5	Examine various issues of life (e.g.,School related problems, Academic, Study, caree, personal & family problems)
CLO6	Assess to different life skill through different kind of activities.

B. SYLLABUS

Course Objective: This course will enable students to understand core life skills, its concept, process and practice and how they facilitated the counseling process if they are mastered.

Course Content:

Module I: Introduction – 7 hours

Need & Importance

Application, WHO & UNICEF Model of Life Skills in Counseling

Self awareness & empathy skills

Relevance , development and use in counseling

Module II: Critical & Creative Skill – 7 hours

Relevance for counselor

Development and use of these skills in counseling

Module III: Problem Solving & Decision Making Skill – 8 hours

Relevance for counselor

Development and use of these skills in counseling

Module IV: Communication & IPR – 7 hours

Relevance for counselor

Development and use of these skills in counseling

Module V: Stress management & Handling Emotions – 7 hours

Relevance for counselor

Development and use of these skills in counseling

Text

Dahama, O.P., & Bhatnagar, O.P. (2005). *Education and communication for development (2nd ed.)*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.

Debra, M.G. (2007). *Developing thinking, developing learning - A guide to thinking skills in education*. New York: Open University Press.

Hockenbury, D.H. (2010). *Discovering psychology*. New York: Worth Publishers.

References

Halonen, J. S., & Santrock, J.W. (2009). *Psychology: Context & application. (3rd ed.)*. USA: McGraw-Hill Companies Inc.

Mangal, S.K. (2008). *An introduction to psychology*. New Delhi: Sterling Publishers Pvt. Ltd.

Nair, V. R. (2010). *Life skills, personality and leadership*. Tamil Nadu: Rajiv Gandhi National Institute of Youth Development.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

ADVANCED COUNSELING SKILLS

Course Name	Course Code	LTP	Credit	Semester
ADVANCED COUNSELING SKILLS	MCP206	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Describe basic concept of counselling in psychology.
CLO2	Become aware of major counselling skills in counselling psychology.
CLO3	Develop real life understanding of counselling skills in various setting of counselling in psychology.

B.SYLLABUS

Course Objective: This course would prepare the students with the basic and general skills required for counseling.

Course Content:

Module I: Understanding Counseling – 7 hours

Emergence & current trends

Nature of counselors work

Job outlook and Growth

Counseling in diverse environment

Module II: Counselor & Counseling Skills – 8 hours

Basic Counseling skills

Helping and Healing side of counseling

Desirable qualities of a counselor

Counseling Process: Initiating, Establishing Structure & Termination

Module III: Counseling Approaches – 7 hours

Directive, Non-Directive and Eclectic techniques

Affectively, Behaviorally & Cognitively oriented approaches

Module IV: Legal & Ethical Issues – 7 hours

Confidentiality & Professional Ethics

Counselor licensing

Ethical codes& Ground rules

Module V: Counselor's Self-care strategies – 7 hours

Burnout

Causes of stress

Remedies

Text:

Belkin, G. S. (1984). *Introduction to counseling*. Dubuque, Iowa: WCB/McGraw-Hill.
 Bellack, A. S., Hersen, M., & Kazdin, A. E. (Eds.) (2012). *International handbook of behavior modification and therapy*. New York: Springer Science & Business Media.
 Corey, G. (2015). *Theory and practice of counseling & psychotherapy*. New Delhi: Pearson.

References:

Cormier, L. S., & Nurius, P. S. (2003). *Interviewing and change strategies for helpers* (Fifth ed.). Pacific Grove, CA: Brooks/Cole.
 Gladding, S. T. (2012). *Counseling: A comprehensive profession*. New Delhi: Pearson .
 Herlihy, B., & Corey, G. (2014). *ACA ethical standards casebook*. New Jersey: John Wiley & Sons.
 Joyce, P., & Sills, C. (2014). *Skills in gestalt counseling & psychotherapy*. Los Angeles: Sage.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

REVIEW ARTICLE

Course Code: MCP 240

L:0,T:0,P:0;C:01

Course Name	Course Code	LTP	Credit	Semester
REVIEW ARTICLE	MCP240	0:0:0	1	2

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Develop the scientific bent of mind in understanding the research applications of the subject.
CLO2	Develop an understanding of currently published research literature with the aim of reporting the theoretical work in the field of interest.
CLO3	Describe research insights, existing gaps, future research directions and learn to write review based research articles.

B. SYLLABUS

Course Objectives:

With the completion of this course, successful students will be able to:

1. Develop the scientific bent of mind in understanding the research applications of the subject.
2. Develop an understanding of currently published research literature with the aim of reporting the theoretical work in the field of interest.
3. Describe research insights, existing gaps, future research directions and learn to write review based research articles.

Methodology:

The students will have to select a topic for preparing secondary data based review article appropriate for publishing in any journal. The students will have to collect the literature review in both national and international context. This will be going to help the student in gaining competency in qualitative research.

The report is to be submitted in about 3000 words on A4 size sheets, Font 12pt., Times New Roman, 1.5 spacing, headings in Font Size 16. The report will be submitted in hard copy a day before the presentation.

Evaluation Scheme:

Components	Internal Supervisor	Article writing		Presentation	Viva	Total
		Content	References			
Weightage (%)	10	30	20	20	20	100

SUMMER INTERNSHIP EVALUATION

Course Name	Course Code	LTP	Credit	Semester
SUMMER INTERNSHIP EVALUATION	MCP350	0:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Acquire practicing competencies developed throughout the internship.
CLO2	Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in in a specific organization setting (hospitals, NGO, schools, corporate etc.).
CLO3	Stimulate and take initiation in successfully identifying the professional roles involved in community counseling set up and present it.

B. SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Acquire practicing competencies developed throughout the internship.
2. Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in in a specific organization setting (hospitals, NGO, schools, corporate etc.).
3. Stimulate and take initiation in successfully identifying the professional roles involved in community counseling set up and present it.

Methodology:

The students will join in any one (or more) of the various specific organization setting (hospitals, NGO, schools, corporate etc.).The students have to maintain a logbook. Students have to follow the ethical guidelines of the agency to which they are attached and report to the supervisor in the organizationvisited as well as their respective internal supervisor assigned by the department. The students have to complete 72 hours of this course. The logbook will be submitted in hard copy a day before the presentation.

Evaluation Scheme:

Components	Logbook	Internal Supervisor	External Supervisor	Presentation	Viva-voce	Total
Weightage (%)	30	10	10	20	30	100

PRACTICUM III

Course Name	Course Code	LTP	Credit	Semester
PRACTICUM III	MCP320	0:0:4	2	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	To give practical experience to the students in administering and scoring psychological tests and interpreting the scores.
CLO2	To acquaint the students with the basic procedure and design of psychology experiments.
CLO3	To encourage and guide the students to undertake a small-scale research project.

B.SYLLABUS

Course Objectives:

To give practical experience to the students in administering and scoring psychological tests and interpreting the scores.

To acquaint the students with the basic procedure and design of psychology experiments.

To encourage and guide the students to undertake a small-scale research project.

Course Content:

S.No.	Practical
1	Behavioral Assessment of children Psychological Well-Being
2	Adolescent Coping Scale
3	Social Support Beck Depression Inventory
4	Body Image Perception Survey
5	Abstinence Self Efficacy Drug Use Questionnaire (AUDIT)
6	Sociometry 16 PF
7	TAT/CAT Sentence Completion Test
8	Depression screening of school children Eysenck Personality Questionnaire
9	Learning Disabilities Assessment Adjustment Scale
10	Diagnostic Interview Schedule for Children (DISC 1V)

Note: Every student is expected to perform and write any 06 experiments & tests mentioned

Examination Scheme:

Components	Viva	Record Book + Attendance	Practical Continuous	Total
Weightage (%)	40	25+05	30	100

BEHAVIOURAL SCIENCE – III

(Interpersonal Communication and Relationship Management)

Course Code: BSS 303

L-1/T-0/P-0

Credit Units: 01

Course Objective:

This course aims at imparting an understanding of:

- Interpersonal communication and relationship.
- Strategies for healthy interpersonal relationship
- Effective management of emotions.
- Building interpersonal competence.

Course Contents:

Module I: Interpersonal Communication

Importance of Behavioural/ Interpersonal Communication

Types – Self and Other Oriented

Rapport Building – NLP, Communication Mode

Steps to improve Interpersonal Communication

Module II: Interpersonal Styles

Transactional Analysis

Life Position/Script Analysis

Games Analysis

Interact ional and Transactional Styles

Bridging differences in Interpersonal Relationship through TA

Communication Styles

Module III: Conflict Management and Negotiation

Meaning and Nature of conflicts

Styles and techniques of conflict management

Meaning of Negotiation

Process and Strategies of Negotiation

Interpersonal Communication: Conflict Management and Negotiation

Module IV: Interp ersonal Relationship Development

Importance of Interpersonal Relationships

Interpersonal Relationship Skills

Types of Interpersonal Relationships

Relevance of Interpersonal Communication in Relationship Development

Module V: Impression Management

Meaning & Components of Impression Management

Impression Management Techniques

Impression Management Training-Self help and Formal approaches

Module VI: End-of-Semester Appraisal

Viva based on personal journal

Assessment of Behavioural change as a result of training

Exit Level Rating by Self and Observer

Text & References:

- Vangelist L. Anita, Mark N. Knapp, Inter Personal Communication and Human Relationships: Third Edition, Allyn and Bacon
- Julia T. Wood. Interpersonal Communication everyday encounter
- Beebe, Beebe and Redmond; Interpersonal Communication, 1996; Allyn and Bacon Publishers.
- Rosenfeld, P., Giacalone, R.A. and Catherine, A.R. (2003). Impression Management: Building and Enhancing Reputations at Work. Thomson Learning, Singapore.

Community Psychology

Course Name	Course Code	LTP	Credit	Semester
Community Psychology	PSY503	2:1:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Demonstrate knowledge about the field of organisational psychology and its functions.
CLO2	Compare and contrast the major organisational functions.
CLO3	Recognize career options for organisational psychologist.
CLO4	Analyse and critically evaluate the ethical and legal issues in organisational psychology
CLO5	Demonstrate awareness of the complex role organisational psychology.

B.SYLLABUS

Course Objective:

To understand how the findings of psychology are applied to the problems involving human behavior in the workplace for providing optimum solutions.

To demonstrate the application of relevant psychological theory and research problems faced by employees and organizations.

To understand how workplace can be designed so that both efficiency and the quality of employee life are improved.

Course Contents:

Module 1: Introduction – 7 hours

History of organizational psychology,
Research methods and ethical consideration
Challenges, Opportunities and Application OP

Module IV: Human Relations – 7 hours

Principles of Industrial relations
Industrial fatigue and burn out
Importance of Consumer psychology

Module II: Perspectives on Individual behaviour – 8 hours

Personality and values, Perception and the perceptual process
Attitudes and Job satisfaction, Diversity in the organisation
Work Motivation: concepts to applications
Theories related to work motivation (Early theories and Contemporary theories)

Module III: Dynamics of Organizational Behavior – 7 hours

Communication Process and barriers
Foundations of group behaviour
Work Attitude
Working with Teams
Occupational Stress and its Management

Module IV: Workplace Management and Leadership – 7 hours

Organisational Culture and Structure
Leadership Theories (early and contemporary)
Power and Politics

Module V: Contemporary concepts in OP – 7 hours

Human Engineering in work design
Perceptual Judgments : Physical conditions and psychological conditions
Ergonomics and Human Behaviour

Texts:

Schultz, D. and Schultz, S.E. (2002). *Psychology and Work Today*. (8th ed.). New Delhi: Pearson Education.
Prasad, L. M. (2006). *Organisational Behaviour*. Sultan Chand & Sons: New Delhi.

References:

Kinicki,A. and Kreitner,R. (2009). *Organisational Behaviour: Key concepts, skills & best practices*. Tata McGraw-Hill: New Delhi.

Luthans, F. (1998). *Organizational Behaviour*. New York: McGraw-Hill

Mayers D.G. (2013). *Psychology*, Worth Psychology 10th ed.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

GUIDED COUNSELING

Course Name	Course Code	LTP	Credit	Semester
GUIDED COUNSELING	MCP375	0:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Identify the psychological problem of the clients.
CLO2	Find out the causes behind the psychological problems.
CLO3	Learn to carry out some counseling sessions of the client.

B.SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Identify the psychological problem of the clients.
2. Find out the causes behind the psychological problems.
3. Learn to carry out some counseling sessions of the client.

Methodology:

In the beginning the student will practice counseling skills with Psycho-education and rapport building in peer group under the supervision of faculty. Student should select at least 10 cases related to different psychological issues related to different types of counseling which will be taught by the faculty/counselor. Applications of counseling skills in real situation can be reported by the student and discussed with the faculty/counselor for necessary modification.

Submission of report of counseling cases and exercises report of the 10 counseling cases should be neatly typed in the standard format and should be submitted in hard copy a day before the presentation. The report should cover the following points.

- Case history, Genogram of the Client
- Identification of the problem
- Psychological Assessment
- Diagnosis of problem
- Prognosis
- Session plan
- Therapeutic intervention used and its justification
- Summary and Outcomes
- Ethics Followed

Examination Scheme:

Components	<i>Internal Supervisor</i>	<i>Case Reports</i>	<i>Presentation</i>	<i>Viva Voce</i>	<i>Total</i>
Weightage (%)	10	40	20	30	100

SCIENTIFIC RESEARCH PAPER

Course Name	Course Code	LTP	Credit	Semester
SCIENTIFIC RESEARCH PAPER	PSY565	0:0:0	1	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Develop research orientations to understand and enhance skills in Research Methodology.
CLO2	Gain competency in presentation skills which will further enhance their confidence.
CLO3	Understand the scientific ways of data collection, statistical analysis, Formulation and interpretation of data.

B.SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Develop research orientations to understand and enhance skills in Research Methodology.
2. Gain competency in presentation skills which will further enhance their confidence.
3. Understand the scientific ways of data collection, statistical analysis, Formulation and interpretation of data.

Methodology:

The students will have to select a topic for research in recent scenario, conduct review literature, plan research design, and collect data and statistical techniques as well. Through this course, the students will be able to develop an understanding about empirical research and referencing. Students are required to publish a research paper under faculty supervision. The publication should be in a refereed peer reviewed National/International Journal.

The SRP will consist of the following chapters:

- 1) Abstract
- 2) Introduction
- 3) Conceptual Framework/Review of literature
- 4) Methodology (with Research Plan/Design)
- 5) Result and Discussion
- 6) Conclusion and Recommendations
- 7) Bibliography or References

The report is to be submitted on A4 size sheets, Font 12pt., Times New Roman, 1.5 spacing, headings in Font Size16. No word limit. The research paper will be submitted in the hard copy a day before the presentation.

Evaluation Scheme:

Components	Methodology & Result and Discussion	Publication	Internal Supervisor	Presentation	Viva-voce	Total
Weightage (%)	20	20	10	20	30	100

INTRODUCTION TO CLINICAL PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
INTRODUCTION TO CLINICAL PSYCHOLOGY	MCP301	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Describe historical perspective and professional identity in the area of clinical psychology.
CLO2	Understand various approaches related to clinical psychology.
CLO3	Apply the knowledge to improve the biological, psychological, social, emotional aspect of human functioning
CLO4	Understand the application of various methods and techniques required for assessing psychiatric disorders

B.SYLLABUS

Objectives:

To familiarize with the history and development of clinical psychology as a field in India and its evolving professional identity.

To orient students to major theoretical models which guide clinical psychological practice and research.

To orient about clinical assessment process and its applications in various domains.

Course Contents:

Module – I: Foundations – 7 hours

Historical background: Early & recent history

Nature of discipline: Theory and research

Developing a professional identity: Education & training, professional activities and employment settings, sub-specializations.

Module – II: Psychodynamic approach – 7 hours

Brief orientation to four psychoanalytic psychologies – Drive, ego, object relations & self-psychology

Understanding psychological defenses, regression, and the true and false self-systems

Module – III: Other major approaches – 8 hours

Behavioural and cognitive-behavioural

Humanistic

Existential

Family systems

Biological

Attempt at integration: Bio-psycho-social

Module – IV: Clinical assessment – 7 hours

Rationale and planning

Clinical interviewing

Areas of applications: Intellectual and educational; personality and interpersonal; behavioural and psycho-diagnostic

References:

Aiken, L. R. (2000). *Psychological testing and assessment* (10th ed.). Boston: Allyn & Bacon.

Anastasi, A., & Urbina, S. (1997). *Psychological testing* (7th ed.). Delhi, India: Pearson Education.

Fernandes-Ballesteros, R. (Ed.) (2003). *Encyclopedia of psychological assessment* (Vol. I & II). New Delhi, India: Sage.

Freeman, F. S. (1965). *Theory and practice in psychological testing* (3rd ed.). New Delhi, India: Oxford and IBH.

Texts:

Kaplan, R. M., & Saccuzzo, D. P. (2001). *Psychological testing: Principles, applications, and issues* (5th ed.). New Delhi, India: Asian Books Pvt. Ltd.

Koocher, G. P., Norcross, J. C., & Hill, S. S. (Eds.) (1998). *Psychologists' desk reference*. Oxford: Oxford University Press.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

PSYCHOPATHOLOGY

Course Name	Course Code	LTP	Credit	Semester
PSYCHOPATHOLOGY	MCP302	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Describe various types classification systems of disorder
CLO2	Understand various types of psychopathologies and their diagnosis
CLO3	Apply the knowledge to improve mental health of individuals

B. SYLLABUS

Objectives:

To develop understanding of the various manifestations of psychopathology.

To familiarize with DSM V and ICD 10 classificatory systems in the context of diagnosis of various psychiatric/psychological disorders.

Contents:

Module – I: Classification and models of psychopathology – 7 hours

Psychopathology and systems of classification

Basic features of DSM-V & ICD-10: Similarities, differences and critical evaluation.

Major theoretical models of psychopathology.

Critical evaluation.

Module – II: Disorders of mood, anxiety, somatoform & behavioural syndromes – 7 hours

Clinical characteristics and etiology of depression, bipolar affective disorders.

Clinical characteristics and etiology of phobia, panic, OCD, PTSD, adjustment disorder.

Clinical characteristics and etiology of dissociative disorder, somatoform disorder, other neurotic disorders.

Clinical characteristics and etiology of eating disorder, sleep disorder.

Module – III: Psychotic spectrum disorders – 7 hours

Clinical characteristics and etiology of schizophrenia, delusion, other psychotic disorders.

Schizophrenia and its spectrum.

Delusional, brief and shared psychotic disorders.

Schizo-affective disorders and related manifestations.

Other psychotic disorders, cultural specific manifestations, organic overlay.

Module – IV: Disorders of infancy, childhood and adolescence – 8 hours

Clinical characteristics and etiology of specific developmental disorder of scholastic skills.

Pervasive developmental disorders.

Behavioural and emotional disorders.

Disorders of social functioning.

References:

Adams, P. B., & Sutker, H. E. (2001). *Comprehensive handbook of psychopathology* (3rd ed.). New York: Springer.

Craighead, W. E., Miklowitz, D. J., & Craighead, L. W. (2008). *Psychopathology: History, diagnosis and empirical foundations*. New York: John Wiley and Sons.

Hersen, M., & Beidel, D. (2012). *Adult psychopathology and diagnosis* (6th ed.). New York: Wiley.

Texts:

Blaney, P. H., Krueger, R. F., & Millon, T. (2015). *Oxford textbook of psychopathology* (3rd ed.). New York: Oxford University Press.

Millon, T., Krueger, R. F., & Simonsen, E. (2011). *Contemporary directions in psychopathology*. New York: Guilford Press.

Sadock, B. J., & Sadock, V. A. (2015). *Kaplan and Sadock's synopsis of psychiatry* (11th ed.). PA, USA: Lipincott, Williams and Wilkins.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

PSYCHOTHERAPY

Course Name	Course Code	LTP	Credit	Semester
PSYCHOTHERAPY	MCP303	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Develop an appreciation for the importance of psychotherapy research
CLO2	Describe different psychotherapeutic intervention techniques
CLO3	Understand the role of psychotherapist in different intervention techniques.
CLO4	Develop skills and knowledge required to work with clients in order to carry out psychological interventions

B. SYLLABUS

Objectives:

To understand theories and techniques of major psychotherapy approaches.

To develop an appreciation for the importance of psychotherapy research .

Course Contents:

Module - I: Foundations – 7 hours

Becoming a psychotherapist: Training and supervision.

Stages of therapy.

Modes of therapy: Individual, group, couples & family.

Psychotherapy research.

Critical/controversial issues in psychotherapy.

Module – II: Psychodynamic therapies – 7 hours

Psychoanalytic therapies.

Brief analytic therapies.

Object-relations therapies.

Interpersonal approaches.

Module – III: Humanistic & transpersonal therapies – 7 hours

Client-centred therapies.

Existential therapies.

Gestalt therapies.

Transpersonal therapies.

Module – IV: Behavioural & cognitive-behavioural therapies – 8 hours

Behavioural therapy.

Cognitive therapy (Beck).

Rational emotive behaviour therapy (Ellis).

References:

Brems, C. (2000). *Dealing with challenges in psychotherapy and counseling*. Singapore: Brooks/Cole.

Brems, C. (2001). *Basic skills in psychotherapy and counseling*. Singapore: Brooks/Cole.

Corey, G. (2015). *Theory and practice of counseling and psychotherapy* (10th ed.). Boston: Cengage Learning.

Dryden, W. (2007). *Dryden's handbook of individual therapy* (5th ed.). New Delhi, India: Sage.

Prochaska, J. O., & Norcross, J. C. (2003). *Systems of psychotherapy: A transtheoretical analyses* (5th ed.). Pacific Grove, CA:

Texts:

Sundel, M., & Sundel, S. S. (2004). *Behavior change in the human services: Behavioral and cognitive principles and applications* (5th ed.). Thousand Oaks, CA: Sage Publications.

Todd, J., & Bohart, A. C. (2005). *Foundations of clinical and counseling psychology*. Grove, IL: Waveland Press.

Trull, T. J., & Phares, E. J. (2001). *Clinical psychology: Concepts, methods, and profession* (6th ed.). Belmont, CA: Wadsworth/Thomson Learning.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

CLINICAL PSYCHOLOGY: A POSITIVE PSYCHOLOGY APPROACH

Course Name	Course Code	LTP	Credit	Semester
CLINICAL PSYCHOLOGY: A POSITIVE PSYCHOLOGY APPROACH	MCP304	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Explore the development of positive psychology and Indian and Western approach to it.
CLO2	Evaluate the role of positive psychology models in quality of life and wellbeing of clients.
CLO3	Using elements of positivity in counselling
CLO4	Studying role of positive relationships and apply apply positive psychological approach in clinical set up.
CLO5	Applications of Positive Psychology in Counselling diverse populations

B. SYLLABUS

Course Objectives:

The course examines paradigm shift from pathologies to positive subjective experience and positive individual traits to improve quality of life. A framework for a science of positive psychology is built on the aim to promote positive relationships which has implications in various areas of psychology. The course helps the students to acquire insights into their own strengths and utilize them to increase their own and others' wellbeing.

Course Contents:

Module I: Introduction to Positive Psychology – 7 hours

Theoretical background : Association between positive psychology and counseling; Salutogenic vs pathogenic models.

Counseling using positive psychology: Indian and Western tradition

Module II: Role of inducing Positive Emotional and Cognitive States – 8 hours

Using elements of positivity in counseling: Principles of pleasure; Positive emotions, emotional states and positive health; emotional intelligence; optimism and hope; self efficacy; wisdom and courage; faith; flow and spirituality.

Module III: Focus on enhancement of Subjective Well-Being and Quality of Life – 7 hours

Making of a fully functioning positive individual: role of life satisfaction and happiness; well-being , quality of life and meaning in life.

Module IV: Role of Promoting Positive Relationships – 7 hours

Self and consciousness; mindfulness; positive personal traits; positive coping strategies; positive relationships: Love; Compassion, Forgiveness, Altruism, Gratitude, Empathy.

Application of the above in family, parental, caregivers' and marital counseling.

Module V: Applications of Positive Psychology in counseling diverse populations – 7 hours

Ageing; Health; Work; Mental Health and Behavior; Stress Management; Communities ME/WE balance.

Texts:

Snyder, C.R., & Lopez, S.J. (2002). *Handbook of positive psychology*. (eds.). New York: Oxford University Press.

Seligman, M. (1994). *What you can change and what you can't*. New York: Knopf.

References:

Anderson, N.B. (2003). *Emotional longevity*. New York: Viking.

Andrews, F.M., & Withey, S.D. (1976). *Social indicators of wellbeing*. New York: Plenum Press.

Baltes, P., & Staudinger, U.M. (2000). Wisdom: A metaheuristic (pragmatic) to orchestrate mind and virtue toward excellence. *American Psychologist*, 55, 122- 136.

Bradburn, N., & Caplovitz, D. (1965). *Reports of happiness*. Chicago: Aldine.

Buss, D.M. (2000). The Evolution of Happiness. *American Psychologist*, 55, 15- 23.

Csikszentmihalyi, M. (1975). *Beyond boredom and anxiety*. San Francisco: Jossey-Bass.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

METHODS AND APPROACHES IN COUNSELING

Course Name	Course Code	LTP	Credit	Semester
METHODS AND APPROACHES IN COUNSELING	MCP305	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Explore various approaches, methods and techniques in counselling.
CLO2	Apply the knowledge of various approaches using different methods and techniques.
CLO3	Evaluate the application of various method and techniques in different situations.

B. SYLLABUS

Objectives:

To give a comprehensive understanding of the different methods and approaches to counseling.

To give the student the experience of undergoing as well as performing counseling using different methods.

Course Contents:

Module - I: Approaches to Counseling – 7 hours

Psychodynamic approaches.

Behavioristic approaches.

Humanistic approaches.

Existential counseling.

Indian spiritual/yogic approaches.

Module – II: Dynamic Methods – 7 hours

Psychoanalytic counseling.

Jungian theory based counseling.

Adlerian counseling.

Other Neo-Freudian methods.

Module – III: Other Techniques – 7 hours

Behavioristic counseling.

Cognitive counseling.

Non-directive counseling.

Directive counseling.

Psycho-drama, use of fine arts in counseling.

Module – IV: Miscellaneous Approaches, Methods and Techniques – 7 hours

Group counseling.

Peer counseling, co-counseling.

Other counseling approaches and methods.

Modern developments in counseling.

References:

Chandra, R. (2011). *Psychology, counseling and therapeutic practices*. N.D.:Gyan Books.

Clarkson, P. (Ed.) (1998). *Counseling Psychology*. U.K.:Psychology Press.

Corey, G. (2004). *Theory and practice of counseling and psychotherapy*. NJ, USA: Princeton.

Texts:

Misra, G. (Ed.) (2011). *Handbook of psychology in India*. New Delhi, India: Oxford University Press.

Nelson-Jones.,R. (2012). *Introduction to counselling skills*. Los Angeles:Sage

Sejwal, P., & Arora, M. (2012). *Counseling psychology*. N.D.:Crescent Publishing

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE

Weightage (%)	15	15	15	5	50
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MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class;
MA- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

ASSESSMENT & RESEARCH IN COUNSELING

Course Name	Course Code	LTP	Credit	Semester
ASSESSMENT & RESEARCH IN COUNSELING	MCP306	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Understanding assessment, testing and research as important tools in counselling psychology.
CLO2	Identify and learn various research methods applied in counselling psychology and Demonstrate awareness of major methods of research and analysis of data in counseling psychology.
CLO3	Understand problems of test development and research in India and future practice

B.SYLLABUS

Objectives:

To give the student a broad acquaintance with psychological measurement and assessment, psychological tests, testing in India and methods of test development.

To train the students in methods of research and analysis of data in counseling psychology.

Course Contents:

Module - I : Psychological Measurement – 7 hours

Methods of personality assessment.

Psychological testing.

Well known psychological tests.

Tests and testing in India used for counseling.

Module – II: Test Development – 7 hours

Steps in test development.

Item analysis.

Preparation of norms.

Methods for determining reliability and validity.

Module - III Research Methods – 7 hours

Quantitative data and analysis.

Types of qualitative data and techniques for analysis.

Research design.

Computerisation, writing research reports, papers, books.

Module – IV: Counseling in India – 7 hours

Problems of test development in India.

History of counseling movement in India, Indianisation of counseling

Contemporary issues relating to counseling practice in India.

Future of counseling practice, research and development in India.

Texts & References:

Blocher, D. H. (2000). *Evolution of counseling psychology*. N.Y.:Springer.

Breakwell, G. M., Smith, J. A. & Wright, D. B. (Eds.) (2012). Los Angeles: *Research methods in psychology*. Sage.

Groth-Marnat, G., & Wright, A. J. (2016). *Handbook of psychological assessment*. N.J: Wiley.

Lane, S., Raymond, M. R., & Haladyna, T. M. (Eds.) (2015). *Handbook of test development*. U.K.: Routledge.

Misra, G. (Ed.) (2009). *The structure of Indian mind*. New Delhi, India: L.B. Shastri Sanskrit Vidyapeeth.

Yerroju, B. (2013). *Guidance and counseling*. Delhi:Jain Book Depot.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

AREAS AND RELATED DISCIPLINES OF COUNSELING

Course Name	Course Code	LTP	Credit	Semester
AREAS AND RELATED DISCIPLINES OF COUNSELING	MCP307	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Describe various areas of counseling
CLO2	To gain understanding of special counselling applications
CLO3	Understanding the purpose and approach of counselling in different areas

B. SYLLABUS

Objectives:

To study of application of counseling in different areas.

To understand the connection with and difference from related other disciplines.

Course Contents:

Module - I Areas of Counseling – 7 hours

Counseling for personal and adjustment problems.

Educational counseling.

Vocational guidance and career counseling.

Module - II Purposes of Counseling – 7 hours

Counseling for health problems, hospital counseling.

Paediatric counseling.

Counseling related to gender issues.

Cross-cultural counseling.

Module - III Special Counseling Applications – 7 hours

Rehabilitation counseling.

Crisis and trauma counseling.

Counseling and substance abuse.

Psychiatric counseling.

Module - IV Counseling and Related other Disciplines – 7 hours

Counseling and case work as practised by social work people.

Psychiatry, psychotherapy, and clinical psychology.

Community psychology.

Rehabilitation psychology.

Popular lay movements like Transactional Analysis, NLP, etc.

Texts & References:

Blocher, D., & Biggs, D. (1983). *Counseling psychology in community settings*. N.Y.:Springer Publishing Co.

Gelso, C. J., Williams, E. N., & Fretz, B. (2014). *Counseling psychology* (3rd ed.). Washington, D.C.: American Psychological Association.

Brown, S. D., & Lent, R.W. (2008). *Handbook of counseling psychology* (4th ed.). New York: Wiley.

Moodley, Gielen, & Wu,R. (2013). *Handbook of counseling and psychotherapy in an international context*. New York: Routledge.

Hill, C. E. (2014). *Helping skills* (4th ed.). Washington, D.C.: American Psychological Association.

Gielen, U. P., Fish, J. M., & Draguns, J. G. (Eds.) (2004). *Handbook of culture, therapy, and healing*. Mahwah, NJ: Lawrence Erlbaum.

Misra, G., & Mohanty, A. K. (Ed.) (2002). *Perspectives on indigenous psychology*. New Delhi, India: Concept.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

COUNSELING FOR DIVERSE AND VULNERABLE POPULATION

Course Name	Course Code	LTP	Credit	Semester
COUNSELING FOR DIVERSE AND VULNERABLE POPULATION	MCP308	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Explore the concept of diverse and vulnerable population
CLO2	Identify the counselling needs of diverse and vulnerable population.
CLO3	Apply counselling skills and theories to such cases.

B.SYLLABUS

Course Objectives: the aim of this course is to prepare the students to understand the counseling needs of diverse and vulnerable population and application of counseling skills and theories to such cases.

Course Content:

Module I: Introduction & Children Population – 7 hours

Need & Importance of diverse & vulnerable population
Destitute, orphanage & broken family Children
Early intervention
Recovery & treatment

Module II: Adolescent Population – 7 hours

Academic issues, Body Image, eating disorder & Bullying
Early intervention
Recovery and treatment

Module III: Elderly Population – 7 hours

Identification of risk factors
Psychological effects on life
Counseling intervention

Module IV: Women Population – 7 hours

Divorced, Widow, Separated, Single, other issues
Identification of risk factors
Psychological effects on life
Counseling intervention

Module V: Minority Population – 8 hours

Racial & ethnic identity

Linguistic and Cultural Diversity

Acculturation & mattering

Counseling intervention

Text:

Suprianta, N. (2009). *Counseling for special populations: Theory, research and practices*. Indonesia: University of Education.

References:

Panda, K.C. (1999). *Education of exceptional children*. New Delhi: Vikas Publication House.
Pillai, M.G. (2003). *Exceptional children- causes & assessment*. Jaipur: Pointer Publication.
Prasad, S.B. (2004). *Special education*. Jaipur: Pointer Publication.

Brown, R. T., & Reynolds, C.R. (1999). *Psychological perspectives on childhood exceptionality: A handbook*. (99th ed.). Guilford Press.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

CONDUCTION OF SUPERVISED WORKSHOPS

Course Name	Course Code	LTP	Credit	Semester
CONDUCTION OF SUPERVISED WORKSHOPS	MCP481	0:0:0	4	4

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Attain the knowledge regarding the applications of the concepts through the attending the workshop/s
CLO2	Effectively conceptualize the client's concerns, demonstrate and apply psychologist's skills in clinical set up and write a report.
CLO3	Gain practical knowledge about different mental ailments, their symptoms & intervention strategies.

B. SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Attain the knowledge regarding the applications of the concepts through the attending the workshop/s
2. Effectively conceptualize the client's concerns, demonstrate and apply psychologist's skills in clinical set up and write a report.
3. Gain practical knowledge about different mental ailments, their symptoms & intervention strategies.

Methodology:

Students will have to undertake supervised training from a workshop/s during the course. Students will be attending the workshop and acquiring the skills which will help to become a clinical psychologist. They will be mentored by a supervisor at the department. Students have to periodically meet their supervisors and submit their report at the end of semester. The students have to complete 96 hours of this course. The report will be submitted in hard copy a day before presentation.

Evaluation Scheme:

Components	Report	Internal Supervisor	Presentation	Viva-voce	Total
Weightage (%)	40	10	20	30	100

INTERNSHIP IN CLINICAL SETTING

Course Name	Course Code	LTP	Credit	Semester
INTERNSHIP IN CLINICAL SETTING	MCP482	0:0:0	5	4

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Acquire practicing competencies developed throughout the internship.
CLO2	Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in clinical set up and prepare patient logbook
CLO3	Stimulate and take initiation in successfully identifying the professional roles involved in clinical set up and present it.

B. SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Acquire practicing competencies developed throughout the internship.
2. Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in clinical set up and prepare patient logbook.
3. Stimulate and take initiation in successfully identifying the professional roles involved in clinical set up and present it.

Methodology:

The students will have block placements in any one (or more) of the various hospitals or therapeutic centers. The students have to maintain a logbook. Students have to follow the ethical guidelines of the agency to which they are attached and report to the supervisor in the organization visited as well as their respective internal supervisor assigned by the department. The students have to complete 120 hours of this course. The student will submit logbook in hard book a day before presentation.

Evaluation Scheme:

Components	Logbook	Internal Supervisor	External Supervisor	Presentation	Viva-voce	Total
Weightage (%)	30	10	10	20	30	100

INTERNSHIP IN NGO/ REHABILITATION CENTER

Course Name	Course Code	LTP	Credit	Semester
INTERNSHIP IN NGO/ REHABILITATION CENTER	MCP483	0:0:0	5	4

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Acquire practicing competencies developed throughout the internship.
CLO2	Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in NGO/Rehabilitation center set up and prepare client logbook.
CLO3	Stimulate and take initiation in successfully identifying the professional roles involved in NGO/Rehabilitation center set up and present it.

B.SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Acquire practicing competencies developed throughout the internship.
2. Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in NGO/Rehabilitation center set up and prepare client logbook.
3. Stimulate and take initiation in successfully identifying the professional roles involved in NGO/Rehabilitation center set up and present it.

Methodology:

The students will have block placements in any one (or more) of the various NGOs/rehabilitation centers. They will maintain a logbook. Students have to follow the ethical guidelines of the organization/school to which they are attached and report to the supervisor in the organization visited as well as their respective internal supervisor assigned by the department. The students have to complete 120 hours of this course. The student will submit the logbook in hard copy a day before the presentation.

Evaluation Scheme:

Components	Logbook	Internal Supervisor	External Supervisor	Presentation	Viva-voce	Total
Weightage (%)	30	10	10	20	30	100



Course Name	Course Code	LTP	Credit	Semester
DISSERTATION	MBA455	0:0:18	9	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Selecting a topic for investigation.
CLO 2	Establishing the precise focus of your study by deciding on the aims and objectives of the dissertation, or formulating questions to be investigated. Consider very carefully what is worth investigating and its feasibility.
CLO 3	Drawing up initial dissertation outlines considering the aims and objectives of the dissertation. Workout various stages of dissertation.
CLO 4	Devising a timetable to ensure that all stages of dissertation are completed in time. The timetable should include writing of the dissertation and regular meetings with your dissertation guide.

B. SYLLABUS

Selecting the Dissertation Topic

It is usual to give you some discretion in the choice of topic for the dissertation and the approach to be adopted. You will need to ensure that your dissertation is related to your field of specialization.

Deciding this is often the most difficult part of the dissertation process, and perhaps, you have been thinking of a topic for some time.

It is important to distinguish here between 'dissertation topic' and 'dissertation title'. The topic is the specific area that you wish to investigate. The title may not be decided until the dissertation has been written so as to reflect its content properly.

Few restrictions are placed on the choice of the topic. Normally we would expect it to be:

- relevant to business, defined broadly;
- related to one or more of the subjects or areas of study within the core program and specialisation stream;
- clearly focused so as to facilitate an in-depth approach, subject to the availability of adequate sources of information and to your own knowledge;
- of value and interest to you and your personal and professional development.

Planning the Dissertation

This will entail following:

- Selecting a topic for investigation.
- Establishing the precise focus of your study by deciding on the aims and objectives of the dissertation, or formulating questions to be investigated. Consider very carefully what is worth investigating and its feasibility.
- Drawing up initial dissertation outlines considering the aims and objectives of the dissertation. Workout various stages of dissertation.
- Devising a timetable to ensure that all stages of dissertation are completed in time. The timetable should include writing of the dissertation and regular meetings with your dissertation guide.

The Dissertation plan or outline

It is recommended that you should have a dissertation plan to guide you right from the outset. Essentially, the dissertation plan is an outline of what you intend to do, chapter wise and therefore should reflect the aims and objectives of your dissertation.

There are several reasons for having a dissertation plan:

- It provides a focus to your thoughts.
- It provides your faculty-guide with an opportunity, at an early stage of your work, to make constructive comments and help guide the direction of your research.
- The writing of a plan is the first formal stage of the writing process, and therefore helps build up your confidence.
- In many ways, the plan encourages you to come to terms with the reading, thinking and writing in a systematic and integrated way, with plenty of time left for changes.
- Finally, the dissertation plan generally provides a revision point in the development of your dissertation report in order to allow appropriate changes in the scope and even direction of your work as it progresses.

Keeping records

This includes the following:

- Making a note of everything you read; including those discarded.
- Ensuring that when recording sources, author's name and initials, date of publication, title, place of publication and publisher are included. (You may consider starting a card index or database from the outset). Making an accurate note of all quotations at the time you read them.
- Make clear what is a direct quotation and what is your paraphrase.

Dissertation format

All students must follow the following rules in submitting their dissertation:

- Front page should provide title, author, Name of degree/diploma and the date of submission.
- Second page should be the table of contents giving page references for each chapter and section.
- The next page should be the table of appendices, graphs and tables giving titles and page references.
- Next to follow should be a synopsis or abstract of the dissertation (approximately 500 words) titled: **Executive Summary**.
- Next is the 'acknowledgements'.
- Chapter I should be a general introduction, giving the background to the dissertation, the objectives of the dissertation, the rationale for the dissertation, the plan, methodological issues and problems. The limitations of the dissertation should also be hinted in this chapter.
- Other chapters will constitute the body of the dissertation. The number of chapters and their sequence will usually vary depending on, among others, on a critical review of the previous relevant work relating to your major findings, a discussion of their implications, and conclusions, possibly with a suggestion of the direction of future research on the area.
- After this concluding chapter, you should give a list of all the references you have used. These should be cross-references with your text. For articles from journals, the following details are required e.g.

Draper P and Pandyal K. 1991, The Investment Trust Discount Revisited, Journal of Business Finance and Accounting, Vol18, No6, Nov, pp 791-832.

For books, the following details are required:

Levi, M. 1996, International Financial Management, Prentice Hall, New York, 3rd Ed, 1996.

- Finally, you should give any appendices. These should only include relevant statistical data or material that cannot be fitted into the above categories.

The Layout Guidelines for the Dissertation

- A4 size Paper
- Font: Arial (10 points) or Times New Roman (12 points)
- Line spacing: 1.5
- Top and bottom margins: 1 inch/ 2.5 cm; left and right margins: 1.25 inches/ 3 cm

Guidelines for the Assessment of the Dissertation

While evaluating the dissertation, faculty guide will consider the following aspects:

1. Has the student made a clear statement of the objective or objective(s).
2. If there is more than one objective, do these constitute parts of a whole?
3. Has the student developed an appropriate analytical framework for addressing the problem at hand.
4. Is this based on up-to-date developments in the topic area?
5. Has the student collected information / data suitable to the frameworks?
6. Are the techniques employed by the student to analyse the data / information appropriate and relevant?
7. Has the student succeeded in drawing conclusion from the analysis?
8. Do the conclusions relate well to the objectives of the project?
9. Has the student been regular in his work?
10. Layout of the written report.

Examination Scheme:

Contents & Layout of the Report	30
Conceptual Framework	10
Objectives & Methodology	15
Implications & Conclusions	15
Viva/ Presentations	30

TOTAL **100**

CONDUCTION OF SUPERVISED WORKSHOPS

Course Name	Course Code	LTP	Credit	Semester
CONDUCTION OF SUPERVISED WORKSHOPS	MCP481	0:0:0	4	4

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Attain the knowledge regarding the applications of the concepts through the attending the workshop/s
CLO2	Effectively conceptualize the client's concerns, demonstrate and apply psychologist's skills in clinical set up and write a report.
CLO3	Gain practical knowledge about different mental ailments, their symptoms & intervention strategies.

B. SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Attain the knowledge regarding the applications of the concepts through the attending the workshop/s
2. Effectively conceptualize the client's concerns, demonstrate and apply psychologist's skills in clinical set up and write a report.
3. Gain practical knowledge about different mental ailments, their symptoms & intervention strategies.

Methodology:

Students will have to undertake supervised training from a workshop/s during the course. Students will be attending the workshop and acquiring the skills which will help to become a clinical psychologist. They will be mentored by a supervisor at the department. Students have to periodically meet their supervisors and submit their report at the end of semester. The students have to complete 96 hours of this course. The report will be submitted in hard copy a day before presentation.

Evaluation Scheme:

Components	Report	Internal Supervisor	Presentation	Viva-voce	Total
Weightage (%)	40	10	20	30	100

INTERNSHIP IN COMMUNITY SETTING

Course Name	Course Code	LTP	Credit	Semester
INTERNSHIP IN COMMUNITY SETTING	MCP485	0:0:0	5	4

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Acquire practicing competencies developed throughout the internship.
CLO2	Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in community counseling set up and prepare client logbook.
CLO3	Stimulate and take initiation in successfully identifying the professional roles involved in community counseling set up and present it.

B.SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Acquire practicing competencies developed throughout the internship.
2. Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in community counseling set up and prepare client logbook.
3. Stimulate and take initiation in successfully identifying the professional roles involved in community counseling set up and present it.

Methodology:

The students will have block placements in any one (or more) of the various community service centers .The students have to maintain a logbook. Students have to follow the ethical guidelines of the agency to which they are attached and report to the supervisor in the organization visited as well as their respective internal supervisor assigned by the department. The students have to complete 120 hours of this course. The logbook will be submitted in hard copy a day before the presentation.

Evaluation Scheme:

Components	Logbook	Internal Supervisor	External Supervisor	Presentation	Viva-voce	Total
Weightage (%)	30	10	10	20	30	100

INTERNSHIP IN NGO/ REHABILITATION CENTER

Course Name	Course Code	LTP	Credit	Semester
INTERNSHIP IN NGO/ REHABILITATION CENTER	MCP483	0:0:0	5	4

A. COURSE LEARNING OUTCOMES (CLOs)

CLO1	Acquire practicing competencies developed throughout the internship.
CLO2	Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in NGO/Rehabilitation center set up and prepare client logbook.
CLO3	Stimulate and take initiation in successfully identifying the professional roles involved in NGO/Rehabilitation center set up and present it.

B.SYLLABUS

Course Objectives:

With the completion of this course, students will be able to:

1. Acquire practicing competencies developed throughout the internship.
2. Get well acquainted with the organizational structure, protocol, relationships, processes, treatment compliance of inmates and working conditions in NGO/Rehabilitation center set up and prepare client logbook.
3. Stimulate and take initiation in successfully identifying the professional roles involved in NGO/Rehabilitation center set up and present it.

Methodology:

The students will have block placements in any one (or more) of the various NGOs/rehabilitation centers. They will maintain a logbook. Students have to follow the ethical guidelines of the organization/school to which they are attached and report to the supervisor in the organization visited as well as their respective internal supervisor assigned by the department. The students have to complete 120 hours of this course. The student will submit the logbook in hard copy a day before the presentation.

Evaluation Scheme:

Components	Logbook	Internal Supervisor	External Supervisor	Presentation	Viva-voce	Total
Weightage (%)	30	10	10	20	30	100

SYSTEMS AND APPROACHES

Course Name	Course Code	LTP	Credit	Semester
SYSTEMS AND APPROACHES	PSY105	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Describe basic concepts of psychology and it as a science.
CLO2	Understand and apply various concepts related to structuralism and functionalism.
CLO3	Understand and apply various concepts related to psychoanalysis.
CLO4	Understand and apply various concepts related to behaviourism.
CLO5	Understand and apply various concepts related to phenomenology and gestalt.

B. SYLLABUS

Course Objective:

The paper on System and Theories gives a brief history of psychology and the developments within the discipline.

Course Contents:

Module I: Science & Scientific Theory – 7 hours

Psychology as a Science

Module II: Structuralism & Functionalism – 8 hours

Structuralism – Contribution of Wundt and Titchner, Criticisms

Functionalism – Contributions of William James & others, Criticisms

Module III: Psychoanalysis – 7 hours

Classical Psychoanalysts – Sigmund Freud

Neo- Freudism – Eric Erickson, Alfred Adler and Carl Jung

Module IV: Behaviorism – 7 hours

Contributions of Pavlov, Skinner, Watson and Thorndike

Module V: Phenomenology and Gestalt – 7 hours

Contributions of Edmund Husserl

Continuity theory

Text:

Leahy, T H, (1991), A History of Modern Psychology; New York: Prentice Hall

Wolman B B, (1979), Contemporary Theories and Systems in Psychology; London: Freeman Book Company

References:

Chaplin, J P & Krawice, T S, (1979), Systems and Theories in Psychology; New York: Holt Rinechart & Winston

Marx M H & Hillix W A, (1986), Systems and Theories in Psychology; New York: McGraw Hill

Sartre, J P (1956), History & Theories of Psychology

Paranj, A C, (1994), Meeting East and West; New York: Plenum Press

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; CT-Class Test; H-Home Assignment; P-Presentation; V-Viva; Q-Quiz; FC- Flip class; MA- Movie Analysis; CS- Case study; DP- Discursive paper; A-Attendance; EE-End Session Exam

PSYCHOLOGY OF AGEING

Course Name	Course Code	LTP	Credit	Semester
PSYCHOLOGY OF AGEING	PSY106	2:1:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Demonstrate knowledge of the key theoretical concepts related to ageing. Obtain and evaluate original research material in the area of aging.
CLO2	Examine the changes in physical, cognitive and psychosocial development as people age.
CLO3	Identify major illnesses and develop the skills of accuracy and precision in assessment, diagnosis & planning of health needs and care of older adults.
CLO4	Examine various issues in ageing (e.g., transition to retirement, health-related changes, optimal ageing factors, adaptation to changes in family patterns, loss of spouse etc.), as well as multiple influences on the experience of ageing (e.g., caregiving, societal policies, attitudes toward elderly) highlighting aspects which facilitate successful / positive ageing.
CLO5	Analyse and critically evaluate ethical, legal and financial issues of the elderly.

B. SYLLABUS

Course Objective:

This paper will enable the students to have a better understanding of the needs, theories and processes of ageing. Also, to empower the students with the wider knowledge on how to deal with the issues and problems related to old age.

Course Contents:

Module I: Introduction – 7 hours

Gerontology- Meaning, Nature & Scope, Historical perspective of Ageing
Morbidity & Mortality, Ageing- Myths & Facts
Major Needs and Global Picture- Researches & Studies

Module II: Aspects of Ageing – 7 hours

Developmental, Biological, Physiological, Psychological & Social aspects

Module III: Palliative Care – 7 hours

Assessment, Diagnosis & Planning
Major issues and its care- Physical and Psychological

Module IV: Individual & Social Issues – 7 hours

Adjustment to Old Age, Attitudes towards Old People
Adjustment to Changes: Family Patterns, Loss of Spouse, Living Alone, Remarriage in Old Age, Physical, Motor & Mental Abilities

Module V: Ethical, Legal & Financial Issues – 8 hours

Welfare Policy and shelter homes for Elderly
Identifying Excellence in Care of Elderly
Ethical Theories & Principles
Constitutional Rights, Public Policy & Services

Text:

Kenneth F. Ferraro: Gerontology: perspectives and issues, Published by Springer Pub. Co., 1990

References:

Coni, N., Davison, W. & Webster, S. (1984). *Ageing: the facts.UK*: Oxford Medical Publications
Hamilton, I.S. (2006). *The Psychology of Ageing: An Introduction*, 4th Edition. UK: Jessica Kingsley Publications.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

BASIC COGNITIVE PROCESSES

Course Name	Course Code	LTP	Credit	Semester
BASIC COGNITIVE PROCESSES	PSY202	2:1:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Describe historical perspective and professional identity of cognitive psychology.
CLO2	Analyse, evaluate, and compare major theories in cognitive psychology and relate new experimental results to these theories.
CLO3	Explain some of the broader implications of cognitive research for society.

B. SYLLABUS

Course Objective:

The course deals with the understanding of higher mental processes and their relevance in daily living. The study of normal processes is essential to enable the understanding of neurological or abnormal dysfunctions. The objectives of this course are (a) to provide an understanding of normal mental processes and their relationship to brain, mind and behavior, and (b) to study the concept of cognition and its application.

Course Contents:

Module I: Introduction and Sensation – 7 hours

Introduction, History and Background of Cognitive Psychology
Sensory Process: Meaning and Types of Senses, Sensation and Sensitivity

Module II: Attention and Perception – 8 hours

Attention: Nature, Process Types and Determinants of attention
Theories of attentions
Perceptual Process: Meaning and Nature of Perception
Principles of Perceptual organization
Perception of Space, Depth–Visual Monocular Cues and Binocular Cues, Perception of Distance and Direction
Perceptual constancy
Perceptual Illusions, Delusions and Hallucinations

Module III: Learning – 7 hours

Learning: Meaning, Nature and Types of learning (Verbal, Motor, Concept etc)
Theories of Learning - Trial and Error Theory, Classical Conditioning Theory, Operant / Instrumental Conditioning
Insight Learning Theory
Transfer of Training: Meaning, Types and Theories of Transfer

Module IV: Thinking, Problem Solving & Language – 7 hours

Thinking: Nature, and Types of Thinking
Tools of thinking: Images, Concept, Symbols and Signs, Language, Muscle Activities and Brain Function
Problem solving: Meaning and Methods of Problem solving.
Role of set in problem solving
Decision Making: Meaning, Types and Hindrances
Language: Definition, Elements of Language, Development, Acquisition, Influence of Culture

Module V: Intelligence – 7 hours

Intelligence: Meaning and Nature
Theories of intelligence: Unitary Theory, Two Factor Theory, 3-D Model of Intellect, Process Theories of Intelligence, Multi-factor Theory (Howard Gardener), Emotional Intelligence, Social Intelligence, Spiritual Intelligence and Cultural Intelligence

Texts:

Neisser, U. (1967). *Cognitive psychology*. New York: Appleton-Century-Crofts.
Solso, R. L. (2007). *Cognitive psychology*. (8th ed.). New Delhi: Pearson Education.
Eysenck, M.W. & M. T. Keane. (2000). *Cognitive psychology - A student's handbook*, Psychology Press Ltd.

References:

Goldstein, E. B. (2015). *Cognitive Psychology: Connecting mind, research, and everyday experience*. (4th ed.). Belmont, CA: Wadsworth/Cengage.

Mesulam, M. M. (2000). *Principles of behavioral and cognitive neurology*. New York: Oxford University Press.

Newell, A. (1990). *Unified theories of cognition*. Cambridge, MA: Harvard University Press.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

SCIENCE OF HAPPINESS

Course Name	Course Code	LTP	Credit	Semester
SCIENCE OF HAPPINESS	PSY305	2:1:0	3	3

. COURSE LEARNING OUTCOMES (CLO)

CLO1	Demonstrate knowledge about the theory and research related to happiness.
CLO2	Identify a wide range of factors that promote and affect happiness.
CLO3	Studying the physical, mental and social aspect of happiness. Also reflecting on the religious and spiritual aspect of happiness.

B. SYLLABUS

Course Objective:

To enable the students to acquire meaningful knowledge of various aspects of happiness. Also to apply the concepts with a holistic view to deal with the barriers in day-to-day life.

Course Contents:

Module I: Happiness – 8 hours

Positive and Negative Affectivity
The Effects & Causes of Happiness
Culture and Happiness
Relationships and Happiness

Module II: Happiness and its Physical Aspects – 7 hours

The Problem of Happiness
Physical Needs
Sound Bodies
How to Sleep

Module III: Happiness and its Mental Aspects – 7 hours

Seeing and remembering
Thinking
Self Knowledge

Module IV: Happiness and its Social Aspects – 7 hours

Work and Play
Youth V/s Age
Gold V/s Ideal

Module V: Happiness and Morality – 7 hours

The Religious and Spiritual Concepts of Happiness

Text:

Williams, H.S., *The Science of Happiness*, Oxford University
C. R. Snyder, Shane J. Lopez, *Positive Psychology: The Scientific and Practical Explorations of Human Strengths*
C. R. Snyder, Shane J. Lopez, *The Handbook of Positive Psychology*

References:

Gilman, R., Furlong, M., & Huebner, E.S. (2009). *A Handbook of Positive Psychology in Schools*. USA: Routledge
Boniwell, I. (2012). *Positive Psychology in a Nutshell*. UK: Open University Press
Goleman, D. (2009). *Emotional Intelligence*. UK: Bloomsbury Publications.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
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Weightage (%)	15	15	15	5	50
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MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class;
MA- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

COMMUNITY PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
COMMUNITY PSYCHOLOGY	PSY306	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Explore history of community psychology and various models of mental health services.
CLO2	Identify the role of various models, concept of community-based rehabilitation, and issues and challenges of different groups of community.
CLO3	Analyse various models of community mental health services, community-based rehabilitation and issues of different communities of society.

B. SYLLABUS

Course Objectives: This course would help the students be acquainted with the students about the history & present status of community mental health services. It would also help them develop a community based orientation towards mental health.

Module I: Introduction to community psychology – 7 hours

Social Psychology: Introduction to social psychology; Process of socialization; Group influence; Group dynamics; Social perception; Attitudes

Community psychology: Definition and perspectives with reference to mental health, organizational health and social action.

Module II: Mental health and Community Psychology – 8 hours

Mental health: Definition and characteristics of good mental health. Characteristics of positive health. Global epidemic of mental disorders. Prevention, identification and intervention services with regard to mental health problems and disability at the community level and quality of life,

Module III: Community based rehabilitation – 7 hours

Community based rehabilitation (CBR): Issues, principles, Health promotion: process of community organization for health promotion, importance. Community program for: child and maternal health, physical challenged and old age in the Indian context.

Module IV: Crisis Intervention – 7 hours

The concept of crisis and the techniques of intervention.

Module V: Interventions in Community mental health – 7 hours

Unit V: Different levels of intervention at the community level with special reference to mental retardation, learning disability, autism, and common mental health problems.

Text:

Duffy, Karan (2002). Community Psychology (3rd Ed.), Allyn & Bacon.

Iscoe, I. Block, B.L. & Spielberger, CD (Eds.) (1997). Community psychology: Perspectives in training and research. Appleton Century Crofts. NY.

Kapur, M. (1995). Mental health of Indian Children, Sage Pub.

References:

Mandelbawn, B. (1972). Society in India. Popular Prakashan. Bombay.

Mann, P.A. (1978). Community Psychology: Concepts and Applications. The Free Press. Moritsugu,

John, Duffy, Karan and Worg Frank (2009). Community Psychology,

Korchin, S.J. (1976). Modern Clinical Psychology, Part 5 on Community Psychology, New Delhi, CBS Publications.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
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Weightage (%)	15	15	15	5	50
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MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

EDUCATIONAL PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
EDUCATIONAL PSYCHOLOGY	PSY401	2:1:0	3	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	1. Investigate role of individual differences, personality, creativity, needs of exceptional children in relation education.
CLO2	Identify and describe role various factors that contribute in better education of pupil.
CLO3	Apply various concepts and principles of psychology in the field of education.
CLO4	Relate the concepts of psychology in learning process of pupils of difference age group.

B. SYLLABUS

Course Objective:

Through this course students will be able to apply the knowledge of experimental, social and child psychology and theories related to learning, motivation and transfer of learning to educational setup. Course also spans knowledge about individual differences, problems of adjustment in the classroom and about special education.

Course Contents:

Module I: Relationship of Psychology to Education – 7 hours

Nature and Scope of Educational Psychology

Methods of Educational Psychology: Differential, Clinical and Experimental

Concept of Growth and Development: Physical, Mental, Social and Emotional Development during childhood and adolescence

Module II: Individual Differences – 7 hours

Individual Differences: Concept and Areas

Determinants of Individual Differences

Role of Heredity and Environment in developing Individual Differences

Implications of Individual differences for organizing educational program

Module III: Learning & Motivation – 8 hours

Concept and Theories of learning: Trial & Error learning, Conditioning and Cognitive learning theory, Contribution of Gestalt.

Perpetual approach to learning; Gagne's hierarchy of learning types;

Factors influencing learning, Educational Implications

Theories of motivation, Factors affecting motivation, Educational Implications

Module IV: Personality & Creativity – 7 hours

Meaning of personality, Trait and Type Approaches to Personality

Assessment of personality by subjective, objective and projective techniques

Role of teacher in fostering individual's personality.

Creativity: nature and characteristics

Development of creativity, Theories, Assessment and identification of creativity.

Role of teachers in fostering creativity.

Module V: Children with Special needs and Education – 7 hours

Exceptional Children: Gifted, Mentally Retarded, Backward children, Children with learning disabilities

Educational Implications

Text:

Dash, M. & Dash, N. (2005). *Fundamentals of educational psychology*. New Delhi: Atlantic Publishers and Distributors (P) Ltd.

Mangal, S. K. (2002). *Advanced educational psychology*. New Delhi: Prentice Hall of India Pvt. Ltd.

References:

Pathak, R.P. (2011). *Educational psychology*. New Delhi: Pearson

Chauhan, S.S. (2009). *Advanced educational psychology*. New Delhi: Vikas Publishing House.

Aggarwal, J.C. (1996). *Theory and principles of education*. New Delhi: Vikas Publishing House.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

DEFENCE PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
DEFENCE PSYCHOLOGY	PSY402	2:1:0	3	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Demonstrate knowledge of the major theoretical frameworks in study of Forensic psychology.
CLO2	Identify the dynamics of Psychology of Law and Crime.
CLO3	To contextualize the importance of understanding psychology of violence and significance of correctional psychology.

B.SYLLABUS

Course Objectives:

Students will learn about fundamental research in contemporary defence psychology (democracies of the western world). Students will be given a review of current status of defense system.

Course Contents:

Module I: Military psychology – 7 hours

Nature, scope, historical perspective, contemporary issues and emerging trends in military psychology.

Module II: Selection and Training of Military Personnel – 8 hours

Assessment of psychomotor, spatial abilities, interest, aptitudes, and personality; Training- training needs analysis, types and methods of training, evaluation and monitoring.

Module III: Social Factors in military – 7 hours

Leadership and subordination - Conformity, compliance and obedience, maintaining interpersonal relations, group cohesion, morale and motivation.

Module IV: Human factors in Military Organizations – 7 hours

Human errors, safety and accidents, ergonomics and system design; Vigilance, Complacency.

Module V: Environmental factors and Health Issues – 7 hours

Effects of extreme environmental conditions and deprivation on military performance; Mental health issues in military: depression, alcoholism, substance abuse, suicide, combat stress, post-traumatic stress, coping with stress.

Text:

Anastasi, A., & Urbina, S. (2003). *Psychological testing*. Prentice Hall: New Delhi.
 Hall, R., & Mangelsdroff, D. (1991). *Handbook of military psychology*. John Wiley: USA.
 Kennedy, C.H., & Zillmer, E.A. (2006). *Military psychology: Clinical and operational applications*. Guilford: New York, USA.

References:

Ramachandran, K. (in press). *Handbook of military psychology*. Delhi: DIPR.
 Shalit, B. (1988). *The psychology of conflict and combat*. Praeger: NY.
 Reuven, G., Adavid, M., & Dorff, A. (1991). *Handbook of Military Psychology*. USA, John Wiley Sons.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class;
MA- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

SCHOOL COUNSELLING

Course Code: PSY406

L:2,T:1,P:0,C:03

Course Name	Course Code	LTP	Credit	Semester
SCHOOL COUNSELLING	PSY406	2:1:0	3	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Demonstrate knowledge of the key theoretical concepts related to School Counseling
CLO2	The students will acquire the attitudes, knowledge, and skills that contribute to effective learning in school and across the life span.
CLO3	The student will understand the relationship of academics to the world of work and to life at home and in the community.
CLO4	Examine various issues of school Counseling (e.g., School related problems, Academic, Study, career, personal & family problems).
CLO5	Analyse and critically evaluate ethical, legal and personal issues of the adolescents.

B. SYLLABUS

Course Objective:

This is to enable the students to develop an understanding of counseling within school setup, which is collaborative work of counselor and other school staff.

Course Contents:

Module I: Introduction – 7 hours

Guidance & Counseling

Need and importance of guidance and counseling in school

Module II: Counselor in Educational Setting – 7 hours

Elementary School, Middle School, Secondary School & Higher Secondary

Counseling & Curriculum, Counseling & Family

Module III: Role of Personal Guidance – 7 hours

Principal, Teacher, Counselor, Career Counselor, Parents & other Specialists

Importance of holistic approach in counseling

Module IV: Mental Health of Students – 8 hours

Major difficulties of students and Supportive Services

Students' perspective of Mental Health

Role of Faith & Spirituality in Students' mental Health

Module V: Experience of Transition – 7 hours

Concept of change, Adjustment & Transition

Transition & Students' experiences

Text:

Belkin, G.S. (1998), Introduction to Counselling; W.C.: Brown Publishers

Nelson, J. (1982), The Theory and Practice of Counselling Psychology; New York: Holt Rinehart & Winston.

References:

Ben, N. Ard, Jr. (Ed.) (1997), Counselling and Psychotherapy: Classics on Theories and Issues; Science and Behaviour Books Co.

Brammer, L.M. & Shostrom, E.L. (1977), Therapeutic psychology: Fundamentals of Counselling Psychotherapy; (3rd Ed.). Englewood Cliffs: Prentice Hall

Udupa, K.N. (1985). Stress and its Management by Yoga; Delhi: Moti Lal Bansari Das.

Windy, D. (1988) (ed.), Counselling in Action; New York: Sage Publication.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

FORENSIC PSYCHOLOGY

Course Name	Course Code	LTP	Credit	Semester
FORENSIC PSYCHOLOGY	PSY502	2:1:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Demonstrate knowledge of the major theoretical frameworks in study of Forensic psychology.
CLO2	Identify the dynamics of Psychology of Law and Crime.
CLO3	To contextualize the importance of understanding psychology of violence and significance of correctional psychology.

B.SYLLABUS

Course Objective:

This course will give an overview of forensic psychology and its applications. This would help students understand the legal aspects of forensic psychology, the significance of criminal profiling. They will know the importance of psychological assessment in gauging criminal behavior.

Course Contents:

Module I: Basics of Forensic Psychology – 7 hours

Introduction to Forensic Psychology: Historical overview, Functions of Forensic Psychologists, Psychology and law, Ethical issues in forensic psychology

Module II: Psychology of Crime – 7 hours

Developmental Theories and Psychobiological bases of crime, Risk Assessment & Violence Prediction. Psychology of evidence – eyewitness testimony, expert testimony, confession evidence. Criminal profiling. Psychology in the courtroom, with special reference to Section 84 IPC.

Module III: Psychological Investigation of Crime – 8 hours

Scientific Lie Detection: Polygraph, Verbal & Non-Verbal Cues, statement analysis, Hypnosis and Narcoanalysis, Behavioural Analysis; brain electrical oscillation signatures – principle and theory,

Module IV: Psychology of Violence – 7 hours

Workplace and domestic violence, Victim Psychology

Understanding the criminal personality- antisocial personality, psychopath & sociopath; Personality Profiling

Module V: Criminal Justice System Board – 7 hours

Components of criminal justice system. Policing styles and principles. Police's power of investigation. Filing of criminal charges. Community policing. Policing a heterogeneous society. Human rights and criminal justice system in India.

Text:

Snyder, J. W. (1997). Review of Scientific Evidence in Civil and Criminal Cases. *Journal of Forensic Science*, 42(1), 162-165.

Brettell, T. A., Butler, J. M., & Saferstein, R. (2005). Forensic science. *Analytical chemistry*, 77(12), 3839-3860.

References:

DeLadurantey, J. C., & Sullivan, D. R. (1980). *Criminal investigation standards*. New York: Harper & Row.

Niehaus, J. (1998). *Investigative forensic hypnosis*. CRC Press.

Siegel, J. A., & Saukko, P. J. (2012). *Encyclopedia of forensic sciences*. Academic Press.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
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Weightage (%)	15	15	15	5	50
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MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class;
MA- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam

CRIME AND DELINQUENCY

Course Name	Course Code	LTP	Credit	Semester
CRIME AND DELINQUENCY	PSY506	2:1:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Explore importance of criminology.
CLO2	Identify the causes of criminal behaviour.
CLO3	Analyse significance of criminal profiling to mitigate crime in society.

B.SYLLABUS

Course Objective:

This course would help students understand importance of criminology, the causes of criminal behavior, the significance of criminal profiling to mitigate crime. They will also learn the consequences of crime in society and the elements of criminal justice system.

Course Contents:

Module I: Basics of Criminology – 7 hours

Definition, aims and scope. The History of Psychological Perspectives on Crime. Theories of criminal behaviour – classical, positivist, sociological. Criminal anthropology. Understanding modus operandi. Investigative strategy. Role of media.

Module II: Crime Elements – 7 hours

Nature, causes and consequences of crime, types of crime, approaches to understand criminal behaviour: biological, cognitive, psychological and social perspectives, Psychological Disorders and Criminality.

Module III: Psychology and Criminal Behaviour – 8 hours

Psychopathology and personality disorder. Psychological assessment and its importance. Serial murderers, Psychology of terrorism. Biological factors and crime – social learning theories, psycho-social factors, abuse.

Module IV: Crime and Delinquency – 7 hours

Juvenile delinquency – theories of offending (social cognition, moral reasoning), Child abuse (physical, sexual, emotional), juvenile sex offenders, legal controversies.

Module V: Crime and Punishment – 7 hours

Definition, Theories of punishment: Deterrent, Retributive and Reformative Punishment
Coping with criminal victimization, rehabilitation of victim and offender

Text:

James, S. H., & Nordby, J. J. (2002). Forensic science: an introduction to scientific and investigative techniques. CRC press.

Zulawski, D. E., Wicklander, D. E., Sturman, S. G., & Hoover, L. W. (2001). Practical aspects of interview and interrogation. CRC press.

References:

Cooper, S., & Tiffin, P. A. (2006). Psychological assessment and treatment of adolescent offenders with psychopathic personality traits. Journal of Educational and Child Psychology, 62-74.

Verma, R., & Thakur, S. (2020). Sexual Harassment of Women at Workplace: Its Magnitude and Prevalence in India. Studies in Indian Place Names, 40(71), 3209-3220.

Brettell, T. A., Butler, J. M., & Saferstein, R. (2005). Forensic science. Analytical chemistry, 77(12), 3839-3860.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
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Weightage (%)	15	15	15	5	50
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MTE- Mid Term Exam; **CT-**Class Test; **H-**Home Assignment; **P-**Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class;
MA- Movie Analysis; **CS-** Case study; **DP-** Discursive paper; **A-**Attendance; **EE-**End Session Exam

HUMAN RESOURCE MANAGEMENT

Course Name	Course Code	LTP	Credit	Semester
HUMAN RESOURCE MANAGEMENT	PSY603	2:1:0	3	6

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Demonstrate knowledge about the field of Human Resource Management and its functions.
CLO2	Compare and contrast the major organisational functions.
CLO3	Recognize career options in Human Resource Management.
CLO4	Analyse and critically evaluate the ethical and legal issues in Human Resource Management
CLO5	Demonstrate awareness of the complex role Human Resource Management.

B.SYLLABUS

Course Objective:

This course would enable students to understand perspective on human resource issues and build a foundation for assisting organizations in resolving human resource problems.

Course Contents:

Module I: Introduction to Human Resource Management – 7 hours

Concepts and nature of human resource management
Foundation and functions of human resource management

Module II: Employees Selection – 7 hours

Selection process and methods, Job analysis
Biographical information; interviews; references and letters of recommendation
Psychological testing; types of psychological tests

Module III: Training and development – 7 hours

Scope and goals of training programme
Training needs analysis; training methods

Module IV: Performance management – 7 hours

Nature and methods. Performance appraisal for managers
Biases in performance appraisal; post-appraisal interview

Module V: Stress in the workplace – 7 hours

Occupational health; work-family conflicts
Causes and of stress at the workplace
Management of stress

Text:

Schultz & Schultz (2006). Psychology & Work Today, Pearson Education
Glimer, B.V.H. (1991). Industrial and organizational psychology, Tokyo: McGraw Hill. Kogakushra.
Wexley, K.N., & Yukl, G.A. (1987). Organizational behaviour and personal psychology. Illinois: Richard Irvin.

References:

Decenzo, D.A., & Robbins, S.P. (2003). Foundations of Human Resource Management
Beardwell, I. & Hadden, L. (1996). Human Resource Management: A contemporary perspective, New Delhi: Macmillan India Ltd.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam



AMITY INSTITUTE OF CLINICAL PSYCHOLOGY (AICP)

Course Name	Course Code	LTP	Credit	Semester
Psychosocial Foundations of Behaviour	HCP101	6:0:0	6	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstrate/ describe a working knowledge of the theoretical application of the psychosocial model to various disorders.
CLO 2	Demonstrate an awareness of the range of mental health problems with which clients can present to services, as well as their psychosocial/contextual mediation.
CLO 3	Carry out the clinical workup of clients with mental health problems and build psychosocial formulations and interventions, drawing on their knowledge of psychosocial models and their strengths and weaknesses.
CLO4	Apply and integrate alternative or complementary theoretical frameworks, for example, biological and/or religious perspectives, socio-cultural beliefs and practices, etc. in the overall management of mental health problems

B. SYLLABUS

Module- I: Introduction: Scope of clinical psychology; overview of the profession and practice; history and growth; professional role and functions; current issues and trends; areas of specialization; ethical and legal issues; code of conduct.

Module - II: Mental health and illness: Mental health care – past and present; stigma and attitude towards mental illness; concept of mental health and illness; perspectives – psychodynamic, behavioral, cognitive, humanistic, existential and biological models of mental health/illness;

Module - III: Epidemiology: Epidemiological studies in Indian context; socio-cultural correlates of mental illness, mental health, psychological well-being and quality of life.

Module - IV: Self and relationships: Self-concept, self-image, self-perception and self-regulations in mental health and illness; learned helplessness and attribution theories; social skill model; interpersonal and communication models of mental illness; stress diathesis model, resilience, coping and social support.

Module - V: Family influences: Early deprivation and trauma; neglect and abuse; attachment; separation; inadequate parenting styles; marital discord and divorce; maladaptive peer relationships; communication style; family burden; emotional adaptation; expressed emotions and relapse.

Module - VI: Societal influences: Discrimination in race, gender and ethnicity; social class and structure, poverty and unemployment; prejudice, social change and uncertainty; crime and delinquency; social tension & violence; urban stressors; torture & terrorism; culture shock; migration; religion & gender related issues with reference to India.

Module - VII: Disability: Definition and classification of disability; psychosocial models of disability; impact, needs and problems; issues related to assessment/certification of disability – areas and measures.

Module - VIII: Rehabilitation: Approaches to rehabilitation; interventions in the rehabilitation processes; models of adaptation to disability; family and care-givers issues; rights of mentally ill; empowerment issues; support to recovery.

Module - IX: Policies and Acts: Rehabilitation Policies and Acts (Mental Health Act of 1987, National Mental Health Program 1982, the Persons With Disabilities (equal opportunities, protection of rights and full participation) Act 1995; Rehabilitation Council of India (RCI) Act of 1992, National Trust for Mental Retardation, CP and Autistic Children 1999, Juvenile Justice Act of 1986; Mental Health Care Bill 2011; ethical and forensic issues in psychiatry practice); assistance, concessions, social benefits and support from government and voluntary organizations; contemporary challenges; rehabilitation ethics and professional code of conduct.

Part – B (Psychopathology)

Module - X: Introduction to psychopathology: Definition; concepts of normality and abnormality; clinical criteria of abnormality; continuity (dimensional) versus discontinuity (categorical), and prototype models of psychopathology; classification and taxonomies – reliability and utility; classificatory systems, currently in use and their advantages and limitations. Approach to clinical interviewing and diagnosis; case history; mental status examination; organization and presentation of psychiatric information; diagnostic formulation.

Module - XI: Psychological theories: Psychodynamic; behavioral; cognitive; humanistic; interpersonal; psychosocial; and other prominent theories/models of principal clinical disorders and problems, viz. anxiety, obsessive compulsive, somatoform, dissociative, adjustment,

sexual, substance use, personality, suicide, childhood and adolescence, psychotic, mood disorders, and culture-specific disorders.

Module - XII: Indian thoughts: Concept of mental health and illness; nosology and taxonomy of mental illness; social identity and stratification (Varnashrama Vyawastha); concept of – cognition, emotion, personality, motivation and their disorders.

Essential References:

- Achenback, T.M. (1974). *Developmental Psychopathology*. New York: Ronald Press.
- Brislin, R. W. (1990). *Applied Cross cultural psychology*. New Delhi: Sage publications.
- Buss, A.H. (1966). *Psychopathology*. NY: John Wiley & Sons.
- Carson, R.C, Butcher, T.N, Mureka, S. & Hooley, J.M. (2007). *Abnormal Psychology* (13th ed.). New Delhi: Dorling Kindersley Pvt Ltd.
- Cole, J.O. & Barrett, J.E. (1980). *Psychopathology in the aged*. New York: Raven Press.
- Fish, F, & Hamilton, M (1979). *Fish's Clinical Psychopathology*. Bristol:John Wright & Sons.
- Irallagher, B. J. (1995). *The sociology of mental illness* (3rd ed.). New York: Prentice hall.
- Kakar, S. (1981). *The Inner world: a psychoanalytic study of childhood and society in India*. New Delhi: Oxford University Press.
- Kapur, M. (1995). *Mental Health of Indian Children*. New Delhi: Sage publications.
- Klein, D.M. & White, J.M. (1996). *Family theories – An introduction*. New Delhi: Sage Publications.
- Krahe, B. (1992). *Personality and Social Psychology: Towards a synthesis*. New Delhi: Sage Publications.
- Kuppuswamy, B. (1965). *An Introduction to Social Psychology* (2nd ed.). New Delhi: 19 Konark Publishers.
- Kuppuswamy, B. (1990). *Elements of ancient Indian Psychology* (1st ed.). New Delhi: Konark Publishers.
- Lindzey, G., & Aronson, E. (1975). *Handbook of Social Psychology* (Vols. 1 & 5). New Delhi: Amerind Publishing.
- Madan, G.R (2003). *Indian Social Problems* (Vols. 1-2). New Delhi: Allied Publishers Pvt. Ltd
- Mash, E.J & Wolfe, D.A. (1999). *Abnormal Child Psychology*. New York: Wadsworth Publishing
- Millon, T., Blaney, P.H. & Davis, R.D. (1999). *Oxford Textbook of Psychopathology*. New York: Oxford University.
- Pfeiffer, S.I. (1985). *Clinical Child Psychology*. New York: Grune & Stratton.
- Radley, A. (1994). *Making sense of illness: The social psychology of health and disease*. New Delhi: Sage Publications.
- Rao, H.S.R & Sinha D. (1997). *Asian perspectives in Psychology* (Vol. 19). New Delhi: Sage publications:

- Saraswathi, T.S (1999). Culture, Socialization and human development. New Delhi: Sage publications.
- Walker, C.E & Roberts, M.C. (2001). Handbook of Clinical Child Psychology (3rd ed.). Canada: John Wiley & Sons.



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AMITY INSTITUTE OF CLINICAL PSYCHOLOGY (AICP)

Course Name	Course Code	LTP	Credit	Semester
Statistics & Research Methodology	HCP102	6:0:0	6	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO1	Present a critical analysis of intervention related research articles and propose their own methods/design of replicating such research.
CLO2	Understand experimental design issues - control of unwanted variability, confounding and bias.
CLO3	Take account of relevant factors in deciding on appropriate methods and instruments to use in specific research projects.
CLO4	Understand the limitations and shortcomings of statistical models.
CLO5	Apply relevant design/statistical concepts in their own particular research projects.
CLO6	Analyze data and interpret output in a scientifically meaningful way.
CLO7	Generate hypothesis/hypotheses about behavior and prepare a research protocol outlining the methodology for an experiment/survey.
CLO8	Critically review the literature to appreciate the theoretical and methodological issues involved.

B. SYLLABUS

Module - I: Introduction: Various methods to ascertain knowledge, scientific method and its features; problems in measurement in behavioral sciences; levels of measurement of psychological variables - nominal, ordinal, interval and ratio scales; test construction - item analysis, concept and methods of establishing reliability, validity and norms.

Module - II: Sampling: Probability and non-probability; various methods of sampling – simple random, stratified, systematic, cluster and multistage sampling; sampling and non-sampling errors and methods of minimizing these errors.

Module - III: Concept of probability: Probability distribution - normal, poisson, binomial; descriptive statistics - central tendency, dispersion, skewness and kurtosis.

Module - IV: Hypothesis testing: Formulation and types; null hypothesis, alternate hypothesis, type I and type II errors, level of significance, power of the test, p-value. Concept of standard error and confidence interval.

Module - V: Tests of significance - Parametric tests: Requirements, "t" test, normal z-test, and "F" test including post-hoc tests, one-way and two-way analysis of variance, analysis of covariance, repeated measures analysis of variance, simple linear correlation and regression.

Module – VI: Tests of significance - Non-parametric tests: Assumptions; One-sample tests (sign test, Mc Nemer test); two-sample test (Mann Whitney U test, Wilcoxon rank sum test); k-sample tests (Kruskal Wallies test, and Friedman test) and chi-square test.

Module - VII: Experimental design: Randomization, replication, completely randomized design, randomized block design, factorial design, crossover design, single subject design, non-experimental design.

Module - VIII: Epidemiological studies: Epidemiological studies: Rates- Prevalence and incidence; Types- Prospective and retrospective studies; Diagnostic Efficiency Statistics (sensitivity, specificity, predictive values); Risk Estimation- odds ratio and survival analysis.

Module - IX: Multivariate analysis: Introduction, Multiple regression, logistic regression, factor analysis, cluster analysis, discriminant function analysis, path analysis, MANOVA, Canonical correlation, and Multidimensional scaling.

Module - X: Sample size estimation: Sample size determination for estimation of mean, estimation of proportion, comparing two means and comparing two proportions.

Module - XI: Qualitative analysis of data: Content analysis, qualitative methods of psychosocial research.

Module - XII: Use of computers: Use of relevant statistical package in the field of behavioural science and their limitations.

Essential References:

- B.L. (2007). Qualitative Research: Methods for the social sciences (6th ed.). New York: Pearson Education.
- Daniel, W.W. (2005). Biostatistics: a foundation for analysis in health sciences (8th ed.). New York: John Wiley and Sons.
- Dillon, W.R. & Goldstein, M. (1984). Multivariate analysis: Methods & Applications. New York: John Wiley & Sons.
- Hassart, T.H. (1991). Understanding Biostatistics. ST. Louis: Mosby Year Book.
- Kerlinger, F.N. (1995). Foundations of Behavioral Research. New York: Holt, Rinehart & Winston.
- Kothari, C. R. (2003). Research Methodology. New Delhi: Wishwa Prakshan.

- Siegal, S. & Castellan, N.J. (1988). Non-parametric statistics for the behavioral sciences. McGraw Hill: New Delhi



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Course Name	Course Code	LTP	Credit	Semester
Psychiatry	HCP103	6:0:0	6	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstrate an understanding of a clinically significant behavioral and psychological syndrome and differentiate between child and adult clinical features/presentation.
CLO 2	Understand that in many ways the culture, biological, societal and familial practices shape the clinical presentation of mental disorders and understand the role of developmental factors in adult psychopathology.
CLO 3	Carryout the clinical work up, psychological assessment of clients presenting with the range of mental health problems and make clinical formulations/diagnosis drawing on their knowledge of a pertinent diagnostic criteria and phenomenology.
CLO4	Discuss various pharmacological agents that are used to treat common mental disorders and their mode of action.
CLO5	Assess the disability/dysfunctions and understand medico legal emergencies.

B. SYLLABUS

Module - I: Signs and symptoms: Disorders of consciousness, attention, motor behavior, orientation, experience of self, speech, thought, perception, emotion, and memory.

Module - II: Psychoses: Schizophrenia, affective disorders, delusional disorders and other forms of psychotic disorders – types, clinical features, etiology and management.

Module - III: Neurotic, stress-related and somatoform disorders: types, clinical features, etiology and management.

Module - IV: Disorders of personality and behavior: Specific personality disorders; mental & behavioral disorders due to psychoactive substance use; habit and impulse disorders; sexual disorders and dysfunctions – types, clinical features, etiology and management.

Module - V: Organic mental disorders: Dementia, delirium and other related conditions with neurologic and systemic disorders – types, clinical features, etiology and management.

Module - VI: Behavioral, emotional and developmental disorders of childhood and adolescence: types, clinical features, etiology and management.

Module - VII: Mental retardation: Classification, etiology and management.

Module - VIII: Neurobiology of mental disorders: Neurobiological theories of psychosis, mood disorders, suicide, anxiety disorders, substance use disorders and other emotional and behavioral syndromes.

Module - IX: Therapeutic approaches: Drugs, ECT, psychosurgery, psychotherapy, and behavior therapy, preventive and rehabilitative strategies – half-way home, sheltered workshop, daycare, and institutionalization.

Module - X: Consultation-liaison psychiatry: Psychiatric consultation in general hospital; primary care setting.

Module - XI: Special populations/Specialties: Geriatric, terminally ill, HIV/AIDS, suicidal, abused, violent and noncooperative patients; psychiatric services in community, and following disaster/calamity.

Essential References:

- Gelder, M., Gath, D., & Mayon, R. (1989). Oxford Textbook of Psychiatry (2nd ed.). New York: Oxford University Press.
- Kaplan, B.J. & Sadock, V.A., (1995). Comprehensive Textbook of Psychiatry (6th ed.). London: William & Wilkins.
- Rutter, M. & Herson, L. (1994). Child and Adolescent Psychiatry: Modern approaches (3rd ed.). London: Blackwell Scientific Publications.
- Sims, A. & Bailliere, T. (1988). Symptoms in mind: Introduction to descriptive psychopathology. London: WB Saunders.
- Vyas, J.N. & Ahuja, N. (1999). Textbook of postgraduate psychiatry (2nd ed., Vols. 1-2). New Delhi: Jaypee brothers.



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Course Name	Course Code	LTP	Credit	Semester
Psychological Assessments including Viva Voce	HCP155	0:0:6	6	1
Submission of five cases of full-length Psychodiagnostics Report	HCP160	0:0:6	6	1

Group “A”

Paper I: Psychosocial Foundation of Behavior and Psychopathology

Paper II: Statistics and Research Methodology

Paper III: Psychiatry

Practical: Psychological Assessments including Viva Voce

Group “B”

Submission: Five full-length Psychodiagnostics Records, out of which one record each should be related to, child and neuropsychological assessment. The records should include a summary of the clinical history organized under relevant headings, and a discussion on a) rationale for testing, b) areas to be investigated, c) tests administered and their rationale, d) test findings and e) impression



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Course Name	Course Code	LTP	Credit	Semester
Psychological Assessments including Viva Voce	HCP155	0:0:6	6	1
Submission of five cases of full-length Psychodiagnostics Report	HCP160	0:0:6	6	1

Group “A”

Paper I: Psychosocial Foundation of Behavior and Psychopathology

Paper II: Statistics and Research Methodology

Paper III: Psychiatry

Practical: Psychological Assessments including Viva Voce

Group “B”

Submission: Five full-length Psychodiagnostics Records, out of which one record each should be related to, child and neuropsychological assessment. The records should include a summary of the clinical history organized under relevant headings, and a discussion on a) rationale for testing, b) areas to be investigated, c) tests administered and their rationale, d) test findings and e) impression



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Course Name	Course Code	LTP	Credit	Semester
Biological Foundations of Behaviour	HCP201	6:0:0	6	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Describe and explain the nature and basic functions of the nervous system (brain, biochemical processes, and endocrine system) and its units.
CLO 2	Discuss the principles of psychopharmacology and review the general role of neurotransmitters and neuromodulators in the brain.
CLO 3	Describe what kinds of clinical symptoms are often associated with lesions of frontal, parietal, temporal and occipital lobes of the brain.
CLO4	Describe what kinds of neuropsychological deficits are often associated with lesions of frontal, parietal, temporal and occipital lobes of the brain, and carry out the indicated neuropsychological assessment employing any valid battery of tests.

B. SYLLABUS

Part – A (Anatomy, Physiology and Biochemistry of CNS)

Module –I: Anatomy of the brain: Major anatomical sub-divisions of the human brain; the surface anatomy and interior structures of cortical and sub-cortical regions; anatomical connectivity among the various regions; blood supply to brain and the CSF system; cytoarchitecture and modular organization in the brain.

Module –II: Structure and functions of cells: Cells of the nervous system (neurons, supporting cells, blood-brain barrier); communication within a neuron (membrane potential, action potential); communication between neurons (neurotransmitters, neuromodulators and hormones).

Module – III: Biochemistry of the brain: Biochemical, metabolic and genetic aspect of Major mental disorders, mental retardation and behavioural disorders.

Module - IV: Neurobiology of sensory-motor systems and internal environment: Organization of sensory-motor system in terms of receptors and thalamocortical pathways and motor responses.

Module – V: Regulation of Internal Environment: Role of limbic, autonomic and the neuroendocrine system in regulating the internal environment; reticular formation and other important neural substrates regulating the state of sleep/wakefulness.

Module – VI : Neurobiology of Behaviour : Neurological aspects of drives, motivation, hunger, thirst, sex, emotions, learning and memory.

Module –VII: Neurotransmitters and behaviour: Role of neurotransmitters and neuromodulators (acetylcholine, monoamines, amino acids, peptides, lipids) in various aspects of behaviour including learning and memory.

Part – B (Neuropsychology)

Module –VIII: Introduction: Relationship between structure and function of the brain; the rise of neuropsychology as a distinct discipline, logic of cerebral organization; localization and lateralization of functions; approaches and methodologies of clinical and cognitive neuropsychologists.

Module-IX: Frontal lobe syndrome: Disturbances of regulatory functions; attentional processes; emotions; memory and intellectual activity; language and motor functions.

Module - X: Temporal lobe syndrome: Special senses – hearing, vestibular functions and integrative functions; disturbances in learning and memory functions; language, emotions, time perception and consciousness.

Module – XI: Parietal and occipital lobe syndromes: Disturbances in sensory functions and body schema perception; agnosias and apraxias; disturbances in visual space perception; color perception; writing and reading ability.

Module-XII: Neuropsychological profile of neuro-psychiatric conditions; Neuropsychological profile of cortical and subcortical dementia; major mental disorders and substance use disorders.

Module – XIII: Functional human brain mapping: QEEG, EP & ERP, PET, SPECT, fMRI

Module–XIV: Neuropsychological assessment: Introduction, principles, relevance, scope and indications for neuropsychological assessment and issues involved in neuropsychological assessment of children.

Module–XV: Neuropsychological rehabilitation: Principles, objectives and methods of neurorehabilitation of traumatic brain injury, organic brain disorders, major psychiatric disorders and behavioural disorders; scope of computer-based retraining, neurofeedback, cognitive aids.

Essential References:

- Bellack A.S. & Hersen M. (1998). Comprehensive clinical psychology- Assessment (Vol. 4). London: Elsevier Science Ltd.
- Carlson, N.R. (2005). Foundations of physiological psychology (6th ed.). New Delhi: Pearson Education Inc.
- Gazaaniga, M. S. (1984). Handbook of cognitive neuroscience. New York: Plenum Press. Golden, C.J. & Charles, C.T. (1981). Diagnosis & Rehabilitation in clinical neuropsychology. New York: Spring Field.
- Grant, I. & Adams, K.M. (1996). Neuropsychological assessment of neuropsychiatric disorders (2nd ed.). New York: Oxford University Press.
- Grant, I. & Adams, K.M. (1996). Neuropsychological assessment of neuropsychiatric disorders (2nd ed.). Oxford University Press: NY.
- Guyton, A.C. & Hall, J.E. (2006). Textbook of medical physiology. Philadelphia: Saunders Company.
- Jain, A.K. (2005). Textbook of physiology (Vol. 2). New Delhi: Avichal Publishing Company.
- Kandel, E. R, & Schwartz, J. H (1985). Principles of neural science. New York: Elsevier.
- Kirshner H.S, (1986). Behavioral Neurology. New York: Churchill Livingstone.
- Kolb, B. & Wishaw, I.Q. (2007). Fundamentals of human neuropsychology (6th ed). New York: Worth Publishers.
- Lezak, M.D. (1995). Neuropsychological assessment. New York: Oxford University Press.
- Prigatano, G.P. (1999). Principles of Neuropsychological Rehabilitation. New York: Oxford University Press.

- Rohrbaugh, J.W (1990). Event Related brain potentials – Basic issues & applications. New York: Oxford University Press.
- Snell, R.S. (1992). Clinical Neuroanatomy for Medical Students. Boston: Little Brown & Co.
- Stahl, S.M. (1998). Essential psychopharmacology. London: Cambridge University Press.
- Vinken, P.J, & Bruyn, G.W. (1969). Handbook of clinical neurology (Vols. 2, 4, 45 & 46). Amsterdam: North Holland Publishing Co.
- Vinken, P.J., & Bruyn, G.W., (1969). Handbook of clinical neurology (Vols. 2, 4 & 45). Amsterdam: North Holland Publishing Co.
- Vyas, J.N. & Ahuja, N (1999). Textbook of postgraduate psychiatry (2nd ed., Vols. 1- 2). New Delhi: Jaypee brothers.
- Walsh, K. (2003). Neuropsychology- A clinical approach (4th ed.). Edinburgh: Churchill Livingstone.



AMITY UNIVERSITY

— R A J A S T H A N —

AMITY INSTITUTE OF CLINICAL PSYCHOLOGY (AICP)

Course Name	Course Code	LTP	Credit	Semester
Psychotherapy and Counseling	HCP202	6:0:0	6	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Demonstrate an ability to provide a clear, coherent, and succinct account of patient's problems and to develop an appropriate treatment plan.
CLO 2	Demonstrate a sense of working collaboratively on the problem and ability to foster an effective alliance.
CLO 3	Carry out and use specialized assessments and interventions, drawing on their knowledge of pertinent outcome/evidence research.
CLO4	Demonstrate ability to link theory-practice and assimilate clinical, professional, academic and ethical knowledge in their role of a therapist.
CLO5	Present a critical analysis of intervention related research articles and propose their own methods/design of replicating such research.

B. SYLLABUS

Module - I: Introduction to Psychotherapy: Definitions, objectives, issues related to training professional therapists; ethical and legal issues involved in therapy work; rights and responsibilities in psychotherapy; issues related to consent (assent in case of minors); planning and recording of therapy sessions; structuring and setting goals; pre- and post-assessment; practice of evidence-based therapies.

Module - II: Therapeutic Relationship: Client and therapist characteristics; illness, technique and other factors influencing the relationship.

Module - III: Interviewing: Objectives of interview, interviewing techniques, types of interview, characteristics of structured and unstructured interview, interviewing skills

(micro skills), open-ended questions, clarification, reflection, facilitation and confrontation, silences in interviews, verbal and non-verbal components.

Module - IV: Affective psychotherapies: Origin, basis, formulation, procedures, techniques, stages, process, outcome, indications, and research & current status with respect to psychodynamic, brief psychotherapy, humanistic, existential, gestalt, person-centered, Adlerian, transactional analysis, reality therapy, supportive, clinical hypnotherapy, play therapy, psychodrama, and oriental approaches such as yoga, meditation, shavasana, pranic healing, reiki, tai chi etc.

Module – V: Behavior therapies: Origin, foundations, principles & methodologies, problems and criticisms, empirical status, behavioral assessment, formulations and treatment goals, Desensitization - (imaginal, in-vivo, enriched, assisted), Extinction - (graded exposure, flooding and response prevention, implosion, covert extinction, negative practice, stimulus satiation), Skill training - (assertiveness training, modeling, behavioral rehearsal), Operant procedures- (token economy, contingency management), Aversion - (faradic aversion, therapy, covert sensitization, aversion relief procedure, anxiety relief procedure and avoidance conditioning), Self-control procedures - (thought stop, paradoxical intention, stimulus satiation), Biofeedback – (EMG, GSR, EEG, Temp., EKG), Behavioral counseling, Group behavioral approaches, Behavioral family/marital therapies.

Module - VI: Cognitive therapies: Cognitive model, principles and assumptions, techniques, indications and current status of rational emotive behavior therapy, cognitive behavior therapy, cognitive analytic therapy, dialectical behavior therapy, problem-solving therapy, mindfulness based cognitive therapy, schema focused therapy, cognitive restructuring, and other principal models of cognitive therapies.

Module – VII: Systemic therapies: Origin, theoretical models, formulation, procedures, techniques, stages, process, outcome, indications, and research & current status with respect to family therapy, marital therapy, group therapy, sex therapy, interpersonal therapy and other prominent therapies.

Module – VIII: Physiological therapies: Origin, basis, formulation, procedures, techniques, stages, process, outcome, indications, and current status with respect to progressive muscular relaxation, autogenic training, biofeedback, eye movement desensitization and reprocessing, and other forms of evidence-based therapies.

Module – IX: Counseling: Definition and goals, techniques, behavioral, cognitive and humanistic approaches, process, counseling theory and procedures to specific domains of counseling.

Module - X: Therapy in special conditions: Therapies and techniques in the management of deliberate self-harm, bereavement, traumatic, victims of man-made or natural disasters, in crisis, personality disorders, chronic mental illness, substance use, HIV/AIDS, learning disabilities, mental retardation, and such other conditions where integrative/eclectic approach is the basis of clinical intervention.

Module - XI: Therapy with children: Introduction to different approaches, psychoanalytic therapies (Ana Freud, Melanie Klein, Donald Winnicott); special techniques (behavioral and play) for developmental internalizing and externalizing disorders; therapy in special conditions such as psychophysiological and chronic physical illness; parent and family counseling; therapy with adolescents.

Module – XII: Psychoeducation (therapeutic education): Information and emotional support for family members and caregivers, models of therapeutic education, family counseling for a collaborative effort towards recovery, relapse-prevention and successful rehabilitation with regard to various debilitating mental disorders.

Module – XIII: Psychosocial rehabilitation: Rehabilitation services, resources, medical and psychosocial aspects of disability, assessment, group therapy, supportive therapy and other forms of empirically supported psychotherapies for core and peripheral members.

Module - XIV: Indian approaches to Psychotherapy: Yoga, Meditation, Mindfulness – based intervention: methods, processes and outcome.

Module - XV: Contemporary issues and research: Issues related evidence-based practice, managed care, and research related to process and outcome.

Essential References:

- Aronson, M. J. & Scharfman, M.A. (1992). Psychotherapy: The analytic approach. New York: Jason Aronson, Inc.
- Baker, P, (1992). Basic family therapy. New Delhi: Blackwell Scientific Pub.
- Bellack, A.S. & Hersen, M., (1998). Comprehensive Clinical Psychology (Vol. 6). London:Elsiever Science Ltd.

- Bellack, A.S., Hersen, M., & Kazdin, A.E. (1985). International handbook of behavior modification and therapy. New York: Plenum Press.
- Bellack, A. S. & Hersen, M. (1985). Dictionary of behavior therapy. New York: Pergamon Press.
- Bergin, A.G. & Garfield, S. L. (1978). Handbook of Psychotherapy & Behavior change – An empirical analysis. New York: John Wiley & Sons.
- Bloch, S (2000). An introduction to the psychotherapies (3rd ed.). New York: Oxford Medical Publications.
- Capuzzi, D. & Gross, D.R. (2003). Counseling and Psychotherapy: Theories and interventions (3rd ed.). New Jersey: Merrill Prentice Hall.
- Clark, D.M. & Fairburn, C.G. (2001). Science and practice of CBT. London: Oxford University press.
- Dobson, K.S., & Craig, K.D. (1996). Advances in cognitive behavior therapy. New York: Sage Publications.
- Dryden, W. (1995). Rational Emotive Behaviour Therapy. New Delhi: Sage.
- Dryden, W. (2002). Handbook of individual therapy (4th ed.) New Delhi: Sage Publications.
- Eells, T.D (2007). Handbook of psychotherapy case formulation (2nd ed.). New York: Guilford press.
- Hersen M & Sledge W. (2002). Encyclopedia of psychotherapy (Vols. 1-2). New York: Academic Press.
- Freeman, A., Simon, K.M., Beutler L.E. & Arkowitz, M. (1988). Comprehensive Handbook of cognitive therapy. New York: Plenum Press.
- Friedberg R.D. & McClure, J.M. (2002). Clinical Practice of cognitive therapy with children and adolescents- The nuts and bolts. New York: Guilford Pres.
- Garfield, S. L. (1995). Psychotherapy: an eclectic integrative approach (2nd ed.). New York: John Wiley and son.
- Gibson, R.L. & Mitchell M.H. (2006). Introduction to counseling and guidance (6th ed.). New Delhi: Pearson.
- Graham, P.J. (1998). CBT for children and families (2nd ed.). London: Cambridge University Press.
- Greenson, R.R. (1967). The Technique and Practice of psychoanalysis (Vol. 1). New York: International Universities Press.

- Hawton, K. Salkovskis, P.M., Kirk, J. and Clark, D.M. (1989). Cognitive Behavior Therapy for psychiatric problems: A practical guide. New York: Oxford University Press.
- Klerman, G. L. & Weissman, M. M (1993). New Approach of Interpersonal Psychotherapy. Washington, DC.: American Psychiatric Press.
- Mash, E.J. & Wolfe, D.A. (1999). Abnormal child psychology. New York: Wadsworth Publishing.
- Rimm D.C., & Masters J.C. (1979). Behavior therapy: Techniques and empirical findings. New York: Academic Press.
- Sanders, D & Wills, F. (2005). Cognitive therapy: An introduction (2nd ed.). New Delhi: Sage Publications.
- Sharf, R.S. (2000). Theories of psychotherapy and counseling (2nd ed.). New York: Brooks/Cole.
- Turner, S.M, Calhour, K.S. & Adams, H.E.(1992). Handbook of clinical behavior therapy. New York: Wiley Interscience.
- Turner, S.M., Calhoun K.S., & Adams, H.E. (1992). Handbook of Clinical Behavior therapy. New York: Wiley Interscience.
- Walker, C.E. & Roberts, MC (2001). Handbook of clinical child psychology (3rd ed.). Ontario: John Wiley and Sons
- Wolberg, L.R. (1995). The techniques of psychotherapy (4th ed.). New York: Grune & Stratton.
- Wolman, B.B. & Stricker, G, (1983). Handbook of family and marital therapy. New York: Plenum.
- Wolman, B.B. (1967). Psychoanalytic techniques, a handbook for practicing psychoanalyst. New York: Basic Book.



AMITY UNIVERSITY

RAJASTHAN

AMITY INSTITUTE OF CLINICAL PSYCHOLOGY (AICP)

Course Name	Course Code	LTP	Credit	Semester
Behavioural Medicine	HCP203	6:0:0	6	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Appreciate the impact of psychological factors, psychosocial impact of an illness and psychosocial outcome on developing and surviving a systemic illness.
CLO 2	Understand the importance of physician-patient relationships and communication in determining health outcomes.
CLO 3	Understand of how basic principles of health psychology are applied in specific context of various health problems, and apply them with competence.
CLO4	Understand of how basic principles of health psychology are applied in specific context of various health problems and apply them with competence.
CLO5	Understand of how basic principles of health psychology are applied in specific context of various health problems and apply them with competence.
CLO6	Understand of how basic principles of health psychology are applied in specific context of various health problems and apply them with competence.
CLO7	Understand of how basic principles of health psychology are applied in specific context of various health problems and apply them with competence.

B. SYLLABUS

Module – I: Introduction: Definition, boundary, psychological and behavioural influences on health and illness, neuroendocrine, neurotransmitter and neuroimmune responses to stress, negative affectivity, behavioural patterns, and coping styles, psychophysiological

models of disease, theoretical models of health behavior, scope and application of psychological principles in health, illness and health care.

Module – II: Central nervous system: Cognitive, personality, behavioral, emotional disturbances in major CNS diseases like cerebrovascular (stroke, vascular dementia etc.), developmental (cerebral palsy), degenerative (Parkinson's etc.), trauma (traumatic brain and spinal cord injury), convulsive (epilepsy), and infectious (AIDS dementia), assessment and methods for psychological intervention and rehabilitation with such patients.

Module – III: Cardiovascular system: Psychosocial, personality, lifestyle, and health practice issues, psycho-behavioral responses including coping with illness and functional loss in hypertension, MI, following CABG and other cardiovascular conditions, salient issues with regard to quality-of-life and well-being, empirically proven methods of psychological management of CVS diseases.

Module – IV: Respiratory system: precipitants, such as emotional arousal, and other external stimuli, exacerbants such as anxiety and panic symptoms, effects, such as secondary gain, low self-esteem in asthma and other airway diseases, psychological, behavioral and biofeedback strategies as adjunct in the management.

Module – V: Gastrointestinal system: Evaluation of psychological factors including personality characteristics and stress/coping style in functional GI disorders such as irritable bowel syndrome, inflammatory bowel disease, peptic ulcer disease, esophageal disorder etc., role of psychotherapy, behavior modification, cognitive restructuring, biofeedback and relaxation training.

Module – VI: Genitourinary/renal/reproductive system: Psychosocial issues in male/female sexual dysfunctions, micturition/voiding problems including primary/secondary enuresis, end-stage renal disease, dialysis treatment, primary and secondary infertility, empirically validated psychological and behavioral interventions in these conditions.

Module – VII: Dermatology: Role of stress and anxiety in psycho-dermatological conditions such as psoriasis, chronic urticaria, dermatitis, alopecia and the impact of these on self-esteem, body image and mood, role of psychological interventions such as relaxation, stress management, counseling and biofeedback strategies.

Module – VIII: Oncology: Psychosocial issues associated with cancer - quality of life, denial, grief reaction to bodily changes, fear of treatment, side effects, abandonment, recurrence, resilience, assessment tools, and goals of interventions for individual and family, and therapy techniques.

Module – IX: HIV/AIDS: Model of HIV disease service program in India, pre- and post-test counseling, psychosocial issues and their resolutions during HIV progress, psychological assessment and interventions in infected adults and children, and family members/caregivers, highly active anti-retroviral treatments (HAART), neuropsychological findings at different stages of infection, issues related to prevention/spreading awareness and interventions in at risk populations.

Module – X: Pain: Physiological and psychological processes involved in pain experience and behaviour, assessment tools for acute and chronic pain intensity, behaviour, and dysfunctions/disability related to pain, psychological interventions such as cognitive, behavioural, biofeedback and hypnotic therapies.

Module – XI: Terminally ill: Medical, religious and spiritual definition of death and dying, psychology of dying and bereaved family, strategies of breaking bad news, bereavement and grief counseling, management of pain and other physical symptoms associated with end-of-life distress in patients with cancer, AIDS, and other terminal illness, professional issues related to working in hospice including working through one's own death anxiety, euthanasia – types, arguments for and against.

Module – XII: Other general clinical conditions: Application of psychological techniques and their rationale in the clinical care of patients in general medical settings where psychological services appears to affect the outcome of medical management positively, for example in diabetes, sleep disorders, obesity, dental anxiety, burns injury, pre- and post-surgery, preparing for amputation, evaluation of organ donors/recipient, pre- and post-transplantation, organ replacement, hemophiliacs, sensory impairment, rheumatic diseases, abnormal illness behavior, health anxiety etc.

Module – XIII: Contemporary Issues: Research and developments in health psychology, psychophysiology, psychoneuroimmunology, psychobiology, socio-biology, and their implications, and effects of psychotherapy on the biology of brain.

Essential References:

- Basmajian J.V. (1979). Biofeedback – Principles and practice for clinicians. Baltimore: Williams & Wilkins Company.
- Bellack, A.S., Hersen, M., & Kazdin, A.E. (1985). International handbook of behavior modification and therapy. New York: Plenum Press.
- Bellack, A. S. & Hersen, M. (1985). Dictionary of behavior therapy. New York: Pergamon Press.
- Dimatteo, M.R., & Martin, L.R. (2002). Health Psychology. New Delhi: Pearson.
- Lambert, M.J (2004). Handbook of Psychotherapy and behaviour change (5th ed.). New York: John Wiley and Sons.
- Rimm D.C. & Masters J.C. (1979). Behavior therapy: Techniques and empirical findings. New York: Academic Press.
- Sweet, J.J, Rozensky, R.H. & Tavian, S.M. (1991). Handbook of clinical psychology in medical settings. Plenum Press: NY
- Tunks, E & Bellismo, A. (1991). Behavioral medicine: Concepts & procedures. New York: Pergamon Press.
- Turner, S.M., Calhoun, K.S., & Adams, H.E. (1992). Handbook of Clinical Behavior therapy. New York: Wiley Interscience.
- Weinman, J., Johnston, M. & Molloy, G. (2006). Health Psychology (Vols. 1-4). London: Sage Publications



AMITY UNIVERSITY

— R A J A S T H A N —

AMITY INSTITUTE OF CLINICAL PSYCHOLOGY (AICP)

Course Name	Course Code	LTP	Credit	Semester
Psychological Assessments including Viva Voce	HCP155	0:0:6	6	1
Submission of five cases of full-length Psychodiagnostics Report	HCP160	0:0:6	6	1

Group “A”

Paper I: Psychosocial Foundation of Behavior and Psychopathology

Paper II: Statistics and Research Methodology

Paper III: Psychiatry

Practical: Psychological Assessments including Viva Voce

Group “B”

Submission: Five full-length Psychodiagnostics Records, out of which one record each should be related to, child and neuropsychological assessment. The records should include a summary of the clinical history organized under relevant headings, and a discussion on a) rationale for testing, b) areas to be investigated, c) tests administered and their rationale, d) test findings and e) impression



AMITY UNIVERSITY

— R A J A S T H A N —

AMITY INSTITUTE OF CLINICAL PSYCHOLOGY (AICP)

Course Name	Course Code	LTP	Credit	Semester
Psychological Assessments including Viva Voce	HCP155	0:0:6	6	1
Submission of five cases of full-length Psychodiagnostics Report	HCP160	0:0:6	6	1

Group “A”

Paper I: Psychosocial Foundation of Behavior and Psychopathology

Paper II: Statistics and Research Methodology

Paper III: Psychiatry

Practical: Psychological Assessments including Viva Voce

Group “B”

Submission: Five full-length Psychodiagnostics Records, out of which one record each should be related to, child and neuropsychological assessment. The records should include a summary of the clinical history organized under relevant headings, and a discussion on a) rationale for testing, b) areas to be investigated, c) tests administered and their rationale, d) test findings and e) impression



Course Name	Course Code	LTP	Credit	Semester
DISSERTATION	MBA455	0:0:18	9	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Selecting a topic for investigation
CLO 2	Establishing the precise focus of your study by deciding on the aims and objectives of the dissertation, or formulating questions to be investigated. Consider very carefully what is worth investigating and its feasibility
CLO 3	Drawing up initial dissertation outlines considering the aims and objectives of the dissertation. Workout various stages of dissertation
CLO 4	Devising a timetable to ensure that all stages of dissertation are completed in time. The timetable should include writing of the dissertation and regular meetings with your dissertation guide

B. SYLLABUS

Selecting the Dissertation Topic

It is usual to give you some discretion in the choice of topic for the dissertation and the approach to be adopted. You will need to ensure that your dissertation is related to your field of specialization.

Deciding this is often the most difficult part of the dissertation process, and perhaps, you have been thinking of a topic for some time.

It is important to distinguish here between 'dissertation topic' and 'dissertation title'. The topic is the specific area that you wish to investigate. The title may not be decided until the dissertation has been written so as to reflect its content properly.

Few restrictions are placed on the choice of the topic. Normally we would expect it to be:

- relevant to business, defined broadly;
- related to one or more of the subjects or areas of study within the core program and specialisation stream;
- clearly focused so as to facilitate an in-depth approach, subject to the availability of adequate sources of information and to your own knowledge;
- of value and interest to you and your personal and professional development.

Planning the Dissertation

This will entail following:

- Selecting a topic for investigation.
- Establishing the precise focus of your study by deciding on the aims and objectives of the dissertation, or formulating questions to be investigated. Consider very carefully what is worth investigating and its feasibility
- Drawing up initial dissertation outlines considering the aims and objectives of the dissertation. Workout various stages of dissertation
- Devising a timetable to ensure that all stages of dissertation are completed in time. The timetable should include writing of the dissertation and regular meetings with your dissertation guide.

The Dissertation plan or outline

It is recommended that you should have a dissertation plan to guide you right from the outset. Essentially, the dissertation plan is an outline of what you intend to do, chapter wise and therefore should reflect the aims and objectives of your dissertation.

There are several reasons for having a dissertation plan

- It provides a focus to your thoughts.
- It provides your faculty-guide with an opportunity, at an early stage of your work, to make constructive comments and help guide the direction of your research.
- The writing of a plan is the first formal stage of the writing process, and therefore helps build up your confidence.
- In many ways, the plan encourages you to come to terms with the reading, thinking and writing in a systematic and integrated way, with plenty of time left for changes.
- Finally, the dissertation plan generally provides a revision point in the development of your dissertation report in order to allow appropriate changes in the scope and even direction of your work as it progresses.

Keeping records

This includes the following:

- Making a note of everything you read; including those discarded.
- Ensuring that when recording sources, author's name and initials, date of publication, title, place of publication and publisher are included. (You may consider starting a card index or database from the outset). Making an accurate note of all quotations at the time you read them.
- Make clear what is a direct quotation and what is your paraphrase.

Dissertation format

All students must follow the following rules in submitting their dissertation

- Front page should provide title, author, Name of degree/diploma and the date of submission.
- Second page should be the table of contents giving page references for each chapter and section.
- The next page should be the table of appendices, graphs and tables giving titles and page references.
- Next to follow should be a synopsis or abstract of the dissertation (approximately 500 words) titled: **Executive Summary**
- Next is the 'acknowledgements'.
- Chapter I should be a general introduction, giving the background to the dissertation, the objectives of the dissertation, the rationale for the dissertation, the plan, methodological issues and problems. The limitations of the dissertation should also be hinted in this chapter.
- Other chapters will constitute the body of the dissertation. The number of chapters and their sequence will usually vary depending on, among others, on a critical review of the previous relevant work relating to your major findings, a discussion of their implications, and conclusions, possibly with a suggestion of the direction of future research on the area.
- After this concluding chapter, you should give a list of all the references you have used. These should be cross-references with your text. For articles from journals, the following details are required e.g.

Draper P and Pandyal K. 1991, The Investment Trust Discount Revisited, Journal of Business Finance and Accounting, Vol18, No6, Nov, pp 791-832

For books, the following details are required:

Levi, M. 1996, International Financial Management, Prentice Hall, New York, 3rd Ed, 1996

- Finally, you should give any appendices. These should only include relevant statistical data or material that cannot be fitted into the above categories.

The Layout Guidelines for the Dissertation

- A4 size Paper
- Font: Arial (10 points) or Times New Roman (12 points)
- Line spacing: 1.5
- Top and bottom margins: 1 inch/ 2.5 cm; left and right margins: 1.25 inches/ 3 cm

Guidelines for the Assessment of the Dissertation

While evaluating the dissertation, faculty guide will consider the following aspects:

1. Has the student made a clear statement of the objective or objective(s).
2. If there is more than one objective, do these constitute parts of a whole?
3. Has the student developed an appropriate analytical framework for addressing the problem at hand.
4. Is this based on up-to-date developments in the topic area?
5. Has the student collected information / data suitable to the frameworks?
6. Are the techniques employed by the student to analyse the data / information appropriate and relevant?
7. Has the student succeeded in drawing conclusion from the analysis?
8. Do the conclusions relate well to the objectives of the project?
9. Has the student been regular in his work?
10. Layout of the written report.

Examination Scheme:

Contents & Layout of the Report	30
Conceptual Framework	10
Objectives & Methodology	15
Implications & Conclusions	15
Viva/ Presentations	30

TOTAL **100**

AMERICAN SHORT FICTION

Course Code: BEG 105

Credit Units: 03

Course Objective:

This course aims to help students become better writers. In order to achieve this goal, students will be asked to write frequently, both in class and outside of it, and to read poets who model diverse strategies for crafting powerful fiction. In addition to honing their skills as writers, students will develop a critical vocabulary that will aid them in future literary studies as well as discussing the works produced by their peers.

Unit I

1. Introduction to American short fiction writing, trends, style, technique
1. 19th Century fiction
2. Edgar Allen Poe: 'The Tell-Tale Heart', The Spectacles
3. W.S. Porter: Schools and Schools, Gift of Magi
4. Nathaniel Hawthorne: The Birth Mark, David Swan

Unit II

1. 20th Century American fiction
2. Earnest Hemingway: Hills like White Elephants, The Snows of Kilimanjaro,
3. William Faulkner: 'A Rose for Emily', 'That Evening Sun'

Examination Scheme:

Components	MT	Presentation	Viva	Quiz	A	EE
Weightage (%)	15	15	10	10	5	50

(MT-Class Test; V-Viva Voce; A-attendance; EE-End term ex:

Text & References:

Recommended Readings:

- American Short Fiction: Amanda Elaine Anderson
- History of American Literature:
- O'Henry. The Four Million,
- Selected Stories of Nathaniel Hawthorne
- Earnest Hemmingway: Short Story Collection



AMITY UNIVERSITY

RAJASTHAN

AMITY SCHOOL OF LANGAUGES (Domain Elective) 3427

Course Name	Course Code	LTP	Credit	Semester
An Introduction to Folk Literature (DE)	BEG 106	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify texts, its socio-political background, authors and genres of different ages and the development of literary traditions
CLO 2	Interpret and discuss key ideas, themes, and aesthetic modalities of different ages.
CLO 3	Explain how the texts, ideas, themes, and modalities arose within a given cultural or historic context.
CLO 4	Relate your knowledge of Socio-historical background on the classical texts of those times
CLO 5	Design and create texts/ posters for a variety of purposes and audiences, evaluating and assessing the importance of classical texts and the writers.

B. SYLLABUS

Module I: - Folklore: Definition and Various Genres

- Oral literature, Material culture, Social Folk custom, Performing folk arts

Module II: - Folklore: Issues and Methods

- Folklore Studies: An Overview
- Folklore and Allied Disciplines
- Folklore as Discourse

Module III: -Culture Studies

- Meaning and Types of Culture
- Tribal Folk and Classical Cultures

Module IV: Introduction to Vocational Training (field Tour)

EXAMINATION SCHEME:

Components	CT/Mid-term	Presentation	Viva	Quiz	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

- Harry Blamires. 1984. A Short History of English Literature Second Edition. London. Rutledge
- David Daiches. 1979. History of English Literature, Vol. I, II, III. Allied Publishers.
- Jesse Matz. 2004. The Modern Novel: A Short Introduction. Wiley-Blackwell.
- Krishna, Arvind. An Illustrated History of Indian Literature In English. Orient Black Swan.
- Sanders, Andrew. Short Oxford History of English Literature. Oxford Univ. Press, London



AMITY UNIVERSITY

RAJASTHAN

AMITY SCHOOL OF LANGUAGES (ASL) 3428

Course Name	Course Code	LTP	Credit	Semester
NTCC Project on Theatre	BEG 150	0	5	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify the basic features of theatre performance.
CLO 2	Apply the knowledge of theatre performance.
CLO 3	Create a theatre performance from the original text and student participation.

B. SYLLABUS

NTCC is primarily a research work. It involves academic reading of several sources and writing on a particular topic relating to the core course or courses of the program. It is a scholarly inquiry into academic problems or issues. It should involve a systematic approach to gathering and analysis of information/ideas, leading to production of a structured report. The research topic should hold significant academic value commensurate with level of the Program.

Students will be expected to perform any **one** of the texts given below.

- Merchant of Venice
- As You Like It
- School for Scandals
- Way of the World

Evaluation Scheme:

Components	Plot development	Characterization/ Expression	Dramatic Execution (Memorization, Creativity)	Narration/ Voice Modulation
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Weightage (%)	25	25	25	25
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References:

<https://www.youtube.com/watch?v=wVaeXnk1tGE>

<https://www.youtube.com/watch?v=EmqWX0jPFo4>

<https://www.youtube.com/watch?v=Y1frdtY2OCs>



AMITY UNIVERSITY

— R A J A S T H A N —

AMITY SCHOOL OF LANGAUGES (Domain Elective)

Course Name	Course Code	LTP	Credit	Semester
Indian Short Fiction (DE)	BEG 205	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify texts, its socio-political background, authors and genres of different ages and the development of literary traditions
CLO 2	Interpret and discuss key ideas, themes, and aesthetic modalities of different ages.
CLO 3	Explain how the texts, ideas, themes, and modalities arose within a given cultural or historic context.
CLO 4	Relate your knowledge of Socio-historical background on the classical texts of those times
CLO 5	Design and create texts/ posters for a variety of purposes and audiences, evaluating and assessing the importance of classical texts and the writers.

B. SYLLABUS

Module I: - Rabindra Nath Tagore: 'The Home Coming', 'The Postmaster'
Setting, Background, theme,
Textual Analysis, Critical Study

Module II: - R.K. Narayan : Malgudi Days(the Astrologer's Day,
The Grandmother's Tale,
Under the Banyan Tree

Module III: -Khushwant Singh: 'The Mark of Vishnu'
Setting, Background, theme,
Textual Analysis, Critical Study

Module IV: Jhumpa Lahiri: Interpreter of maladies, Unaccustomed Earth
Setting, Background, theme,
Textual Analysis, Critical Study

EXAMINATION SCHEME:

Components	CT/Mid-term	Presentation	Viva	Quiz	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

- Tagore, Rabindranath; Alam, F. (editor); Chakravarty, R. (editor) (2011), The Essential Tagore, Harvard University Press
- Tagore, Rabindranath; Ray, M. K. (editor) (2007), The English Writings of Rabindranath Tagore, **1**, Atlantic Publishing
- The Mark of Vishnu and Other Stories, (Short Story) 1950
- Interpreter of Maladies (1999)



AMITY UNIVERSITY

RAJASTHAN

AMITY SCHOOL OF LANGAUGES (DE)

Course Name	Course Code	LTP	Credit	Semester
Tradition, Identity and Culture: Various Approaches (DE)	BEG 206	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Enables the learners to understand what tradition and relationship with Identity.
CLO 2	Discusses the genres of Oral Tradition in detail.
CLO 3	Helps to identify and classify aspects of performance in tradition i.e. music, dance, theatre and games; and classify knowledge-based tradition.
CLO 4	Enables the learners to identify the social and traditional context of folklore.
CLO5	Aims to Identify different types of folk genres and list out the functions of folklore.

B. SYLLABUS

Module 1:Folklore and Culture Studies in India: Approaches

- Sanskritization and ‘Palace Paradigm’
- Folk Forms as Protest

Module 2: Tradition and Identity

- Meaning and Significance
- Approaches to Tradition and Identity

Module 3:Introduction to Folk Tradition of India

- Jokes, Proverb, Riddles, Ballads, Myths, Oral Narratives, Tongue Twisters etc.
- Dance, Games, Ballad
- Folk Beliefs and Folk Medicines

EXAMINATION SCHEME:

Components	CT/Mid-term	Presentation	Viva	Quiz	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

- Barnard, Alan and Spencer Jonathan ed. Encyclopedia of Social and Cultural Anthropolgy. Routledge: London, 1996.
- Dorson, Richard M. 1950. 'Folklore and Fakelore', American Mercury. 70. 335-345
- Edward Shils. Tradition, University of Chicago Press, 2006.
- Eliot, T. S. (1919) 1953. 'Tradition and the Individual Talent'. Selected Essays. Harcourt: New York.



AMITY UNIVERSITY

RAJASTHAN

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AMITY SCHOOL OF LANGUAGES (ASL)
NTCC

Course Name	Course Code	LTP	Credit	Semester
NTCC Project on Script Writing	BEG 250	0	5	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify the basic features of script writing.
CLO 2	Apply the knowledge of script writing
CLO 3	Create a script from the original text to be used for dramatic performance

B. SYLLABUS

NTCC is primarily a research work. It involves academic reading of several sources and writing on a particular topic relating to the core course or courses of the program. It is a scholarly inquiry into academic problems or issues. It should involve a systematic approach to gathering and analysis of information/ideas, leading to production of a structured report. The research topic should hold significant academic value commensurate with level of the Program.

Students will be preparing a Script of any one of the following texts.

- Home Coming
- Interpreter of Maladies
- The Last Ride Together
- The Last Leaf

Evaluation Scheme:

Components	Plot development	Development of Character	Language Skills	Length
Weightage (%)	25	25	25	25

Text & References:

- History of Indian Literature. Adams ,V.1973.
- An Introduction to Modern English Word Formation. London: Longman
- Chomsky, N., and M.Halle.1968. The sound pattern of English. New York: Harper and Row.
- Lyons J, 1977. Semantics. 2 Vols. Cambridge: Cambridge University Press.
- Roe, Nichole: Romanticism. Oxford University Press. Brown,
- John R. Theatre Language: A Study of Arden, Osborne, Pinter and Wesker. London: Allen Lane, 1972.



AMITY UNIVERSITY

RAJASTHAN

AMITY SCHOOL OF LANGUAGES

NTCC

Course Name	Course Code	LTP	Credit	Semester
NTCC Project on Story Writing	BEG 350	0	5	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify the basic features of story writing
CLO 2	Apply the knowledge of story writing
CLO 3	Create a story from the original resource provided

B. SYLLABUS

NTCC is primarily a research work. It involves academic reading of several sources and writing on a particular topic relating to the core course or courses of the program. It is a scholarly inquiry into academic problems or issues. It should involve a systematic approach to gathering and analysis of information/ideas, leading to production of a structured report. The research topic should hold significant academic value commensurate with level of the Program.

Material will be given by the concerned teacher.

Evaluation Scheme:

Components	Plot structure	Characterization	Style, Vocabulary, Grammar	Theme/Story Impact
Weightage (%)	25	25	25	25

Recommended readings:

- Tennenhouse, Leonard. *The Importance of Feeling: American Literature and the British Diaspora, 1750- 1850*
- Bridge, Carl. *The British World: Diaspora, Culture and Identity*
- Anjan Das Gupta, *Poetics*. Pearson Education.
- John R. Willingham, *A Handbook of Critical Approaches to Literature*. Oxford University Press. John Richetti. *Cambridge Companion to the Eighteenth Century Novel*. Cambridge Univ. Press



AMITY UNIVERSITY

RAJASTHAN

AMITY SCHOOL OF LANGAUGES (DE)

Course Name	Course Code	LTP	Credit	Semester
Exploration of Folk Tradition and Conservation of Folklore (DE)	BEG 406	3:0:0	3	4

A. COURSE LEARNING OUTCOMES (CLOs)

After completion of the course, students will be able to

CLO 1	Enables the learner about Folk Theatre and various folk forms of Rajasthan.
CLO 2	Helps to introduce the cause of language death and decaying of folk culture methods of preservation of language and culture.
CLO 3	Aims to teach the various methods to conserve and preserve folklore.
CLO 4	Helps the learner to learn various ways of documentation.
CLO 5	Introduces the cause of language death and decaying of folk culture.

B. SYLLABUS

Module 1: Different Approaches to Folklore and Cultural Preservation

- Language Death
- Conservation and Preservation Methods
- Documentation and other methods

Module 2: Folk Theatre

- Appropriation of Folk in Indian Theatre: Jatra, Kathakali, Tamasha, Nautanki and Pala
- Folk, and Popular Films
- Habib Tanveer's *Charan Das Chor* (optional)

Module 3: Folklore of Rajasthan

- Songs, Ballads, Theatre, etc .

EXAMINATION SCHEME:

Components	CT/Mid-term	Presentation	Viva	Quiz	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

Text & References:

- Detha, Vijaydan. Puffin Classics: Timeless Tales from Marwar.
- Pagel, Mark. Contribution to the Conservation of Endangered Languages seminar; University of Bristol, 21 April 1995. Iatiku 1.6.
- Wurm, Stephen A. Language Death and Disappearance: Cause and Circumstances. In Robins and Uhlenbeck (eds.). 1-18. Methods of language maintenance and revival, with selected cases of language endangerment in the world. In Matsumura (ed.). 191-211. 1991.
- Rhydwen, Mari. Strategies for Doing the Impossible. In Ostler (ed.). 101-6. 1998.
- Crystal, David. 'Language Death' Cambridge University Press. 2000.
- <http://www.endangeredlanguagefund.org/request.html>
- Samar, Devlal. Folk Theatres of Rajasthan. Book Treasure. Jodhpur, 2018.
- Habib Tanveer's *Charan Das Chor* translated by Anjum Katyal, Seagull Books Pvt.Ltd , 2004.



AMITY UNIVERSITY

RAJASTHAN

AMITY SCHOOL OF LANGUAGES (ASL)

NTCC

Course Name	Course Code	LTP	Credit	Semester
NTCC Project Work on Digital Media Content	BEG 450	0	5	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify the basic features of digital media content
CLO 2	Apply the knowledge of digital media content
CLO 3	Create digital media content in the forms required

B. SYLLABUS

NTCC is primarily a research work. It involves academic reading of several sources and writing on a particular topic relating to the core course or courses of the program. It is a scholarly inquiry into academic problems or issues. It should involve a systematic approach to gathering and analysis of information/ideas, leading to production of a structured report. The research topic should hold significant academic value commensurate with level of the Program.

- Blog Writing
- Content Writing
- Video Making
- Film/ Book Review

Evaluation Scheme:

Components	Writing Skills: Accuracy, Brevity, Clarity	Innovation	Presentatio n for Video/ Expressions	File Work
Weightage (%)	25	25	25	25



AMITY SCHOOL OF LANGAUGES (DE)

Course Name	Course Code	LTP	Credit	Semester
Dimensions of Folklore Studies (DE)	BEG 506	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLOs)

After completion of the course, students will be able to

CLO 1	Helps the learners to establish relationship between gender and folklore in detail.
CLO 2	Creates awareness about dynamics of various media and folklore.
CLO 3	Provides a comprehensive knowledge on nature of folklore in arts, films etc.
CLO 4	Endeavors to equip the learners with basic knowledge of various functions that human language plays in the society via various cultural platforms.
CLO 5	Helps the learners to establish relationship between gender and folklore in detail.

B. SYLLABUS

Module 1: Gender and Folklore (India and abroad)

- Women in patriarchy
- Women’s tales
- Role reversals and other characterizations

Module 2:Folklore in arts/music/ paintings/films etc.

Module 3:Media & Folklore

- Folklore and Radio
- Folklore and television
- Folklore and Print media

EXAMINATION SCHEME:

Components	CT/Mid-term	Presentation	Viva	Quiz	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS

- Arya, S.P. A Sociological Study of Folklore, Calcutta: Indian Publications, 1975.
- Bausinger, Hermann. 1990. *Folk Culture in a World of Technology*. Bloomington: Indiana University Press.
- Barkataki, S.N. [ed.]. Tribal Folk-Tales of Assam, Gauhati: Publications Board Assam, 1970.
- Das, Yogesh. AssamerLoksamskriti. New Delhi: NBT India, 1983
- Dégh, Linda. 1994. *American Folklore and the Mass Media*. Bloomington: Indiana University Press.
- Handoo, J. 2000. *Theoretical Essays in Indian Folklore*. Mysore: Zooni Publications.
- Tarpan Movie by Ministry of Information Technology, Govt. of India.

B.A (Hons.) French
Syllabus – First Semester

Compétences Langagières à l'écrit - I – Written Communication – I

Course Code: BFR101

Credit Units: 04

Course Learning Objective (CLO)

CLO 1 Identify and express in French vocabulary and grammatical norms

CLO 2 Interpret different types of texts as well as French civilizational ideas and theme

CLO 3 Demonstrate comprehension of nuance between script and sound in French

CLO 4 Express clearly ideas, themes in simple standard French

On completion of the course students will be able:

- to present oneself and others, to ask and give personal information
- to give directions, to describe one's surrounding
- to talk about likes and dislikes, hobbies
- to tell time and date, to talk about daily routine to describe weather
- to talk about events in past, to talk about one's experiences

Course Content:

Unité 1 : Apprendre ensemble

Actes de Communication :

Saluer, se présenter, identifier une personne ou un objet, exprimer ses goûts, demander quelque chose, parler de ses activités de loisirs, raconter un emploi du temps passé

Unité 2 : Survivre en français

Actes de Communication :

Choisir, négocier une activité commune, situations pratiques relatives au voyage, à l'hôtel et au restaurant, demander des nouvelles de quelqu'un, choisir, acheter, payer un objet, raconter sa journée, décrire un repas ou une fête, décrire d'un cadre de vie, décrire son logement, demander de l'aide

Unité 3 : Etablir des contacts

Actes de Communication :

Présenter sa famille, faire brièvement la biographie d'une personne, interroger quelqu'un sur ses projets, exprimer une opinion sur la vérité d'un fait, parler de ses activités de loisirs, téléphoner, prendre rendez-vous, exposer un problème

Grammaire :

1. Le genre des noms
2. Les articles indéfinis, définis, partitifs
3. Les verbes – être, avoir, aller, faire, vivre, sortir, prendre, en –er au présent, les verbes pronominaux
4. Les adjectifs possessifs, qualificatifs, interrogatifs, démonstratifs
5. L'interrogation, Les quantificatifs
6. Les prépositions et adverbes de lieu, La négation
7. Les adjectifs de nationalité et de couleur – le nombre et le genre
8. Les pronoms COD
9. Le futur proche : aller + infinitif
10. Le passé composé et les marqueurs temporels du passé

11.L'imparfait

12.L'impératif

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Le livre à suivre:

J.Pecheur, J. Girardet, *Echo* (A1) Livre de l'élève. Paris, Cle International, 2009.

J. Pecheur, J. Girardet, *Echo* (A1) Cahier d'exercices. Paris, Cle International, 2009.

Références :

Girardeau, Bruno et Nelly Mous. Réussir le DELF A1. Paris: Didier, 2010

Compétences Langagières à l'Oral I - Oral Communication -I

Course Code: BFR102

Credit Units: 04

Course Learning Outcome (CLO)

CLO 1 Express in standard French

CLO 2 Describe persons, things, and places

CLO 3 Ask questions about things, persons, and places

CLO 4 Compare things, persons, and places

On completion of the course students will be able:

- to understand the French phonetic system
- to develop strategies of listening comprehension
- to pass from written to oral, from oral to written easily
- to be sensitized to nuances of speech, dialectical variations, and “registre de langage”
- to overcome the fear of speaking a foreign language and take position as a foreigner speaking French

Course Content:

Listening exercises and speaking tasks (imagining dialogues, role plays, telephone conversations) of:

J. Pecheur, J.Girardet , *Echo* (A1) Livre de l'élève. Paris, Cle International, 2009.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

J. Pecheur, J.Girardot , *Echo* (A1) Livre de l'élève. Paris, Cle International, 2009

Français sur Objectif Spécifique: Le Français de l'Hôtellerie et la Restauration - French for Hotel and Restaurant Industry

Course Code: BFR103

Credit Units: 04

Course Objective:

To familiarize the students with the essentials of French for hotel and catering sector

To enable the students to understand how they communicate in French in simple, common professional situations of the hotel and catering sector

To initiate the students in the techniques of reception and services like reservation, house-keeping, catering, handling claims, preparing for departure

Course Contents: Unités 1--6

Module 1

Bienvenue à l'hôtel de la paix : Le personnel-l'établissement

Module 2

Réservation: réserver une chambre par téléphone, remplir une fiche de réservation, réserver une table a restaurant, réserver par Internet, confirmer une réservation, refuser une réservation, modifier ou annuler une réservation.

Module 3

Accueil: accueillir un client et un groupe (prendre contact, prendre en charge le client, prendre congé, prendre contact avec le responsable du groupe), installer un client dans sa chambre, comprendre et écrire des messages d'accueil, accueillir au restaurant, accueillir au téléphone.

Module 4

Services: informer les clients sur les différents services et équipements de l'hôtel, prendre note d'une commande par téléphone, caractériser les tâches professionnelles du métier de concierge, assurer les services a l'étage, décrire un plat, prendre une commande au restaurant.

Module 5

Réclamations:comprendre les requêtes des clients, savoir dresser une table, comprendre les messagesélectroniques de réclamations des clients, s’excuser et envisager une réparation, faire face à des dysfonctionnements, s’excuser et proposer une réparation, comprendre le travail du personnel d’étage, rédiger une lettre d’excuse.

Module 6

Départ:préparer le départ du client, présenter la note au client et répondre à ses demandes de précisions,évaluer des prestations, toujours en contact !

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text&References:

Le livre à suivre:Corbeau, Sophie., et al .*Hôtellerie-restauration.com*.Paris: CLE International, 2006.

Print.

Référence : Chanderasekar, Rajeswari et al.*A votre service*. Paris :Hachette, 2011. Print

Project Work

Course Code : BFR150

Credit Units: 07

Course Learning Objective (CLO)

CLO 1 Encourage independent work and research

CLO 2 Acquire knowledge about French culture and civilization

CLO 3 Groom oral skill and presentation

CLO 4 Self learning of areas not treated in the course

Students are to make projects on the topics pertaining to the topics covered in BFR 101, BFR102,BFR 103 such as given below:

- France in the World Map
- France and the Francophone World
- Family System in France
- Hotel and Restaurant Industry in India and in France
- A French Menu
- Oral presentation

Texts&References:

Le livre à suivre:

1. J.Pecheur, J. Girardet, *Echo (A1)* Livre de l'élève. Paris, Cle International, 2009.Print.
2. Corbeau, Sophie., et al .*Hôtellerie-restauration.com*.Paris: CLE International, 2006.Print.
3. Chandrasekar, Rajeswari et al.*A votre service*. Paris :Hachette, 2011. Print
4. Internet Resources.

Evaluation Scheme:

Components	Presentation Content	Oral Skills	Presentation	Viva	File Work
Weightage (%)	25	25		25	25

Syllabus-Second Semester

Compétences Langagières à l'écrit - II – Written Communication - II

Course Code: BFR 201

Credit Units: 04

Course Learning Objective (CLO)

CLO 1 Identify and express in French vocabulary and grammatical norms

CLO 2 Interpret different types of texts as well as French civilizational ideas and theme

CLO 3 Demonstrate comprehension of nuance between script and sound in French

CLO 4 Express clearly ideas, themes in simple standard French

On completion of the course students will be able :

- to express one's point of view, difficulties, emotions, motivation, preferences etc.
- to describe lodgings, objects
- to talk about or narrate events in past and future, to talk about health, express pain and symptoms to ask and to give advices, to give instructions
- to compare objects and people, to describe daily activities

Course Content

Unité 1 : S'adapter à de nouvelles réalités

Actes de Communication :

Faire des projets, exprimer l'inquiétude, faire une proposition, choix et achat d'un vêtement, faire des suppositions, exprimer des préférences, accuser/défendre quelqu'un proposer de faire quelque chose, donner des instructions, accueillir quelqu'un raconter une histoire, choisir un programme

Unité 2 : Entretenir des relations

Actes de Communication :

Demander et donner des nouvelles de quelqu'un, choisir une activité de loisir, retrouver quelqu'un, aborder quelqu'un, réagir à une proposition, exprimer l'incompréhension, exprimer l'accord, désaccord, se dire au revoir

Unité 3 : Se débrouiller au quotidien

Actes de Communication :

Donner des directives, prendre contact avec quelqu'un, avoir un entretien d'embauche, exprimer la confiance ou la méfiance, exprimer une opinion sur une personne, se débrouiller dans une banque, défendre quelqu'un, réagir en cas d'accident

Grammaire :

1. les adverbes

2. les prépositions de lieu

3. Les pronoms COD, COI, y, en, relatifs (**qui, que, ou**), le pronom **personnel on**, les pronoms démonstratifs

4. La comparaison de l'adjectif et de l'adverbe (plus, moins, aussi, autant que...)

5. L'impératif, la forme et la place des pronoms réfléchis à l'impératif

6. Le futur proche et les marqueurs temporels du futur

7. Les adjectifs et les pronoms indéfinis

8. Les adjectifs qualificatifs et leur place

9. La subordonnée temporelle avec **quand**

10. Devoir (au conditionnel), Etre en train de + infinitif

11. le subjonctif

12. le discours rapporté

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

Text:

Le livre à suivre:

J. Pecheur, J.Girardet , *Echo* (A2) Livre de l'élève. Paris, Cle International, 2009

J. Pecheur, J.Girardet , *Echo* (A2) Cahier d'exercices. Paris, Cle International, 2009.

Références :

· Girardeau, Bruno et Nelly Mous. Réussir le DELF A2. Paris: Didier, 2010.

Compétences Langagières à l'Oral II - Oral Communication -II

Course Code: BFR202

Credit Units: 04

Course Learning Outcome (CLO)

CLO 1 Express in standard French

CLO 2 Describe persons, things, and places

CLO 3 Ask questions about things, persons, and places

CLO 4 Compare things, persons, and places

On completion of the course students will be able:

-to provide the students with the know-how

- to understand the French phonetic system
- to develop strategies of listening comprehension
- to pass from written to oral, from oral to written easily
- to be sensitized to nuances of speech, dialectical variations, and “registre de langage”
- to overcome the fear of speaking a foreign language and take position as a foreigner speaking French

Course Content:

Listening exercises and speaking tasks (imagining dialogues, role plays, telephone conversations) of:

J. Pecheur, J.Girardet , *Echo* (A2) Livre de l'élève. Paris, Cle International, 2009.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

J. Pecheur, J.Girardet , *Echo* (A1) Livre de l'élève. Paris, Cle International, 2009.

Français sur Objectif Spécifique : Le Français du Tourisme - French for Tourism Industry

Course Code: BFR203

Credit Units: 04

Course Learning Outcome (CLO)

CLO1. To familiarize the students with the basic essentials of French for tourism industry

CLO2. To enable the students to understand how they communicate in French in simple, common professional situations of the tourism industry

CLO3. To familiarize them with services like organizing event in a tourist site, promoting a destination, conceiving the design and sale of a product, accompanying and providing support.

Course Contents

Unité 1 : Premiers contacts

Actes de Communication : se présenter et parler de son métier, présenter une entreprise touristique, savoir répondre au téléphone et prendre un message, comprendre et rédiger un CV, le qui fait quoi dans le tourisme en France

Unité 2 : Accueil

Actes de Communication : lire un plan, indiquer la direction, accueillir et servir les passagers à bord

d'un avion, lire un indicateur horaire et informer sur les horaires, expliquer un billet de train, prendre une réservation, un bon comportement pour un bon accueil

Unité 3 : Animation

Actes de Communication : concevoir, rédiger et présenter un programme, concevoir et proposer des animations, connaître le calendrier des jours fériés, renseigner sur le programme des manifestations, évaluer une prestation touristique, les différentes formes de tourisme

Unité 4 : Promotion d'une destination

Actes de Communication : renseigner sur les activités proposées par une ville, rédiger une lettre

commerciale : mise en forme et formules, rédiger une lettre publipostage, comprendre la demande d'un visiteur et proposer une documentation adéquate, l'organisation de la promotion touristique en France

Unité 5 : Vente d'un produit touristique

Actes de Communication : connaître les caractéristiques techniques des produits touristiques, se familiariser avec la mise en forme, le style des brochures de voyagistes, connaître les différentes étapes d'un entretien de vente, annuler une réservation et proposer des solutions de remplacement, les produits touristiques de demain

Unité 6 : Guide

Actes de Communication : utiliser des outils documentaires : guides et cartographie, préparer une visite

guidée, décrire un monument : son histoire, son architecture et les anecdotes qui lui sont liées, adapter commentaires et attitudes au groupe, les guides touristiques en ligne

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text&References:

Le livre à suivre:Corbeau, Sophie., et al.tourisme.com. Paris: CLE International, 2004. Print.

References:Marion, Juliette, Baptiste Chauveau et Léo Bézies-Gros. Carnet de Voyage. Delhi : GoyalPublishers and Distributors, 2013. Print.

Project Work

Course Code : BFR150

Credit Units: 07

Course Learning Objective (CLO)

CLO 1 Encourage independent work and research

CLO 2 Acquire knowledge about French culture and civilization

CLO 3 Groom oral skill and presentation

CLO 4 Self learning of areas not treated in the course

Students are to make projects on the topics pertaining to the topics covered in BFR 101, BFR102,BFR 103 such as given below:

- France in the World Map
- France and the Francophone World
- Family System in France
- Hotel and Restaurant Industry in India and in France
- A French Menu
- Oral presentation

Texts&References:

Le livre à suivre:

1. J.Pecheur, J. Girardet, *Echo (A1)* Livre de l'élève. Paris, Cle International, 2009.Print.
2. Corbeau, Sophie., et al .*Hôtellerie-restauration.com*.Paris: CLE International, 2006.Print.
3. Chandrasekar, Rajeswari et al.*A votre service*. Paris :Hachette, 2011. Print
4. Internet Resources.

Evaluation Scheme:

Components	Presentation Content	Oral Skills	Presentation	Viva	File Work
Weightage (%)	25	25		25	25

Syllabus-ThirdSemester

Compétences Langagières à l'écrit - III – Written Communication - III

Course Code: BFR 301

Credit Units: 04

Course Learning Objective (CLO)

CLO 1 Identify and express in French vocabulary and grammatical norms

CLO 2 Interpret different types of texts as well as French civilizational ideas and theme

CLO 3 Demonstrate comprehension of nuance between script and sound in French

CLO 4 Express clearly ideas, themes in simple standard French

Course Content:

ECHO B1 (Vol. 1)

Unité 1 : S'informer

Actes de Communication :

Demander des informations sur les circonstances d'un événement (lieu, moment, etc..), exprimer l'intérêt ou l'indifférence, faire des hypothèses, des promesses, donner des assurances, exprimer la surprise, rapporter les paroles de quelqu'un, demander et donner des explications à propos du comportement de quelqu'un, exprimer un espoir ou une déception

Unité 2 : S'intégrer dans la société

Actes de Communication :

Présenter quelqu'un, prendre congé de quelqu'un, demander quelque chose, refuser, convaincre quelqu'un de faire quelque chose, menacer, interdire, demander une autorisation, donner des instructions, accuser, se défendre, commencer une réunion, présenter les participants, enchaîner des idées

Unité 3 : S'affirmer au quotidien

Actes de Communication :

Raconter son adaptation à une nouvelle situation ; parler des relations qu'on a avec les autres, réagir dans des situations embarrassantes, raconter une rencontre, présenter une personne, raconter un rêve, exprimer une opinion, lancer un débat, poser un problème, se débrouiller en cas de problème de santé.

Grammaire :

1. Le plusque parfait, le récit au passé simple, le conditionnel passé, le subjonctif passé
2. La forme passive
3. L'expression de la certitude, de la possibilité, de l'impossibilité
4. Le futurantérieur

5. Les pronoms relatifs simples et composés
6. Les expressions de la cause et de la conséquence et du but
7. Le subjonctif dans l'expression de l'opinion

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

Text:

Le livre à suivre:

J. Pecheur, J.Girardet , *Echo* (B1.1) Livre de l'élève. Paris, Cle International, 2010.

J. Pecheur, J.Girardet , *Echo* (B1.1) Cahier d'exercices. Paris, Cle International, 2010.

Références :

Girardeau, Bruno et Nelly Mous. Réussir le DELF A2. Paris: Didier, 2010.

Girardeau, Bruno et Nelly Mous. Réussir le DELF B1. Paris: Didier, 20

Compétences Langagières à l'Oral III - Oral Communication –III

Course Code: BFR302

Credit Units: 04

Course Learning Outcome (CLO)

CLO 1. Express in more complex sentences in standard French

CLO 2. Describe in detail persons, things, and places

CLO 3. Ask questions about things, persons, and places

CLO 4. Compare things, persons, and places

On completion of the course students will be able :

- to understand the French phonetic system
- to develop strategies of listening comprehension
- to pass from written to oral, from oral to written easily
- to be sensitized to nuances of speech, dialectical variations, and “registre de langage”
- to master the current social communication skills in oral
- to enrich the formulations, the linguistic tools and vary the sentence structure

Course Content:

Listening exercises and speaking tasks (imagining dialogues, role plays, telephone conversations, participating in debates, and discussions) of:

J. Pecheur, J.Girardet , *Echo* (B2.1) Livre de l'élève. Paris, Cle International, 2010.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)	End Sem Evaluation (Total 50 Marks)
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Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

J. Pecheur, J.Girardet , *Echo* (B1.1) Livre de l'élève. Paris, Cle International, 2009.

Introduction à la civilisation et à la culture française et francophone-Overview of French and Francophone Culture and Civilisation - I

Course Code: BFR303

Credit Units: 04

3502

Course Learning Objective (CLO):

CLO1.The course is designed to give a broad geographical, historical, cultural and social background of France.

CLO2.It will give the students an insight into the major events- historical, political and cultural- of French society extending from French Revolution till today.

CLO3.This course explores how today's France came into existence and what role it plays in the world, especially in Europe.

CLO4.The course will highlight the various other cultural aspects like French festivals, cuisine, cinema, music and theatre.

Course Content

Module I

Repère géographique : carte de France relief (frontières, montagnes, rivières, grandes villes), régions de France, Départements d'Outre-Mer, pays francophones.

Module II

Repère historique : la monarchie et la Révolution Française, la Révolution Française et ses suites ; les Républiques

Module III

Repère politique : la République des Présidents, le choix de l'Europe, vers la France d'aujourd'hui

Module IV

Repère société : la citoyenneté, la place des femmes, les religions, l'individualisme

Module V

Repère culturel : les pratiques culturelles (les fêtes, la gastronomie, le cinéma, la peinture, la musique et la danse)

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

Mauchamp, Nelly. La France de Toujours : Civilisation. Paris : CLE Internationale, 2005. Print.

Bourel, Guillaume et Marielle Chevallier, Histoire. Paris :Hatier, 2002. Print.

Pecheur, Jacques. Civilisation Progressive du Français. Paris :CLE Internationale, 2010. Print

Project Work

Course Code :BFR 350

Credit Units: 07

3504

Course Learning Objective (CLO)

CLO 1 Encourage independent work and research

CLO 2 Acquire knowledge about French culture and civilization

CLO 3 Groom oral skill and presentation

CLO 4 Self learning of areas not treated in the course

Students are to make projects on the topics pertaining to the topics covered in BFR 301, BFR302, BFR 303 such as given below:

- French Political System
- Technological Development in France
- Geographical Division in France
- French Society
- French novelists
- Oral Presentation

Texts&References:

Le livre à suivre:

1. Mauchamp, Nelly. *La France de Toujours : Civilisation*. Paris : CLE Internationale, 2005. Print.
2. Pecheur, Jacques. *Civilisation Progressive du Français*. Paris :CLE Internationale, 2010. Print
3. J.Pecheur, J. Girardet, *Echo* (B1.1) Livre de l'élève. Paris, Cle International, 2009.Print.
4. *Itinéraire littéraire*, Hatier.

5. Internet Resources.

Evaluation Scheme:

Components	Presentation Content	Oral Skills	Presentation	Viva	File Work
Weightage (%)	25	25		25	25

Syllabus-FourthSemester

Compétences Langagières à l'écrit - IV – Written Communication - IV

Course Code: BFR401

Credit Units: 04

3508

Course Learning Objective (CLO)

CLO 1 Identify and express in French vocabulary and grammatical norms

CLO 2 Interpret different types of texts as well as French civilizational ideas and theme

CLO 3 Demonstrate comprehension of nuance between script and sound in French

CLO 4 Express clearly ideas, themes in simple standard French

On completion of the course students will be able:

-to express sentiments, obligation, possibility -to present a person, to narrate a story

-to give or to justify one's opinion,

-to describe a festival, a folkloric activity

- to participate in a job interview, to present a professional experience, to give opinion on a literary work or film, to present a hobby

Course Content

Unité 1 : Découvrir un environnement

Actes de Communication :

Décrire des impressions, des sensations, Décrire une fête ou une activité folklorique, raconter une légende, demander et donner la définition d'une notion, exprimer l'obligation, et l'interdiction, commenter un sondage sur la sécurité routières débrouiller en cas de problèmes lors d'un voyage

Unité 2 : S'intégrer dans un milieu professionnel

Actes de Communication :

Raconter un parcours professionnel, participer à un entretien d'embauche, présenter un objet, décrire son aspect physique et son fonctionnement, présenter un projet à caractère économique ou commercial, présenter une entreprise, participer à une réunion.

Unité 3 : Se distraire et se cultiver

Actes de Communication :

Raconter une affaire judiciaire, raconter un épisode de l'histoire, présenter la règle d'un jeu, s'exprimer en jouant, jouer avec les mots, raconter l'intrigue d'une œuvre de fiction, donner son opinion sur une œuvre littéraire, sur une pièce de théâtre, présenter une activité de loisir, discuter ses avantages et ses inconvénients

Grammaire :

1. Constructions et mode des verbes de sentiments, des verbes impersonnels
2. Le futur, le futur antérieur, le passé simple, le passé antérieur
3. Les pronoms COD, COI, la double pronominalisation
4. Le pronom relatif- ce que, ce qui, ce dont
5. Les prépositions et les adverbes de localisation
6. Le discours rapporté, la concordance des temps dans le discours rapporte au passe
7. Expression de la condition et de la dépendance, de la concession, de la restriction
8. La comparaison

9. Les registres de langues, les figures de style
10. La forme passive
11. Constructions négatives.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text&References:

Text:

Le livre à suivre:

J. Pecheur, J.Girardot , *Echo* (B1.2) Livre de l'élève. Paris, Cle International, 2009.

J. Pecheur, J.Girardot , *Echo* (B1.2) Cahier d'exercices. Paris, Cle International, 2009.

Références :

· Girardeau, Bruno et Nelly Mous. Réussir le DELF B1. Paris: Didier, 2010

Compétences Langagières à l'Oral IV – Oral Communication IV

Course Code: BFR402

Credit Units: 04

Course Learning Outcome (CLO)

CLO 1. Express in more complex sentences in standard French

CLO 2. Describe in detail persons, things, and places

CLO 3. Ask questions about things, persons, and places

CLO 4. Compare things, persons, and places

On completion of the course students will be able:

- to understand the French phonetic system
- to develop strategies of listening comprehension
- to pass from written to oral, from oral to written easily
- to be sensitized to nuances of speech, dialectical variations, and “registre de langage”
- to master the current social communication skills in oral
- to enrich the formulations, the linguistic tools and vary the sentence structure

Course Content:

Listening exercises and speaking tasks (imagining dialogues, role plays, telephone conversations, participating in debates, and discussions) of:

J. Pecheur, J. Girardet ,*Echo* (B1.2) Livre de l'élève. Paris, Cle International, 2009.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam

10	15	10	10	5	50
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Text & References:

J. Pecheur, J. Girardet ,*Echo* (B1.2) Livre de l'élève. Paris, Cle International, 2009.

References

Girardeau, Bruno et Nelly Mous. Réussir le DELF B1. Paris: Didier, 2010.

Français à travers des textes littéraires - French through literary texts

Course Code: BFR403

Credit Units: 04

Course Learning Objective (CLO)

CLO1. Identify different genres of French literature

CLO2. Interpret different types of texts, cultural ideas and themes.

CLO3. Demonstrate comprehension of messages of literary texts

CLO4. Express clearly ideas, themes in simple standard French

On completion of the course the students will be able:

- To introduce students to French literature through a study of extracts of select literary works
- To enable them to read and understand literary texts and find new meanings through analysis, evaluation, synthesis
- To understand the nuances of the language, figures of speech, stylistics
- To empower them to develop critical/ creative thinking

Course Content

Module I: Le français à travers des poèmes

Victor Hugo : Demain dès l'aube

Jacques Prévert : Déjeuner du matin

Alphonse de Lamartine : Le Lac

Alfred de Vigny : L'Age d'or de l'avenir

Module 2: Le français à travers des romans / nouvelles / récits

Extraits des œuvres de:

Guy de Maupassant : La Parure
Albert Camus : L'Étranger

Module 3: Le français à travers des écrits philosophiques

Extraits des œuvres de:

Voltaire : Candide

Rousseau : Discours sur les Sciences et les Arts

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text&References:

Castex, P.G., P. Surer et G. Becker. Histoire de la Littérature Française. Paris : Hachette, 1974.Print.

Itinéraires Littéraires. (Moyen Age XVIe, XVIIe, XVIIIe) Paris: Collection Hatier. Print.

Dix Siècles de Littérature Française. Paris :Collection Bordas, 1991. Print.

Français de la technologie-French for Technology(Domain Elective)

Course Code: BFR 404

Credit Units: 03

3511

Course Learning Objective(CLO)

CLO 1. Develop the linguistic and professional competence to communicate in writing as well as verbal in technical field

CLO 2. Demonstrate and Display the linguistic and professional skills pertaining to various jobs in Engineering domain.

CLO 3. Communicate in common situation in the profession of technical industry regarding services and facilities amenities

CLO 4 Apply the knowledge management and communication skills in the real situation

On completion of the course students will be able :

- to understand the sorting and recycling system in France
- to use the compliment of the direct object
- to understand the recycling process in French
- to grasp exams preparation in France as a topic

Course Content: Tech French Chapters 19-24, Pages: 122-159

Lesson 19: le tri, mais pour quoi faire?

Exprimer l'obligation, suggérer et donner des conseils, parler du recyclage

Lesson 20 : Des ondes dans le cerveau

Comprendre une interview et un projet de recherche, faire un sondage

Lesson 21 : La préparation des examens

Préparer l'oral, faire des fiches, comprendre et donner des conseils

Lesson 22 : Le jour des examens

Ecrire et comprendre un sms, comprendre une interdiction, donnez des consignes, comprendre et parler d'actions passées

Lesson 23 : La recherche de stage

Comprendre une offre de stage, comprendre et réaliser un CV, comprendre une lettre de motivation

Lesson 24 : Le rapport de stage et le domaine des carburants

Comprendre la structure d'un rapport de stage, trouver ses mots clés, comprendre un texte technique, relever des arguments dans un texte

Grammar :

- Object of direct compliment
- Must verb
- Imperatives

- « y » pronoun
- Object of indirect compliment
- Past tense

Text & References:

Le Gargasson, I., Naik, S., Chaize, C. (2011) Tech French .Delhi Goyal Publisher's & Distributors Pvt. Ltd.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Le Français Professionnel et des Affaires – Professional and Business French (Domain Elective)

Course Code: BFR405

Credit Units: 03

Course Learning Objective (CLO)

CLO1.To familiarize the students with the essentials of professional French

CLO2.To enable the students to communicate in French on business topic

CLO3. To understand common situations related to the business and corporate world

CLO4. To prepare CVs and face interviews

Course Contents:français.com- intermédiaire Unités 6--9

Unité 6 : Entreprises

Actes de Communication : identifier une entreprise, lire /expliquer/ dessiner un graphique,analyser/ comparer des résultats et des tendances, analyser des techniques de vente, lancer un produit, analyser un secteur économique

Unité 7: Travail

Actes de Communication : identifier les différents services de l'entreprise, les tâches dusecrétariat, examiner différentes façons d'aménager un lieu de travail, rédiger un rapport, analyser les relations du travail, comparer les conditions de travail d'un pays à l'autre, rédiger un e-mai

Unité 8: Recherche d'emploi

Actes de Communication : consulter/ analyser/ expliquer une petite annonce/ ses motivationsrédiger une petite annonce/ une lettre de motivation/ un curriculum vitae Passer un entretien d'embauche

Unité 9:Prise de parole

Actes de Communication:pratiquer l'écoute active : analyser/ comparer des types de conversations, reformuler, questionner, interrompre, répliquer avec tact, présenter des objections, faire une présentation – établir une grille d'évaluation, faire/ évaluer un exposé, prendre de notes, maîtriser les techniques d'interview, poser les bonnes questions et collecter des informations

Text&References:

Le livre à suivre:Penfornis, Jean-Luc. français.com- intermédiaire .Paris: CLE International,2002.Print.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Contemporary French and Francophone Literature- I

Course Code: BFR406

Course Credit:03

Course Learning Objective(CLO):

CLO1. To enable students to do a thorough study of 2 literary works with main excerpts

CLO2. To enable students to understand it with respect to the author and with respect to his other works

CLO3. To provide a broad perspective of the thoughts and philosophy of the period and contemporary works thereby

CLO4. To develop a critical approach in that area

Course Content:

Module 1

Samuel Bckett : En attendant Godot (extracts)

Module 2

Ahmadou Kourouma: Les Soleils des indépendances (extracts)

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text&References:

- Beckett, S. *En attendant Godot*. Paris: Les Editions de Minuit, 1952
- Kourouma, A. *Les Soleils des indépendances*. Presses de l'Université de Montréal, 1968

Project Work

Course Code :BFR 350

Credit Units: 07

3504

Course Learning Objective (CLO)

CLO 1 Encourage independent work and research

CLO 2 Acquire knowledge about French culture and civilization

CLO 3 Groom oral skill and presentation

CLO 4 Self learning of areas not treated in the course

Students are to make projects on the topics pertaining to the topics covered in BFR 301, BFR302, BFR 303 such as given below:

- French Political System
- Technological Development in France
- Geographical Division in France
- French Society
- French novelists
- Oral Presentation

Texts&References:

Le livre à suivre:

1. Mauchamp, Nelly. *La France de Toujours : Civilisation*. Paris : CLE Internationale, 2005. Print.
2. Pecheur, Jacques. *Civilisation Progressive du Français*. Paris :CLE Internationale, 2010. Print
3. J.Pecheur, J. Girardet, *Echo* (B1.1) Livre de l'élève. Paris, Cle International, 2009.Print.
4. *Itinéraire littéraire*, Hatier.

5. Internet Resources.

Evaluation Scheme:

Components	Presentation Content	Oral Skills	Presentation	Viva	File Work
Weightage (%)	25	25		25	25

Compétences Langagières à l'écrit - V – Written Communication – V

Course Code: BFR501

Credit Units: 04

Course Learning Objective (CLO)

CLO 1 Identify and express in French vocabulary and grammatical norms

CLO 2 Interpret different types of texts as well as French civilizational ideas and theme

CLO 3 Demonstrate comprehension of nuance between script and sound in French

CLO 4 Express clearly ideas, themes in simple standard French

On completion of the course students will be able:

- To report speech, to express one's point of view
- To analyze an editorial, to compare information given in different texts
- To express an opposition, a hypothesis, a goal, probabilities
- To present an experience or an educational project
- To present a political or social project, to talk about a technological innovation
- To debate on an issue
- To talk about one's hobby/passion, a restaurant, a dish
- To comment on/discuss a literary work

Course Content:

Unité 1 : Se former

Actes de Communication :

Présenter une expérience ou un projet éducatif, présenter ses compétences, exprimer son opinion sur la fiabilité des moyens d'information, faire un exposé sur un point d'histoire, donner son avis sur des méthodes d'apprentissage, réagir à une information de presse

Unité 2 : Comprendre et expliquer le monde

Actes de Communication :

Explication de différences culturelles, rapporter le contenu d'un texte d'informations, présenter un projet de défense du patrimoine, décrire une innovation technologique, participer à un débat, présenter un projet politique ou social

Unité 3 : Vivre ses loisirs

Actes de Communication :

Parler d'une passion, d'un jardin secret, réagir à un événement agréable ou désagréable, raconter et commenter une œuvre de fiction, opinions à propos des médias, parler d'un plat, d'un restaurant

Unité 4 :Participer à la vie citoyenne

Actes de Communication :

Commenter un article sur la politique de l'immigration, présenter un projet de charte pour le multiculturalisme, débattre d'une politique de coopération, défendre , présenter, critiquer un projet à caractère politique

Grammaire :

1. Les phrases nominales
2. La synthèse d'informations, présentation d'idées et leurs progrès prépositions de lieu
3. Le discoursrapporté
4. L'hypothèse (les phrases avec si), l'opposition, le raisonnement
5. Les formes du compte rendu

ExaminationScheme:

Continuous Evaluation (Total 50 Marks)	End Sem Evaluation (Total 50 Marks)
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Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

Text:

Le livre à suivre:

J Pecheur, J. Girardot, Echo (B2), livre de l'élève, CLE International, Paris, 2009

J Pecheur, J. Girardot, Echo (B2), cahier d'exercices, CLE International, Paris, 2009

Références :

· Girardeau, Bruno et Nelly Mous. Réussir le DELF B2. Paris: Didier, 2010.

Compétences Langagières à l'écrit - V – Written Communication – V

Course Code: BFR501

Credit Units: 04

Course Learning Objective (CLO)

CLO 1 Identify and express in French vocabulary and grammatical norms

CLO 2 Interpret different types of texts as well as French civilizational ideas and theme

CLO 3 Demonstrate comprehension of nuance between script and sound in French

CLO 4 Express clearly ideas, themes in simple standard French

On completion of the course students will be able:

- To report speech, to express one's point of view
- To analyze an editorial, to compare information given in different texts
- To express an opposition, a hypothesis, a goal, probabilities
- To present an experience or an educational project
- To present a political or social project, to talk about a technological innovation
- To debate on an issue
- To talk about one's hobby/passion, a restaurant, a dish
- To comment on/discuss a literary work

Course Content:

Unité 1 : Se former

Actes de Communication :

Présenter une expérience ou un projet éducatif, présenter ses compétences, exprimer son opinion sur la fiabilité des moyens d'information, faire un exposé sur un point d'histoire, donner son avis sur des méthodes d'apprentissage, réagir à une information de presse

Unité 2 : Comprendre et expliquer le monde

Actes de Communication :

Explication de différences culturelles, rapporter le contenu d'un texte d'informations, présenter un projet de défense du patrimoine, décrire une innovation technologique, participer à un débat, présenter un projet politique ou social

Unité 3 : Vivre ses loisirs

Actes de Communication :

Parler d'une passion, d'un jardin secret, réagir à un événement agréable ou désagréable, raconter et commenter une œuvre de fiction, opinions à propos des médias, parler d'un plat, d'un restaurant

Unité 4 :Participer à la vie citoyenne

Actes de Communication :

Commenter un article sur la politique de l'immigration, présenter un projet de charte pour le multiculturalisme, débattre d'une politique de coopération, défendre , présenter, critiquer un projet à caractère politique

Grammaire :

1. Les phrases nominales
2. La synthèse d'informations, présentation d'idées et leurs progrès prépositions de lieu
3. Le discoursrapporté
4. L'hypothèse (les phrases avec si), l'opposition, le raisonnement
5. Les formes du compte rendu

ExaminationScheme:

Continuous Evaluation (Total 50 Marks)	End Sem Evaluation (Total 50 Marks)
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Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

Text:

Le livre à suivre:

J Pecheur, J. Girardot, Echo (B2), livre de l'élève, CLE International, Paris, 2009

J Pecheur, J. Girardot, Echo (B2), cahier d'exercices, CLE International, Paris, 2009

Références :

· Girardeau, Bruno et Nelly Mous. Réussir le DELF B2. Paris: Didier, 2010.

**Introduction à la littérature française: Typologie des genres littéraires français -
Introduction to French Literature**

Course Code: BFR503

Credit Units: 04

Course Learning Outcome((CLO)

CLO1. Introduce the students to French literature across the centuries

CLO2. Explore various literary genres

CLO3. Interpret different themes and message

CLO4. Demonstrate comprehension of the text

Course Content: (Material compiled by the Department)

Module 1: Roman (extraits)

Flaubert : Madame Bovary

André Gide : La symphonie pastorale

Albert Camus : La Peste

Marguerite Duras : Moderato cantabile

Module 2: Théâtre

Racine : Phèdre

Molière: Le malade imaginaire

Beaumarchais : Le Barbier de Séville

Eugène Ionesco : Rhinocéros

Module 3: Poésie

Ronsard : Quand vous serez bien vieille...

Victor Hugo : Vieille Chanson du Jeune Temps (Les Contemplations)

Baudelaire : Correspondances

Paul Eluard : Liberté

Mallarmé : Le cygne

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

- Castex, P.G., P. Surer et G. Becker. Histoire de la Littérature Française. Paris : Hachette, 1974. Print.
- Itinéraires Littéraires. (Moyen Age XVIe, XVIIe, XVIIIe) Paris: Collection Hatier. Print.
- Dix Siècles de Littérature Française. Paris :CollectionBordas, 1991. Print.

Literary Text: le petit prince by St.Exupery

Course Code: BFR504

Course Credit:03

Course Objective:

- To enable students to do a thorough study of a literary work-*Le Petit Prince* de Saint-Exupéry
- To enable students to understand it with respect to the author and with respect to his other works
- To provide a broad perspective of the thoughts and philosophy of the period, and contemporary works

Course Content:

Module 1

The author (Saint-Exupéry), his biography, his works

Module 2

Era of Saint-Exupéry, Contemporary authors and their works

Module 3

Analytical study of *Le Petit Prince*

Module 4

The concept of childhood, wisdom and love in the works of Saint-Exupery and his contemporary authors

Examination Scheme:

Mid Term	Viva	Attendance	End Sem Exam
15	10	5	70

Text & References:

DE SAINT EXUPERY Antoine, Le Petit Prince, La Pléiade, Gallimard, 1994.

DES VALLIERES Natalie, Saint – Éxupéry : L’archange et l’écrivain, Découvertes Gallimard, 2013

***L'Etranger* de Albert Camus–une étude approfondie d'une œuvre complète(A detailed study)**

Course Code: BFR505

Course Credit:03

Course Objective:

- To enable students to do a thorough study of a literary work- ***L'Etranger* de Albert Camus**
- To enable students to understand it with respect to the author and with respect to his other works
- To provide a broad perspective of the thoughts and philosophy of the period, and contemporary works

Course Content:

Module 1

The author (Albert Camus), his biography, his works

Module 2

Era of Albert Camus, Contemporary authors and their works

Module 3

Analytical study of *L'Etranger*

Module 4

The concept of absurdity, loneliness and sadness in the works of Albert Camus and his contemporary authors

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

- *Camus, Albert, 1913-1960. L'Étranger. [Paris] :Gallimard, 1990.*
- McCarthy, Patrick (2004). *The Stranger (Albert Camus)*. New York: Cambridge University Press. p. 12. [ISBN 0-521-8321-01](#).

Contemporary French and Francophone Literature- II

Course Code: BFR506

Course Credit:03

Course Objective:

- To enable students to do a thorough study of 2 literary works with main excerpts-
 - Le Clézio: Le chercheur d'or (extracts)
 - Anne Hébert: Kamouraska (extracts)
- To enable students to understand it with respect to the author and with respect to his other works.
- To provide a broad perspective of the thoughts and philosophy of the period, and contemporary works thereby developing a critical approach in that area.

Course Content:

Module 1

- Le Clézio: Le chercheur d'or (extracts)

Module 2

- Anne Hébert: Kamouraska (extracts)

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam

10	15	10	10	5	50
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Text & References:

- Hébert, Anne. *Kamouraska*. Paris: Editions du Seuil, 1970
- Le Clézio, J. M. G. *Le Chercheur d'or*. Paris: Gallimard, 1985

SUMMER INTERNSHIP PROJECT

Course Code: BFR550

Credit Units: 10

Course Learning Outcome:

CLO1. Summer Internship Project is primarily a research work and its primary objective is to gain knowledge through practical experience.

CLO2. Sound appreciation and understanding of the theoretical principles learnt during the semesters

CLO3. It involves academic reading of several sources and writing on a particular topic relating to the core course or courses of the program.

CLO4. It is a scholarly inquiry into academic problems or issues.

CLO5. It should involve a systematic approach to gathering and analysis of information/ideas, leading to production of a structured report.

CLO6. The research topic should hold significant academic value commensurate with level of the Program.

GUIDELINES FOR SUMMER INTERNSHIP PROJECT

Topic

The topic of the paper will be of the student's choice with consent of the Supervisor. It must be relevant to the content of the course, but it should be treated in greater depth than it is covered in class. Make sure the subject focuses on one question or topic so that the paper has a definite purpose. Composing an introduction and conclusion can be a good test of the cohesiveness of the subject. The domain can include literature, culture, civilization or any other related areas.

Synopsis of Summer Internship Project.

A Synopsis of the Summer Internship Project Report should be submitted to the Board of Studies of the Institute. The Board, after deliberation, will suggest changes and modifications and will assign a supervisor from amongst the teaching faculty of the Institute. The synopsis should include the following –

Title of Summer Internship Project Report Introduction

Problems of Research/Presenting the topic/Problems/Issues of Research

Objectives of Research Tentative Subheadings

Suggested readings

Source Material and References

Presenting your own ideas in a Summer Internship Project Report is encouraged. However, the paper must be based on facts and opinions from authoritative sources and these sources must be given proper credit. A minimum of three published sources should be cited. Direct quotes must be placed inside quotation marks or in indented sections and should be used sparingly. Paraphrasing is better in most cases. There are two popular ways to cite references. One is to place superscripted numbers in the text with corresponding footnotes at the bottom of the page or endnotes at the end of the paper. More typical of scientific papers is to place the author and year in parentheses (Heaton, 1984). In either case you need a bibliography of all cited sources at the end of the paper with author(s), year, title, publication or publisher, volume, and pages. These should be in alphabetical order by name of the primary author. Preference however should be given to MLA Style Sheet. Be sure to find source materials that are specific to your topic, either books or journal articles. Textbooks are usually too general and should be avoided. The libraries have published and computerized indexes that can be used to find relevant sources. See the Supervisor or a reference librarian if you are unfamiliar with these resources.

Plagiarism is the presenting of someone else's wording or ideas as one's own and is a violation of university policy. If you use someone else's words or ideas, you must give them proper credit. You must also obtain permission from the Supervisor before using your Summer Internship Project Report for more than one course.

Length and Format

Length is not important; 20 to 25 pages of 2 spaced texts is a good target. The title, author, course, and date should be typed onto a cover sheet. Illustrations are not required but are often useful in explaining graphical concepts and in giving the paper character. The bibliography should be the last section of the paper. The entire report has to be submitted in two spiral bound copies.

Grading

Students are required to make two submissions: a first draft and a final draft prior to final submission. The first draft is not to be a "rough" draft; it should be a completed, typed paper like you would ordinarily submit. It will read by the supervisor carefully, who may offer suggestions for improvement, give it a grade, and return it to you promptly. The final draft, which is worth a larger share of the points, is your chance to respond to the suggestions and submit an improved paper. This will make the writing of a Summer Internship Project Report more of a learning experience. We strongly suggest using a word processor so that the final draft can be created by editing rather than complete retyping.

Grading is based on both research content and presentation. Your paper should demonstrate that you have gained a level of expertise in the subject by studying the relevant literature. Your presentation should be clean and convincing with proper use of paragraphs, complete sentences, and correct grammar, spelling, and punctuation. Make your Summer Internship Project Report look and sound professional.

Evaluation Scheme:

Components	Presentation Content	Oral Skills	Presentation	Viva	File Work
Weightage (%)	25	25		25	25

Project Schedule

Registration

First week of the last academic month

Allotment of Faculty Guide takes place in accordance to the area of interest / stream chosen by the student at the time of registration.

Approval of Project Topic

Week following the week of registration

Submission of Synopsis To Faculty Guide

Prior to the completion of End-Term Examination. The synopsis could be submitted any time after the allotment of project topic but certainly must be before completion of last examination.

Duration of Project

The project stretches for the full duration of the Semester break

Submission of Report

First Draft – After 20 Days from the commencement of the project
Second Draft – 20 days after submission of the first draft.

The first and second reports could be submitted through e-mail or any other medium as per the consent of faculty guide.

Final Draft – Within second week of rejoining of institution

BEHAVIOURAL SCIENCE - V (GROUP DYNAMICS AND TEAM BUILDING)

Course Code: BSS504

Credit Units: 01

Course learning outcomes (CLOs)

At the successful completion of this course you (the student) should be able to:

1. Recognize their personality and individual differences and identify its importance of diversity at workplace and ways to enhance it.
2. Recognize effective socialization strategies and importance of patriotism and taking accountability of integrity.
3. Recognize different types of human rights and its importance.
4. Identify Indian values taught by different religions.
5. Identify long term goals and recognize their talent, strengths and styles to achieve them.

Course Objective:

To inculcate in the students an elementary level of understanding of group/team functions
To develop team spirit and to know the importance of working in teams

Course Contents:

Module I: Group formation

Definition and Characteristics
Importance of groups
Classification of groups
Stages of group formation
Benefits of group formation

Module II: Group Functions

External Conditions affecting group functioning: Authority, Structure, Org. Resources, Organizational policies etc.
Internal conditions affecting group functioning: Roles, Norms, Conformity, Status, Cohesiveness, Size, Inter group conflict.
Group Cohesiveness and Group Conflict
Adjustment in Groups

Module III: Teams

Meaning and nature of teams
External and internal factors effecting team
Building Effective Teams
Consensus Building
Collaboration

Module IV: Leadership

Meaning, Nature and Functions
Self leadership
Leadership styles in organization
Leadership in Teams

Module V: Power to empower: Individual and Teams

Meaning and Nature
Types of power
Relevance in organization and Society

Examination Scheme:

Components	SAP	JOS	FC/MA/CS/HA	P/V/Q	A
Weightage (%)	25	15	30	25	05

SAP- Social Awareness Programme; **JOS-**Journal of Success; **HA-**Home Assignment; **P-** Presentation; **V-**Viva; **Q-**Quiz; **FC-** Flip class; **MA-** Movie Analysis; **CS-** Case study; **A-** Attendance

Text & References:

- Organizational Behaviour, Davis, K.
- Hoover, Judith D. Effective Small Group and Team Communication, 2002, Harcourt College Publishers
- Dick, Mc Cann & Margerison, Charles: Team Management, 1992 Edition, viva books
- Bates, A. P. and Julian, J.: Sociology - Understanding Social Behaviour
- Dressers, David and Cans, Donald: The Study of Human Interaction
- Lapiere, Richard. T – Social Change
- Lindzey, G. and Borgatta, E: Sociometric Measurement in the Handbook of Social Psychology, Addison – Welsley, US.
- Rose, G.: Oxford Textbook of Public Health, Vol.4, 1985.
- LaFasto and Larson: When Teams Work Best, 2001, Response Books (Sage), New Delhi
- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 2, Group (1996); Pfeiffer & Company
- Smither Robert D.; The Psychology of Work and Human Performance, 1994, Harper Collins College Publishers

Introduction à linguistique - Introduction to Linguistics

Course Code: BFR601

Credit Units: 04

Course Objective:

CLO1. To provide the students the basic knowledge of Linguistics and its various branches of study.

CLO2. To provide an understanding of the science of language

CLO3. To help them analyze linguistically the French language.

Course Contents:

Module I: Introduction

What is language and linguistics?

Design features of human language.

Various branches of Linguistics and their application.

Module II: Phonetics and Phonology

Anatomy and physiology of speech production

Classification of sounds through IPA symbols

Difference between Phonetics and Phonology.

Module III: Morphology

Basic concepts of morphology

Word Formation processes

Module IV: Syntax

Theories and concepts of Syntactic structure.

Analysis of sentence structure

Module V: Semantics

Basic concepts of Semantics

Meaning and types of Meaning

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

Text:

Fromkin, V., and R. Rodman. 1974 (9th Edition).. An Introduction to Language. New

York: Holt, Rinehart and Winston.

Introduction à la civilisation et la culture française et francophone- Overview of French and Francophone Culture and Civilisation - II

Course Code: BFR602

Credit Units: 04

3529

Course Learning Outcome(CLO)

CLO1. To give a broad geographical, historical, cultural and social background of France.

CLO2. To give an insight into the major events- historical, political and cultural of French society extending from French Revolution till today.

CLO3. To explore how France came into existence and what role it plays in the world, especially in Europe.

CLO4. To highlight the various cultural aspects like French festivals, cuisine, cinema, music and theatre.

Course Content

Module I

Repère géographique : carte de France relief (frontières, montagnes, rivières, grandes villes), régions de France, Départements d'Outre-Mer, pays francophones.

Module II

Repère historique : la monarchie et la Révolution Française, la Révolution Française et ses suites ; les Républiques

Module III

Repère politique : la République des Présidents, le choix de l'Europe, vers la France d'aujourd'hui

Module IV

Repère société: la citoyenneté, la place des femmes, les religions, l'individualisme

Module V

Repère culturel : les pratiques culturelles (les fêtes, la gastronomie, le cinéma, la peinture, la musique et la danse)

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

Mauchamp, Nelly. La France de Toujours : Civilisation. Paris : CLE Internationale, 2005. Print.

Bourel, Guillaume et Marielle Chevallier, Histoire. Paris :Hatier, 2002. Print.

Pecheur, Jacques. Civilisation Progressive du Français. Paris :CLE Internationale, 2010. Print

Compétences Langagières à l'Oral VI - Oral Communication-VI

Course Code: BFR603

Credit Units: 04

3530

Course Learning Outcome (CLO)

CLO1. To develop strategies of listening comprehension

CLO2. To be sensitized to nuances of speech, dialectical variations, and “registre de langage”

CLO3. To enrich the formulations, the linguistic tools and vary the sentence structure

CLO4. To develop logical thinking, to speak, argue and debate in a coherent and cohesive manner employing appropriate words of liaison, and transition

Course Content:

Preparing presentations, exposés on any topic, developing the techniques of debates, discussions; mastering the art of convincing through logical arguments

Exposé : présentation, appréciation et critique du texte et débat sur l’exposé

Genres littéraires: Présenter un texte littéraire

Se présenter à une interview

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text & References:

J Pecheur, J Girardot, Echo (B2), CLE International, Paris, 2009

Introduction à la Traduction -Introduction To Translation (Domain Elective)

Credits: 3

Course Code: BFR604

Course Learning Outcome (CLO)

CLO1. Acquainting students with basics of translation theories

CLO2. Understand the process of translation

CLO3. Practical training in techniques of translation

On completion of the course students will be able:

- Understand terminologies in Translation
- Use concepts of *Equivalence, Translation product and process* etc.
- Understand translation theories (skopos, polysystem...)
- Hands on training in Translation

Course Content:

Module 1: Introduction to Translation Concepts (source and target language; inter lingual and intra lingual translations...)

Module 2: Translation Studies: History of the Discipline

Module 3: Basic Translation Theories

Module 4: Translation practice: Basic texts (Literary, scientific and commercial) Students shall be made to translate texts from print/internet sources on different domains and shall be encouraged to dwell upon problems of translation (determining meaning, finding equivalents, translating “faithfully” etc...)

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Prescribed Textbook

- Munday, Jeremy, *Introducing Translation Studies. Theories and Applications*, Routledge, London, New York, 2012.

References:

- Vinay, Jean-Paul and Jean Darbelnet. *Comparative Stylistics of French and English : A methodology for translation*. Trans. Sagar, Juan C., and M.-J. Hamel. Amsterdam/ Philadelphia: Jean Benjamins Publishing Company, 1995. Print.
- Newmark, Peter. *A textbook of translation*. New York: Prentice-Hall International, 1988. Print.

Initiation à l'Interprétation-Initiation to Interprétation Consecutive (Domain Elective)

Course Code: BFR605

Credit Units: 03

Course Learning Outcome (CLO)

CLO1. To introduce students to Consecutive Modes of interpretation

CLO 2. To instruct them on Note taking techniques

CLO 3. Practical training on Interpretation

Course Contents:

Module 1

Defining Interpretation, distinguishing translation and Interpretation. Introducing modes of Interpretation: consecutive

Module 2

Methods of taking notes for Interpretation.

Module 3

Practicing Interpretation.

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text:

Seleskovitch, Danica, Lederer, Marianne, Pédagogie raisonnée de l'interprétation, Didier, Paris, 1988.

References

Seleskovitch, Danica, Lederer, Marianne, Interpréter pour traduire, Didier, Paris, 1986.

French and The Word-I

Course Code: BFR304

Credit Units: 04

1- French Colonization

2 -Indo-French ware and aftermath

Examination Scheme:

Components	M	V	A	EE
Weightage	15	10	05	70

References: Websites

French Literature

Course Code: BFR540

Credit Units: 05

Course Objective:

To introduce the students to French literature through extracts of texts selected from different literary genres of various famous authors across the centuries

Course Content: Material compiled by the Department from Itinéraires Littéraires, and Dix Siècles de Littérature Française

Module 1: Roman (extraits)

Flaubert : Madame Bovary

André Gide : La symphonie pastorale

Albert Camus : La Peste

Marguerite Duras : Moderato cantabile

Module 2: Théâtre

Racine : Phèdre

Molière: Le malade imaginaire

Beaumarchais : Le Barbier de Séville

Eugène Ionesco : Rhinocéros

Module 3: Poésie

Ronsard : Quand vous serez bien vieille...

Lamartine : Le Lac (Méditations) Victor Hugo : Vieille Chanson du Jeune Temps
(Les Contemplations)

Baudelaire : Correspondances

Paul Eluard : Liberté

Mallarmé : Le cygne

Examination Scheme:

Mid Term	Viva	Attendance	End Sem Exam
15	10	5	70

Text & References:

- Castex, P.G., P. Surer et G. Becker. Histoire de la Littérature Française. Paris : Hachette, 1974. Print.
- Itinéraires Littéraires. (Moyen Age XVIe, XVIIe, XVIIIe) Paris: Collection Hatier. Print.
- Dix Siècles de Littérature Française. Paris :Collection Bordas, 1991. Print.

Francophone Literature

Course Code: BFR506

Course Credit:03

Course Objective:

- To enable students to do a thorough study of 2 literary works with main excerpts-
 - Le Clézio: Le chercheur d'or (extracts)
 - Anne Hébert: Kamouraska (extracts)
- To enable students to understand it with respect to the author and with respect to his other works.
- To provide a broad perspective of the thoughts and philosophy of the period, and contemporary works thereby developing a critical approach in that area.

Course Content:

Module 1

- Le Clézio: Le chercheur d'or (extracts)

Module 2

- Anne Hébert: Kamouraska (extracts)

Examination Scheme:

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam

10	15	10	10	5	50
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Text & References:

- Hébert, Anne. *Kamouraska*. Paris: Editions du Seuil, 1970
- Le Clézio, J. M. G. *Le Chercheur d'or*. Paris: Gallimard, 1985

Project Work on Script Writing

Course Code: MEG250

Credit

Units: 08

3545

The project work is primarily a research work. It involves academic reading of several sources and writing on a particular topic relating to the core course or courses of the program. It is a scholarly inquiry into academic problems or issues. It should involve a systematic approach to gathering and analysis of information/ideas, leading to production of a structured report. For this project students have to select one text from the following and prepare Script of it.

Hard Times

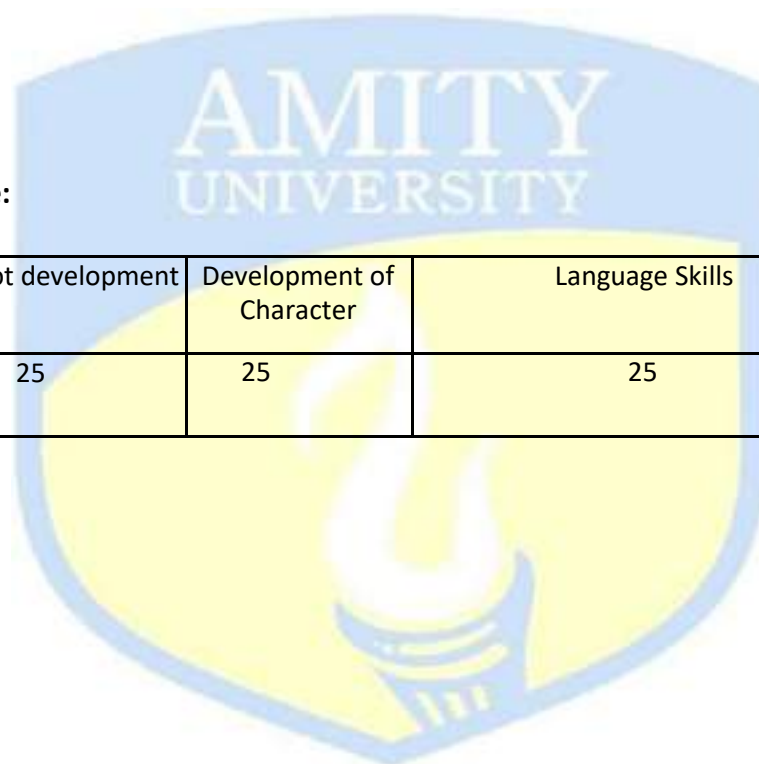
The Rivals

Mayor of Casterbridge

Morte D' Arthur

Evaluation Scheme:

Components	Plot development	Development of Character	Language Skills	Length
Weightage (%)	25	25	25	25



MEG311 -LATER COMEDIES AND POEMS

1. The Merchant of Venice
2. Much Ado About Nothing
3. As You Like It
4. Sonnet 33 – Full Many A Glorious Morning
5. Sonnet 55 – Not Marble
6. Sonnet 73: That Time of Year
7. Sonnet 116 – Let men o'the marriage of true minds

Examination Scheme:

Components	M	V	A	EE
Weightage	15	10	05	70

References:-

1. Barnet, Sylvan. *Twentieth Century Interpretations of the Merchant of Venice*. Michigan: Prentice Hall. 1970
2. Legatt, Alexander. *The Cambridge Companion to Shakespearean Comedy*. 2002
3. Vendler, Helen. *The Art of Shakespeare's Sonnets*. Massachusetts: Harvard University Press. 1997
4. Schoenfeldt, Michael. *A Companion to Shakespeare's Sonnets*. London: Wiley-Blackwell. 2010.
5. Tomarken, Edward. *As You Like It: Critical Essays (Shakespeare Criticism)*. New York: Routledge. 2009

Indian Drama & Theatre (Domain Elective)

Course Code: MEG306 Credit Units: 04

Course Objective:

The students will be learning introduction to Indian theatre and drama. The course aims to enrich the students with the rich knowledge and literary culture of Indian theatre. and will get an objective insight into the traditions and practices of India. They will delve deeply to ascertain how these teachings may inform and benefit them in future. History of Indian theatre and drama will awaken them for the literature of their own land. Major literary movements (Nai Kahani Movement) and developments in their respective areas will be dealt with in detail.

Text:

Bhasa:

Urubhanga

Bhavbhuti:

Uttarramcharita

Rabindra Nath Tagore: Mukta-Dhara

Mohan Rakesh: One Day Before Rainy Season

CONTINUOUS EVALUATION

COMPONENTS	MT	Q	PPT	VV	A
WEIGHTAGE%	15	10	10	10	5

(Q- Quiz; MT-Class Test-; PPT-Power Point Presentation; VV-Viva Voce; A- Attendance)

END TERM EXAM (EE)

COMPONENTS	EE
WEIGHTAGE %	50

Suggested Readings:

- Varadpande, M. History of Indian Theatre and Drama
- Gupta Jyotirindra Das. Indian Theatre
- Bhasa. Urubhanga
- Tagore, Rabindra Nath. Chitra
- Suresh Awasthi "Traditional Theatre Practices and Conventions" Sangeet Natak Akademi.
- Dhanamjaya; Haas, George C.O.(tr. from Sanskrit by) (1912). The Dasarupa or Treatise on Ten Forms of Drama – A Treatise on Hindu Dramaturgy. Columbia University.
- ., Nandikeśvara; Coomaraswamy, Ananda Kentish (tr by); Duggirala, Gopala Kristnayya (tr by) (1917). The Mirror of Gesture – Being the Abhinaya Darpana of Nandikeśvara. Harvard University Press.
- Shaw, Albert (1914). [Review of Reviews and World's Work, Volume 49](#). Review of Reviews company. p. [503](#). Chitra Rabindranath Tagore.

Postmodern Indian English Theatre & Drama (DE)

Course Code: MEG406

CreditUnits: 04

3564

Course Objective:

The need of the hour is knowing our (Indian) culture. National Education policy also focuses on incorporating Indian texts in education system. The course aims at developing the learners' interest in Indian theatre and drama. Students will be learning Postmodern drama, its trends and movements. Development of New Theatre Movement and other literary changes in the field of drama. In depth of study of the prescribed texts will enable them to the technicalities of Postmodern theatre & drama.

Text:

Badal Sircar: Indian History Made Easy

Vijay Tendulkar

Silence! The Court is in Session

Kiran Nagarkar: Bedtime Story

Mahesh Dattani: Dance Like a Man

CONTINUOUS EVALUATION

COMPONENTS	MT	Q	PPT	VV	A
WEIGHTAGE%	15	10	10	10	5

END TERM EXAM (EE)

COMPONENTS	EE
WEIGHTAGE %	50

Recommended Readings:

Banham, Martin, ed. 1998. The Cambridge Guide to Theatre. Cambridge: Cambridge UP.

Brandon, James R. 1981. Introduction. In Baumer and Brandon

Brockett, Oscar G. and Franklin J. Hildy. 2003. History of the Theatre. Ninth edition, International edition. Boston: Allyn and Bacon.

Baumer, Rachel Van M., and James R. Brandon, eds. 1981. Sanskrit Theatre in Performance. Delhi: Motilal Banarsidass, 1993.

Richmond, Farley. 1998. "India." In Banham (1998, 516–525).

Richmond, Farley P., Darius L. Swann, and Phillip B. Zarrilli, eds. 1993. Indian Theatre: Traditions of Performance. U of Hawaii P.

Sharma, Shrikrishna, ed. 1996. Rangkarmi. Cultural Societies of Rajasthan. (1996, 139)

Sarcar, Badal. Indian History Made Easy and other plays. Amazon.in

Nagarkar, Kiran. Bedtime Story.

3562. MATHEMATICS FOR ECONOMICS-I

Course Name	Course Code	LTP	Credit	Semester
Mathematics for Economics-I	BAE 101	3:1:0	4	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Use appropriate techniques to solve problems with calculus and linear algebra.
CLO 2	Interpret and use intermediate mathematical data, symbols and terminology.
CLO 3	Demonstrate understanding and proficiency in elementary skills in Mathematical Methods for Economics building on the knowledge and skills.
CLO 4	Select the appropriate mix of concept, logic and method of solution required for solving problems in Applied Economics.
CLO 5	Apply these mathematical methods to problems in the area of Applied Economics with confidence and accuracy.

B. SYLLABUS

Course Objective:

The real numbers; integers power, fractional powers; inequalities, interval and absolute values; how to solve simple Equations; equations with parameters; quadratic equations, linear equations for two unknowns, non-linear equations

Module I: Single and multivariable functions

Logic and proof techniques; Relations and functions, graph of functions; Types of functions: quadratic, Polynomial, Power, Exponential, Logarithmic, inverse function; sequences and series: Convergence, algebraic properties and applications; Continuous functions, Characterizations, properties with respect to various properties and applications

Module II: Differentiation

Slopes of curve, tangent and derivatives, increasing and decreasing functions, rates of change, simple rule of differentiation; explicit and implicit functions differentiation; convexity and concavity of curve, second and higher order derivatives and applications, total and partial differentiations, properties and applications, homogeneous and non-homogeneous functions, properties and applications, geometric presentation of differentiation.

Module III: Single Variable Optimization

Simple test for extreme points, the extreme value theorem, local extreme points, inflection points, marginal function.

Application in economics: Demand function- Elasticity of demand, relationship between price elasticity of demand and revenue, determine the price elasticity for general linear demand functions; Marginal revenue – Marginal utility, maximization of production, minimization of cost, Maximize profits of a firm with and without price discrimination in different markets etc.

Module IV: Multivariable Optimization (without constraint)

Two variable necessary and sufficient conditions, three or more variable optimization, local extreme points, comparative static and envelope theorem.
Application in economics: maximum profit of a firm that produces two goods or more, maximum profit of a firm that sells a single good in different markets with price discrimination.

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Books:

- Sydsaeter, K., Hammond, P. and A Strom (2012). Essential Mathematics for economic analysis, Pearson Education.
- Ian. Jacques (2006). Mathematics for Economics and Business, Pearson Education.
- Taro Yamane, Mathematics for Economist: An Elementary Survey.

3565. ECONOMIC HISTORY OF INDIA (1857-1947)

Course Name	Course Code	LTP	Credit	Semester
Economic History of India (1857-1947)	BAE 104	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	At the end of the course the student will be able to Acknowledge the economic development in colonial India and its impact on the world.
CLO 2	Develop a critical appreciation of evolution of economic theories and their impacts.
CLO 3	Assess, use, and synthesize different kinds of evidence from a variety of historical sources to make a coherent argument about the past

B. SYLLABUS

Course Objective: It will throw light on the economic history which will subsequently help the students to understand the trend of economic growth & development.

Module I: Colonial India: Back Ground and introduction

Over view of Colonial economy

Module II: Trends in macroeconomic aggregates

Population, labour force and occupational structure; National Income; Foreign trade and balance of payments

Module III: Agriculture

Agrarian structure and land relations, agricultural markets and institutions, Credit, commerce and technology; trends in performance and productivity, famine

Module IV: Traditional and Modern Industry

The deindustrialization hypothesis, rise of the modern industrial sector during the pre-war and the interwar period, industrial labour, growth of entrepreneurship. Railways and Economic Change

Module V: The Indian Economy at Independence

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Text & References:

Text:

- Tirthankar Roy (2000), The Economic History of India, 1857-1974, Oxford University Press, Ch. 3,4,7,8 & 9.
- Rajnarayan Chandavarkar (1985), "Industrialization in India before 1947: Conventional Approaches and Alternative Perspectives", Modern Asian Studies.

References:

- A.K. Bagchi (1976), "Deindustrialization in India in the Nineteenth Century: Some theoretical implications", Journal of Developmental Studies.
- A.K. Bagchi (1972), Private Investment in India, Orient Longman (1sted), Ch.2.

- J.N. Bhagwati and Padma Desai (1970), *India, Planning for Industrialization*, Oxford University Press, Chs. 2 & 3.
- Morris D. Morris (1965), *The Emergence of an Industrial Labour Force in India: A Study of the Bombay Cotton Mills 1854-1947*, Oxford University Press, last chapter.
- Rajat Ray (ed) (1992), *Entrepreneurship and Industry in India, 1800-1947*, Oxford University Press.
- Rajat Ray (1979), *Industrialization in India*, Oxford University Press, Ch. 4

Course Name	Course Code	LTP	Credit	Semester
Law and Economics (Corporate Law Hons. Paper-I)	LLB 603 CG	3:1:0	04	6

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Understand how laws are created and the function of law institutions.
CLO 2	Understand the impact of laws on businesses and society.
CLO 3	Familiarize with different aspects of laws and their scope
CLO 4	Apply economic analysis to determine the efficiency of laws.
CLO 5	Apply economic analysis to predict which laws will be issued
CLO 6	Recognize the influence of law and economics in society.
CLO 7	Issue critical opinions regarding legal topics using economic tools.

• **SYLLABUS**

Course Objective:

This course will use economic analysis to illuminate the structure of law in the fields of property law, tort law, contract law, and criminal law.

Course Contents:

Module I: Introduction to Law and Economics

An introduction to Law and Economics, Brief review of micro economic theory

Module II: Economic Theory of Tort Law

Comparison of Tort v. Contract Law, Breach of Duty, Proximate Cause of Harm, Hand Rule (Cost-benefit analysis), Economic Theory of Tort Law: Product Liability

Module III: Economic Theory of Contract Law

Legally enforceable contracts, Principal-Agent Problem (Introduction to Game Theory), Principal-Agent Problem (Introduction to Game Theory), Rule of Hadley, Economic Theory of Contract law, Judicial Approach and Economic efficiency.

Module IV: Economic Theory of Crime

Elements of a Crime, Comparison of Criminal v. Tort Law, Economic analysis of Crime and Criminal.

Module V: Economic theory of Property Rights

Ownership: Private, Public, Possession, Intellectual property rights, Economic Theory of Property.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Robert Cooter, Thomas ulem: Law and Economics
- Gopal Krishnan: Law and Economics
- A. Mitchell Polinsky: Handbook of Law and Economics

3567. AN INTRODUCTION TO POLITICAL THEORY

Course Name	Course Code	LTP	Credit	Semester
An Introduction to Political Theory	BAE 106	3:0:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Establishing a cemented platform for students to learn basics of human values and its significance in human life.
CLO 2	Upgrading analytical abilities to understand how different aspects of political theory are important for a better human society.
CLO 3	Empowering the students with the new approaches which shall develop their interest in the subject and make them understand it in deeper sense.
CLO 4	Appreciating Students learning to the basic fundamentals of political theory and its different nuances and complexities and how different concepts of political theory help making better citizens and finally better society.

B. SYLLABUS

Course Objective: It introduces the students to the idea of political theory, its history and approaches, and a critical evaluation of the project of political theory. Also helps the student familiarize with the basic normative concepts of political theory. Each concept is related to a crucial political issue that requires analysis with the aid of our conceptual understanding. This exercise is designed to encourage critical and reflective analysis and interpretation of social practices through the relevant conceptual toolkit. And it introduces the students to the important debates in the subject. These debates prompt us to consider that there is no settled way of understanding concepts and that in the light of new insights and challenges, besides newer ways of perceiving and interpreting the world around us, we inaugurate new modes of political explanation and judgment.

Module I: Introducing Political Theory

What is Politics: Theorizing the 'Political'
Traditions of Political Theory: Liberal, Marxist and Conservative
Approaches to Political Theory: Normative and Empirical
Critical Perspectives on Political Theory: Feminist and Postmodern

Module II: Importance of Freedom

Negative Freedom: Liberty
Positive Freedom: Freedom as Emancipation and Development
Important Issue: Freedom of belief and expression

Module III: Significance of Equality

Formal Equality: Equality of opportunity; political equality
Egalitarianism: Background inequalities and differential treatment
Important Issue: Affirmative action

Module IV: Indispensability of Justice

Procedural Justice
Distributive Justice
Global Justice

Important Issue: Capital punishment

Module V: The Universality of Rights

Natural Rights

Moral and Legal Rights

Three Generations of Rights

Rights and Obligations

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Text & References: Text:

- Bhargava, Rajeev and Ashok Acharya (eds), Political Theory: An Introduction. Pearson Longman, 2008. Pages 2-16.
- (ii) Bellamy Richard (ed), Theories and Concepts of Politics. Manchester University Press, New York, 1993. Pages 1-14
- Marsh David and Gerry Stoker (ed). Theory and Methods in Political Science, Macmillan Press Ltd, 1995, Pages 21-40 & 58-75.
- Rajeev Bhargava and Ashok Acharya (eds), Political Theory: An Introduction. Pearson Longman, 2008. Pages 17-36.

References:

- Mckinnon, Catriona (ed), Issues in Political Theory, New York, Oxford University Press, 2008, Pages 103-119.
- Knowles, Dudley, Political Philosophy, London, Routledge, 2001, Pages 69- 132. Swift, Adam, Political Philosophy: A Beginners Guide for Student's and Politicians, Cambridge, Polity Press, 2001, Pages 51-88.

3586. STATISTICS FOR ECONOMICS- I

Course Name	Course Code	LTP	Credit	Semester
Statistics For Economics- I	BAE 301	3:1:0	4	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Produce, evaluate and interpret summary statistics and graphics appropriate to a specific research question and the characteristics of a given data set.
CLO 2	Be familiar with various data types and presentation of data and be able to recognize the appropriate underlying distribution for descriptive analysis.
CLO 3	Demonstrate a working knowledge of the basics of The Research Method and its relationship to statistical inference
CLO 4	Understand the framework of statistical inference (estimation and hypothesis testing) based on random samples
CLO 5	Students will be able to synthesize and communicate the aims, methods, results and interpretation in the format of a statistical report.

B. SYLLABUS

Course Objective: This course introduces students to the econometric methods used to conduct empirical analysis in Economics. The course is designed to provide the students with the basic quantitative techniques needed to undertake applied research projects. It also provides the base for more advanced optional courses in econometrics.

Module I: Introduction:

Basic concepts: Population, Sample, Parameter, Statistic, Frequency distribution, Cumulative frequency distribution; Graphic and diagrammatic representation of data; Techniques of data collection. Sampling vs. Population, primary and secondary data.

Module II: Central Tendency and Dispersion:

Measures of Central Tendency: Mean, Median, Mode, Geometric mean, Harmonic mean; Measures of Dispersion; Range, Quartile deviation Mean deviation, Standard deviation; Skewness and Kurtosis, Moments.

Module III: Correlation and Regression:

Correlation: Simple; Coefficient of correlation; Karl Pearson and Rank correlation; Partial and Multiple Correlation analysis; Regression analysis – Estimation of a regression line in a bivariate distribution, Least squares method; Interpretation of correlation and regression coefficients; Coefficient of determination.

Module IV: Time series analysis, linear and exponential trend, forecasting

Concept and components, determination of trend (Linear, Quadratic and Exponential) and seasonal indices.

Module V: Index Numbers

Concept of an index number: Laspeyres's, Paasche's and Fisher's Index Numbers; Time Reversal, Factor reversal and circular tests; Chain base index; Problems in the Construction of an index number; splicing; base shifting and use of index number for deflating other series.

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Text:

- Allen Webster, Applied Statistics for Business and Economics, (3rd edition), McGraw Hill, International Edition 1998.

References:

- P.H. Karmel and M. Polasek, Applied Statistics for Economists (4th edition), Pitman, Australia.
- M.R. Spiegel (2nd edition), Theory and Problems of Statistics, Schaum Series.

3575. MICRO ECONOMICS-II

Course Name	Course Code	LTP	Credit	Semester
Micro Economics-II	BAE 202	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Analyze the impact of different types of costs on production & output.
CLO 2	Examine how firms take decision in a competitive market.
CLO 3	Analyze the effects of monopoly on firms & consumers.
CLO 4	Examine how firms behave in monopolistic & oligopolistic markets to meet their desired objectives.

Course Objective: The objective of the course is to acquaint the students with various market structures within which a firm operates. The Course also deals with long-term decision making and market efficiency.

B. SYLLABUS

Module I:

Production: Fixed and variable inputs, production function, total, average and marginal products, law of variable proportions, returns to scale. Isoquants, marginal rate of technical substitution, Cost of Production: Social and private costs of production, difference between economic and accounting costs, long run and short run costs of production, economies and diseconomies of scale and the shape of the long run and short run average cost, average variable cost and marginal cost and fixed cost. Concept of revenue: Total, Average and Marginal revenue

Module-II:

Perfect Competition: Meaning, revenue of a competitive firm, marginal cost curve and firm's supply decision, firm's short run decision to shut down, firm's long run decision to exit or enter a market, Equilibrium of the firm and the industry in the short and the long run. The supply curve in competitive market: the short run supply curve with fixed number of firms, long run market supply with entry and exit. Difference between accounting and economic profits, producer surplus

Module III:

Monopoly Market: Features, Kinds of monopoly, reasons for monopoly, Monopolist's decision and equilibrium, Shifts in demand curve and the absence of the supply curve, Measurement of monopoly power and the rule of thumb for pricing, Comparison of pure competition and monopoly. The social costs of monopoly power: deadweight loss, Price discrimination

Module IV:

Monopolistic Competition: Features, Price and output decision in short run and long run, Oligopoly: Features, Interdependence - Cournot's duopoly model, kinked demand model, collusive oligopoly: price leadership model and cartels

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Text & References:

- Pindyck, R and Rubinfeld, D. (2001). Microeconomics, 7th edition, Prentice Hall.
- Ahuja, H.L. (2006). Modern Microeconomics: Theory and Application, 14th edition, S. Chand Publication.
- Koutsoyiannis, A. (2005). Modern Microeconomics, 2nd edition, Macmillan Press LTD
- Parkin, M. (2008). Microeconomics, 8th edition, Pearson International.
- Baumol, William J. (2010). Economic Theory and Operations Analysis, 4th edition, Prentice Hall UK & PHI Learning Private Ltd. New Delhi.
- Varian, H.R. (2009). Intermediate Microeconomics: A Modern Approach, 9th edition, Affiliated East-West Press, New Delhi.
- Salvatore, D. (1991). Schaum's Outline of Theory and Problems of Microeconomic Theory, McGraw-Hill, International Edition, New Delhi.

3576. MACRO ECONOMICS – II

Course Name	Course Code	LTP	Credit	Semester
Macro Economics – II	BAE 203	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Explain the Classical and Keynesian model of income determination.
CLO 2	Understand the aggregate demand and aggregate supply.
CLO 3	Discuss the wage determination and natural rate of unemployment.
CLO 4	Explain the relationship between inflation and unemployment.

B. SYLLABUS

Course Objective: This is the second module of a three-module sequence on Macroeconomics. This course introduces students to formal modelling of the macro economy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces students to various micro-founded theories of macro behaviour, e.g., consumption and investment behaviour of households and the demand for money generated in the household sector.

Module I:

The closed economy in the short run Classical and Keynesian systems; simple Keynesian model of income determination; IS-LM model; fiscal and monetary multipliers

Module II:

Aggregate demand and aggregate supply curves: Derivation of aggregate demand and aggregate and supply curves; interaction of aggregate demand and supply to determine equilibrium output, price level and employment

Module III:

The labour market: Wage determination; wages, prices and employment; natural rate of unemployment; from employment to output.

Inflation, unemployment and expectations Phillips curve; adaptive and rational expectations; policy ineffectiveness debate

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Text & References:

Text:

1. Abel, A., Bernanke, B. (2016). Macroeconomics, 9th ed. Pearson Education.

2. Blanchard, O. (2018). *Macroeconomics*, 7th ed. Pearson Education.
3. Branson, W. (2013). *Macroeconomics: Theory and policy*, 3rd ed, East West Press.
4. Dornbusch, R., Fischer, S., Startz, R. (2018). *Macroeconomics*, 12th ed. McGraw-Hill.
5. Jones, C. (2016). *Macroeconomics*, 4th ed. W. W. Norton.
6. Mankiw, N. (2016). *Macroeconomics*, 9th ed. Worth Publishers.

Course Name	Course Code	LTP	Credit	Semester
INDIAN ECONOMY	ILB 501	3:1:0	04	5

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explain the concepts of economic development and growth, poverty and inequality, persistence of inequality, growth strategy for India, and how they are measured.
CLO 2	Explain the planning process, objectives and relevance of five-year plans for India to analyze the policy decisions
CLO 3	Describe the international trade and its multiplier impact on Indian manufacturing sector.
CLO 4	Describe economic reforms and its relevance in Indian context. Also highlight the importance of FDI for make in India (current context)

- SYLLABUS**

Course Objective:

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with emphasis on paradigm shifts and turning points.

Course Contents:

Module I

Indian economic growth, distribution and structural change: Comparative historical perspective Indian Economy at Independence, Planning and Economic Development, Economic Reforms, Growth and structural change, Fiscal and Budgetary developments.

Module II

Human Capital: Demography, health, and education; Population Growth and Economic Development, Population trends and Demographic Transition Theory, Microeconomic theory of fertility, National Population Policy, Demographic Dividend, Human Resource Development, Disparities and Divides, Health Indicators, Health care as Social responsibility, Discussion on NFHS, A Brief Overview on Education and Health Services in India:

Module III

Growth and Distribution: Poverty, inequality, unemployment, and policy interventions Poverty, Poverty lines in India, measuring poverty; Inequality meaning and trend, Unemployment, measuring unemployment, unemployment rate, Some characteristics of the Indian Labour market

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Edited by Uma Kapila. (2019). Indian economy since independence. Delhi: Academic Foundation.

- RaghbendraJha - Facets of India's Economy and Her Society Volume I - Current State and Future Prospects- Palgrave Macmillan UK (2018)
- Dutt, R., & Sundaram, K. Indian Economy. New Delhi: S. Chand & Co. Ltd (2016).
- Mishra, & Puri. Indian Economy. Bombay: Himalaya Publishing House (2015).

SUPPLEMENTARY READINGS

- Balakrishnan, P. (2007). The recovery of India: Economic growth in the Nehru era. *Economic and Political Weekly*, 42(45-46), 52-66.
- Bardhan, P. (2012). *Awakening giants, feet of clay: Assessing the economic rise of China and India*. Princeton University Press.
- Basu, K., Maertens, A. (2007). The pattern and causes of economic growth in India. *Oxford Review of Economic Policy*, 23, 143-167.
- Bhagwati, J., Panagariya, A. (2012). *India's tryst with destiny*, Collins Business.
- Centre for Sustainable Employment. (2018). *State of working India 2018*. AzimPremji University.
- Desai, S. (2015). Demographic deposit, dividend and debt. *The Indian Journal of Labour Economics*, 58, 217-232.
- Dreze, J., Khera, R. (2017). Recent social security initiatives in India, *World Development*, 98, 555-572.
- Dreze, J., Sen, A. (2013). *India: An uncertain glory*. Allen Lane.
- Joshi, V. (2016). *India's long road: The search for prosperity*. Allen Lane.
- Meenakshi, J. (2016). Trends and patterns in the triple burden of malnutrition in India. *Agricultural Economics*, 47, 115-134.
- Ministry of Finance. (2016). Universal basic income: A conversation with and within the mahatma. Chapter 9 in *Economic Survey*, 172-212.
- Panagariya, A., Mukim, M. (2014). A comprehensive analysis of poverty in India. *Asian Development Review*, 31, 1-52.
- Rangarajan Committee. (2014). *Report of the expert group to review the methodology for measurement of poverty*. Government of India.
- Rawal, V., Bansal, V., Bansal, P. (2019). Prevalence of undernourishment in Indian states: Explorations based on NSS 68th round data. *Economic and Political Weekly*, 54(15), 35-45.
- Rodgers, G. (2018). Inequality in the Indian growth regime. *Indian Journal of Human Development*, 12, 134-148.
- Thomas, J. (2014). India's labour market during the 2000s: An overview. In K. Ramaswamy (ed.): *Labour, employment and economic growth in India*. Cambridge University Press, 21-56.

- R Nagaraj (2013): "India's Economic Development", in AtulKohli and Prerna Singh edited, Routledge Handbook of Indian Politics, Routledge.
- Montek S Ahluwalia (2012): "Planning", in KaushikBasu and AnnemieMaertens edited, The New Oxford Companion to Economics in India, Oxford University Press
- Michael Lipton and Martin Ravallion (1987): "Poverty and Policy", HBDE Vol. 3B
- Dreze and Deaton (2009): "Food and Nutrition in India: Facts and Interpretations", Economic and Political Weekly, Vol. 44, No. 2, February 14.
- PulapreBalakrishnan (edited) (2011): Economic reforms and growth in India: Essays from Economic and Political Weekly, Hyderabad: Orient Blackswan.
- KaushikBasu and A. Maertens, eds, 2013, The New Oxford Companion to Economics, Oxford University Press.
- Edited by: RaghendraJha (2008). The Indian Economy Sixty Years After Independence. London: Palgrave Macmillan

3590. ECONOMICS OF HEALTH AND EDUCATION

Course Name	Course Code	LTP	Credit	Semester
Economics of Health and Education	BAE 305	3:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Apply the microeconomic tools and concepts to the topics of health and education, including contemporary policy issues.
CLO 2	To equip you with the skills to be able to understand and critique economic evaluations of health care interventions, and to be able to apply these evaluation skills more generally (i.e., to any economic project appraisal).
CLO 3	To encourage you to develop analytical and decision-making skills, including modest technical and quantitative proficiencies.

B. SYLLABUS

Course Objective: This is a course in applied economics, which will introduce the students to the study of health and education as components of human capital in the framework of economic theory.

Module I:

Role of health and education in human development: health and education outcomes and their relationship with macroeconomic performance

Module II:

Topics in health economic theory: demand for health, Grossman's model of demand for health, information asymmetry in healthcare demand, and the health insurance market, physician induced demand, adverse selection and moral hazard in health insurance

Module III:

Economic evaluation of health care: cost effectiveness and cost-benefit analysis; valuing life

Module IV:

Education: investment in human capital; rate of return to education: private and social; quality of education; signalling of human capital; theories of discrimination; gender and caste discrimination in India.

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Text & Reference:

- Bhattacharya, J., Hyde, T., Tu, P. (2014). *Health economics*, Palgrave Macmillan.

- Ehrenberg, R., Smith, R. (2012). *Modern labor economics: Theory and public policy, 11th ed.* Addison Wesley.
- Gary S. Becker (1993). *Human Capital: A Theoretical and Empirical Analysis with Special Reference to Education.* Chicago Press.

Course Name	Course Code	LTP	Credit	Semester
PUBLIC ECONOMICS	ILB 401	3:1:0	04	4

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	The students would be able to know the concepts of development and growth economics.
CLO 2	The students would be able to relate concepts to activities and decisions made in policy.
CLO 3	The students would be able to analyze the impact of key factors on economy.

- SYLLABUS**

Course Objective:

Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution, and stabilisation. The subject encompasses a host of topics including public goods, market failures and externalities. The paper emphasises on the theory of public economics and also on the Indian public finances.

Course Outline

Module I- Role of Government in a mixed economy: Market Efficiency and Market Failure; Basic questions of Public Economics: When should the Government intervene in the economy? How might the Government intervene? What are the effects of alternative interventions? Efficiency and Equity – Social Choices; The Fiscal functions: an overview, Government failures.

Module II- Public Goods: The Different Kinds of Goods, Public Goods, The Free-Rider Problem, Some Important Public Goods, Public Choice, cost-benefit analysis.

Module III- Externalities and Property Rights: the problem and its solutions, taxes versus regulation, property rights, the Importance of Property Rights, the Coase theorem.

Module IV- Taxation: Taxes and Efficiency: Deadweight Losses, Administrative Burden; Marginal Tax Rates versus Average Tax Rates; Lump-Sum Taxes; Taxes and Equity: The Benefits Principle, The Ability-to-Pay Principle- Vertical Equity, Horizontal Equity; Tax Incidence and Tax Equity; The Trade-off between Equity and Efficiency; Cases: Should Income or Consumption Be Taxed? Who Pays the Corporate Income Tax?

Module V- Indian Public Finances: Overview of Indian Public Finances and Public Spending; Tax System in India, Trends, and Issues: What ails the Indian Tax System? Regional Inequality and Indirect Tax Reform in India; Deficits and Debt, Deficit financing, The FRBM Act; Fiscal federalism in India

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- J. Hindriks, G. Myles: *Intermediate Public Economics*, MIT Press, 2006.
- H. Rosen, T. Gayer: *Public Finance*, 9th ed., McGraw-Hill/Irwin, 2009.
- Joseph E. Stiglitz, *Economics of the Public Sector*, W.W. Norton & Company, 3rd edition, 2000.
- R.A. Musgrave and P.B. Musgrave, *Public Finance in Theory & Practice*, McGraw Hill Publications, 5th edition, 1989.
- Gruber, J. (2013). *Public Finance and Public Policy*. New York: Worth Publishers.
- John Cullis and Philip Jones, *Public Finance and Public Choice*, Oxford University Press, 1st edition, 1998.
- Harvey Rosen, *Public Finance*, McGraw Hill Publications, 7th edition, 2005.
- Mahesh Purohit, *Value Added Tax: Experiences of India and Other Countries*, 2007.
- Kaushik Basu and A. Maertens (ed.), *The New Oxford Companion to Economics in India*, Oxford University Press, 2013.
- M.M. Sury, *Government Budgeting in India*, 1990.

3611. ECONOMETRICS—BASIC THEORY & APPLICATION

Course Name	Course Code	LTP	Credit	Semester
Econometrics – I	BAE 502	3:1:0	4	5

A. Course Learning Outcomes (CLO)

CLO 1	Understand basic econometric concepts & appraise econometric methodology.
CLO 2	Comprehend & analyse the issues involved in formation of Simple Linear Regression model.
CLO 3	Comprehend & analyse the issues involved in formation of Multiple Linear Regression model.
CLO 4	Assess the impact of violations of assumptions of OLS & correctly re-specify the model in case of violation.
CLO 5	Critically examine the issues involved in the specification of OLS Model.

B. Syllabus

Course Objective:

This course presents the basic econometrics techniques emphasizing numerical estimation of economic relationships as applied to practical economic and managerial problems. It enables the students to learn the basic econometric techniques relating to the estimation of parameters. On successful completion of the course the students should have understood the estimation techniques, learned the difficulties involved in the estimation process, evaluation of parameters and enable understanding of scientific decision making process.

Course Contents:

Module I: Nature and Scope of Econometrics,

The methodology of econometric research; Specification and estimation of an econometric model; Basic concepts of estimation

Module II: Simple Linear Regression Model: Two Variable Case

Estimation of model by method of ordinary least squares, properties of estimators, goodness of fit; tests of hypotheses, scaling and units of measurement, confidence intervals, Gauss Markov theorem, forecasting.

Module III: Multiple Linear Regression Model.

Estimation of parameters; properties of OLS estimators, goodness of fit, partial regression coefficients, testing hypotheses, functional forms of regression models, qualitative (dummy variables) independent variables

Module IV: Violations of Classical Assumptions and Remedies

Multicollinearity, Heteroscedasticity and Auto-correlation

Module V: Specification Analysis

Omission of a relevant variable; Inclusion of irrelevant variable; Tests of Specification Errors

Examination Scheme:

Components	P0 (Attendance)	P1	C1	CT	EE1
Weightage (%)	5	5	5	15	70

Text:

- A Koutsoyiannis, —Theory of Econometrics: An Introduction Exposition of Econometric Methods, Educational Low-Priced Books Scheme, McMillan Education Ltd. (1992).
- Damodar Gujarathi "Basic Econometrics", Tata McGraw Hill Ltd, 2010

References:

- Christopher Dougherty, Introduction to Econometrics, Oxford University Press, 3rd Edition, Indian Edition, 2007.
- Jan Kmenta, Elements of Econometrics, Indian Reprint, Khosla Publishing House, 2nd edition, 2008.A.S. Goldberger (1998), Introductory Econometrics, Harvard University Press, Cambridge.
- Suresh K.Ghose —Econometrics, Prentice Hall of India private limited, New Delhi

3612. FINANCIAL ECONOMICS

Course Name	Course Code	LTP	Credit	Semester
Financial Economics	BAE 503	3:0:0	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Analyze the impact of domestic economic issues on internal economic situation.
CLO 2	Evaluate the Investment Theory and Its Possible Implementation on Practical Ground.
CLO 3	Examine how industrial and home financial policies works and affect economic growth, employment, trade, inflation and expectations.
CLO 4	Analyze the effects of new industrial financial policies (e.g. FDIs and FIIs) on domestic economy.
CLO 5	Examine how government's fiscal and monetary policy affects financial market, aggregate demand and aggregate supply of any economy.

B. SYLLABUS

Course Objective : All modern, developed economies have a sophisticated financial system which incorporates both the financial institutions and financial markets. Over the period of time, the financial system has undergone revolutionary changes and rapid development. Financial markets are becoming ever more complex, offering new types of financial instruments. This course aims to enable the learners in developing an understanding of the financial system in the era of liberalisation, privatisation and globalisation.

Module I: Credit and Financial System

Meaning, kinds and sources of credit, financial system: Functions and structure. Financial Intermediation and Financial Intermediaries. Financial system and economic development; Indicators of Financial Development Overview of Indian financial system.

Unit-II: Financial Institutions

Financial institutions: meaning and types; NBFIs- Definition, types, growth and their impact on India's economic development; Small savings: Growth and composition; Provident funds, Pension funds; Credit rating agencies.

Module III: Financial Markets

Structure and functions of financial markets; Money market and its constituents-Call money market, Treasury bill market, Commercial bill market, Repo market, commercial paper market; Certificate of deposits market; Capital Market-Government securities market; Primary and secondary market for securities; SEBI-Objectives, functions and working.

Examination Scheme:

Components	P0 (Attendance)	P1	C1	CT	EE1
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Weightage (%)	5	5	5	15	70
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Text & References:

- Bodie, Robert c Merton and David Cleaton (2009), Financial Economics, Pearson
- Elton, Gruber Brown, Goetzmann (2007), Modern Portfolio Theory and Investment Analysis
- Prasanna Chandra (2010), International Analysis and portfolio Management, Tata McGraw Hill
- Avadhani, V.A., Investment and Security markets in India, Himalaya Publishing House, New Delhi.
- Bhole, L.M., Financial Institutions & Markets, Tata McGraw-Hill Publishing Co., New Delhi
- Miskin. F, Economics of Money, Banking and Financial Markets, MIT Press, Cambridge
- Suraj B. Gupts, Monetary Economics–Institutions, Theory and Policy, S.Chand & Company Ltd, New Delhi.
- R.S. Sayers, Modern Banking, Oxford University Press, London.
- Websites for reference <http://financialmanagement-strategy.com>

<http://financialmanagementguide.investmentzone.com>

<http://web.info.comt>

<http://www.global-investment-institute.com>

3626. STRATEGIC MANAGEMENT

Course Name	Course Code	LTP	Credit	Semester
Strategic Management	BAE 602	3:0:0	3	6

A. Course Learning Outcomes (CLO)

CLO 1	Compare and contrast different perspectives that characterize strategy making;
CLO 2	Identify strategic issues and relevant external and internal factors that need to be addressed by the company;
CLO 3	Apply theories of strategic fit to the formulation of effective strategy for the dynamic environment; and
CLO 4	Analyze futuristic challenges that firms face in maintaining future strategic plans.

B. Syllabus

Course Objective:

The objective of this course is to develop an understanding of;

- The integrative role of all areas of management in business.
- The prescriptive and descriptive ideas of theorist's practitioners and researchers in the field.
- The principles of management and their relevance in business.
- The methods and techniques of strategic choice and strategic implementation over different industries
- Measurement of performance in various business and effect of strategies
- Difference between traditional and contemporary business management

Course Contents:

Module I: Introduction

Concept of Planning, Evolution of Strategic Management, Corporate Strategy, Patterns of Strategy Development, Levels of Strategy, Competitive scope and value chain

Module II: Strategic Analysis

Mission, Vision and Business Definition, Environmental Threat and Opportunity Profile (ETOP), Industry Analysis, Strategic Advantage Profile (SAP), Competitor analysis, market analysis, environmental analysis and dealing with uncertainty, scenario analysis and SWOT Analysis.

Module III: Strategic Choice

Traditional Approach - Strategic Alternatives, Various models like BCG, GE Nine Cell Matrix, Hofer's Model, Strickland's Grand Strategy Selection Matrix, Basis of Choice; Michael Porter's Approach - Generic competitive strategies, Cost advantage, differentiation, technology and competitive advantage, substitution, competitor, complementary products and competitive advantage, strategic vision vs. strategic opportunism, Coevolving and patching.

Module IV: Offensive and Defensive Competitive Strategies

Industry scenarios, advantages and disadvantages of defensive strategies, advantages and disadvantages of offensive strategies.

Module V: Strategic Implementation

Operationalizing Strategy, Institutionalizing Strategy, Strategic Control, Balanced Scorecard – Concepts and applications in strategy implementation

Examination Scheme:

Components	P0 (Attendance)	P1	C1	CT	EE1
Weightage (%)	5	5	5	15	70

Text & References:

Text:

- Azhar Kazmi, Business Policy and Strategic Management, 2nd Edition, Tata McGraw Hill.
- Kaplan Robert & Norton David P., 2001, Strategic Focused Organization, 1st Ed., Harvard Business School Press.

References:

- Pearce John A & Robinson R B, 1977, Strategic Management: Strategy Formulation and Implementation, 3rd Ed., A.I.T.B.S. Publishers & Distributors.
- Aaker David, Strategic Market Management, 8th Ed., John Wiley and Sons
- Regular reading of all latest Business Journals: HBR, Strategist, Business World, Business India, Business Today.
- Porter Michael, Competitive Advantage: Creating and sustaining superior performance, Free press.
- Thomson & Strickland, Business Policy and Strategic Management, 14th Ed., Tata Mc Graw Hil

3590. ECONOMICS OF HEALTH AND EDUCATION

Course Name	Course Code	LTP	Credit	Semester
Economics of Health and Education	BAE 305	3:0:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Apply the microeconomic tools and concepts to the topics of health and education, including contemporary policy issues.
CLO 2	To equip you with the skills to be able to understand and critique economic evaluations of health care interventions, and to be able to apply these evaluation skills more generally (i.e., to any economic project appraisal).
CLO 3	To encourage you to develop analytical and decision-making skills, including modest technical and quantitative proficiencies.

B. SYLLABUS

Course Objective: This is a course in applied economics, which will introduce the students to the study of health and education as components of human capital in the framework of economic theory.

Module I:

Role of health and education in human development: health and education outcomes and their relationship with macroeconomic performance

Module II:

Topics in health economic theory: demand for health, Grossman's model of demand for health, information asymmetry in healthcare demand, and the health insurance market, physician induced demand, adverse selection and moral hazard in health insurance

Module III:

Economic evaluation of health care: cost effectiveness and cost-benefit analysis; valuing life

Module IV:

Education: investment in human capital; rate of return to education: private and social; quality of education; signalling of human capital; theories of discrimination; gender and caste discrimination in India.

Evaluation Scheme:

Components	P0 (Attendance)	C1	C2	C3	Mid Term	ET	Total
Weight-age (%)	5	10	10	10	15	50	100

Text & Reference:

- Bhattacharya, J., Hyde, T., Tu, P. (2014). *Health economics*, Palgrave Macmillan.

- Ehrenberg, R., Smith, R. (2012). *Modern labor economics: Theory and public policy, 11th ed.* Addison Wesley.
- Gary S. Becker (1993). *Human Capital: A Theoretical and Empirical Analysis with Special Reference to Education.* Chicago Press.

HISTORY OF INDIA-I

Course Code BHH 101

Credits: 03

MODULE I: Reconstructing Ancient Indian History

- a) Early Indian notions of History
- b) Sources and tools of historical reconstruction.
- c) Historical interpretations (with special reference to gender, environment, technology, and regions).

MODULE II: Pre-historic hunter-gatherers

- a) Palaeolithic cultures- sequence and distribution; stone industries and other technological developments.
- b) Mesolithic cultures- regional and chronological distribution; new developments in technology and economy; rock art.

MODULE III: The advent of food production

- a) Understanding the regional and chronological distribution of the Neolithic and
- b) Chalcolithic cultures: subsistence, and patterns of exchange.

MODULE IV: The Harappan civilization

- a) Origins; settlement patterns and town planning; agrarian base; craft productions and trade; social and political organisation; religious beliefs and practices; art; the problem of urban decline and the late/post-Harappan traditions.

MODULE V: Cultures in transition-settlement patterns, technological and economic developments; social stratification; political relations; religion and philosophy; the Aryan Problem.

- a) North India (circa 1500 BCE-300 BCE)
- b) Central India and the Deccan (circa 1000 BCE – circa 300 BCE)
- c) Tamilakam (circa 300 BCE to circa CE 300)

ESSENTIAL READINGS

- D. P. Agrawal, *The Archaeology of India*, 1985
- Bridget & F. Raymond Allchin, *The Rise of Civilisation in India and Pakistan*, 1983.
- A. L. Basham, *The Wonder that Was India*, 1971.
- D. K. Chakrabarti, *The Archaeology of Ancient Indian Cities*, 1997, Paperback.
- D. K. Chakrabarti, *The Oxford Companion to Indian Archaeology*, New Delhi, 2006.
- H. C. Raychaudhuri, *Political History of Ancient India*, Rev. ed. with Commentary by B. N. Mukherjee, 1996.
- K. A. N. Sastri, ed., *History of South India*, OUP, 1966.
- R. S. Sharma, *Material Culture and Social Formations in Ancient India*, 1983.
- Upinder Singh, *A History of Ancient and Early Medieval India*, 2008.
- Romila Thapar, *Early India from the Beginnings to 1300*, London, 2002.

SUGGESTED READINGS

- Uma Chakravarti, *The Social Dimensions of Early Buddhism*. 1997.
- Rajan Gurukul, *Social Formations of Early South India*, 2010.
- R. Champakalakshmi, *Trade. Ideology and urbanisation : South India 300 BC- AD 1300*, 1996.

SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE ANCIENT WORLD

Course Code BHH 102

Credits: 03

MODULE I: Evolution of humankind; Palaeolithic and Mesolithic cultures.

MODULE II: Food production: beginnings of agriculture and animal husbandry.

MODULE III: Bronze Age Civilisations, with reference to any one of the following: i) Egypt (Old Kingdom); ii) Mesopotamia (up to the Akkadian Empire); iii) China (Shang); iv) Eastern Mediterranean (Minoan)—Economy, social stratification, state structure, religion.

MODULE IV: Nomadic groups in Central and West Asia; 'Debate' on the advent of iron and its implications

MODULE V: Slave society in ancient Greece; agrarian economy, urbanisation, trade.

MODULE VI: *Polis* in ancient Greece: Athens and Sparta; Greek Culture.

ESSENTIAL READINGS

Burns and Ralph. *World Civilisations*.

Cambridge History of Africa, Vol. I.

V. Gordon Childe, *What Happened in History*.

G. Clark, *World Prehistory: A New Perspective*.

B. Fagan, *People of the Earth*.

Amar Farooqui, *Early Social Formations*.

M. I. Finley, *The Ancient Economy*.

Jacquetta Hawkes, *First Civilisations*.

G. Roux, *Ancient Iraq*.

Bai Shaoyi, *An Outline History of China*.

H. W. F. Saggs, *The Greatness that was Babylon*.

B. Trigger, *Ancient Egypt: A Social History*.

UNESCO Series: *History of Mankind*, Vols. I – III./ or New ed. *History of Humanity*.

R. J. Wenke, *Patterns in Prehistory*.

SUGGESTED READINGS

G. E. M. Ste Croix, *Class Struggles in the Ancient Greek World*.

J. D. Bernal, *Science in History*, Vol. I.

V. Gordon Childe, *Social Evolution*.

Glyn Daniel, *First Civilisations*.

A. Hauser, *A Social History of Art*, Vol. I.

ECONOMIC HISTORY OF INDIA (1757 to 1947)

Course Code BHH 103

Credits: 03

This course analyses key aspects of Indian economic development during the second half of British colonial rule and it investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule on India's economic development after independence in 1947.

MODULE I: Introduction: Colonial India: Background and Introduction Overview of colonial economy, Macro Trends National Income; population; occupational structure.

MODULE II: Agriculture Agrarian structure and land relations; agricultural markets and institutions – credit, commerce and technology; trends in performance and productivity; famines.

MODULE III: Railways and Industry Railways; the de-industrialisation debate; evolution of entrepreneurial and industrial structure; nature of industrialisation in the interwar period; constraints to industrial breakthrough; labour relations.

MODULE IV: Economy and State in the Imperial Context, The imperial priorities and the Indian economy; drain of wealth; international trade, capital flows and the colonial economy – changes and continuities; government and fiscal policy.

Selected Readings:

1. Lakshmi Subramanian, History of India 1707-1857, Orient Blackswan, 2010, Chapter 4.
2. Sumit Guha, 1991, Mortality decline in Early 20th Century India, Indian Economic and Social History Review (IESHR), pp. 371-74 and 385-87.
3. Tirthankar Roy, The Economic History of India 1857-1947, Oxford University Press, 3rd edition, 2011.
4. J. Krishnamurty, Occupational Structure, Dharma Kumar (editor), The Cambridge Economic History of India, Vol. II, (henceforth referred to as CEHI), 2005, Chapter 6.
5. Irfan Habib, Indian Economy 1858-1914: A People's History of India, Vol.28, Tulika
6. Dharma Kumar, Cambridge Economic History of India: Vol. II C.1757,-1970, CUP, 1983

HISTORY OF LATIN AMERICA (C. 1500 – 1960s)

Course Code: BHH 104

Credits: 03

Module I: Conquest of America and its Repercussions, with special reference to Mexico and Peru.

Module II:

Economic Transformations:

[a] Mining

[b] Trade

[c] Agriculture and forests

Social Transformation:

[a] Decimation of indigenous peoples

[b] Demographic changes

[c] Emergence of new social classes

Module III: Bolivar's Vision and the Emergence of New States in the first half of the 19th Century, Protests and Rebellions:

[a] Peasants

[b] Labour

[c] Indigenous communities

Module IV: Assertion of the U.S. Hegemony in the Twentieth Century.

ESSENTIAL READINGS

F. Ade Ajayi (ed.), *UNESCO General History of Africa*, Vol. VI, 1989, relevant sections only.

Ralph Austen, *African Economic History*.

Leslie Bethell, ed., *Cambridge History of Latin America*, 10 Vols., 1984-95, relevant chapters.

A.A. Boahen, ed., *Cambridge History of Latin America*, 10 Vol. VII, 1985, relevant sections only.

Michael Crowder, ed., *Cambridge History of Africa*, Vol. VIII, 1984

Basil Davidson, *Africa in Modern History* (1978)

E. Flint (ed.), *Cambridge History of Africa*, Vol. V, 1976, relevant sections only.

Charles Gibson, *The Aztecs under Spanish Rule*, 1964.

Andre Gunder Frank, *Capitalism and Underdevelopment in Latin America*, 1969.

A.G. Hopkins, *An Economic History of West Africa*.

A. Mazrui (ed.), *UNESCO General History of Africa*, Vol. VIII, 1993, relevant sections only.

Rudolfo Stavenhagen, *Agrarian Problems and Peasant Movements in Latin America*, 1970.

Bob Sutcliffe and Roger Owen, eds., *Studies in the Theory of Imperialism*, 1972.

Rene Tana and Nicolas Spadacini, ed., *Amerindian Images and the Legacy of Columbus* (1992).

A.J. Temu and B. Swai, eds., *Historians and Africanist History: A Critique*, 1981.

Jan Vansina, *Paths in the Rainforest – Toward a History of Political Tradition in Equatorial Africa*, 1990.

Nathan Wachtel, *The Vision of the Vanquished: The Spanish Conquest of Peru through Indian Eyes*, 1977.

John Womack, *Zapata and the Mexican Revolution*, 1972.

DOMAIN ELECTIVES

CONSTITUTIONAL HISTORY

Course Code: BHH 105

Credits: 03

MODULE I: Emergence of East India Company: Colonialism and its nature in India; Administration of Justice in Presidency Towns (Settlements: Surat, Madras, Bombay and Calcutta) (1639 to 1726); Mayor's Court under charter 1726 and 1753; Regulating Act, 1773; Pitts India Act, 1784;

MODULE II: Warren Hastings: Judicial Plans of 1772, 1774 and 1780; Lord Cornwallis: Judicial Plans of 1787, 1790 and 1793; Lord William Bentinck (With special focus on Appraisal of Criminal law).

MODULE III: Codification of Laws: Charter of 1833, The First Law Commission, the Charter of 1853, The Second Law Commission; Establishment of High Courts, 1861; Privy Council: Appeals and working, Appraisal of Privy Council; Federal Court: Under the Government of India Act 1935.

MODULE IV: The Indian Councils Act, 1861; The Indian Councils Act, 1892; The Indian Councils Act, 1909; The Government of India Act 1919; The Government of India Act, 1935, The Constituent assembly, framing of the constitution

Suggested Readings

- M.P. Jain – Outlines of Indian Legal & Constitutional History
- M.P. Singh – Outlines of Indian Legal & Constitutional History
- N.V.Paranjape – Indian Legal & Constitutional History
- V.D. Kulshreshtha – Landmarks of Indian Legal and Constitutional History

HISTORY OF INDIA-II

Course Code: BHH 201

Credit 03

MODULE I. Economy and Society (circa 300 BCE to circa CE 300):

- [a] Expansion of agrarian economy: production relations.
- [b] Urban growth: north India, central India and the Deccan; craft production: trade and trade routes; coinage.
- [c] Social stratification: class, *varna*, *jati*, untouchability; gender; marriage and property relations.

MODULE II: Changing political formations (circa 300 BCE to circa CE 300):

- [a] The Mauryan Empire
- [b] Post-Mauryan Polities with special reference to the Kushanas and the Satavahanas; Gana-Sanghas.

MODULE III: Towards early medieval India [circa CE fourth century to CE 750]:

- [a] Agrarian expansion: land grants, changing production relations; graded land rights and peasantry.
- [b] The problem of urban decline: patterns of trade, currency, and urban settlements.
- [c] *Varna*, proliferation of *jatis*: changing norms of marriage and property.
- [d] The nature of polities: the Gupta empire and its contemporaries: post-Gupta polities – Pallavas, Chalukyas, and Vardhanas.

MODULE IV: Religion, philosophy and society (circa 300 BCE- CE 750):

- [a] Consolidation of the brahmanical tradition: *dharmā*, *Varnashram*, *purusharthas*, *samskaras*.
- [b] Theistic cults (from circa second century BC): Mahayana; the Puranic tradition.
- [c] The beginnings of Tantricism

MODULE V: Cultural developments (circa 300 BCE – CE 750):

- [a] A brief survey of Sanskrit, Pali Prakrit and Tamil literature. Scientific and technical treatises.
- [b] Art and architecture – forms and patronage; Mauryan, post-Mauryan, Gupta, post-Gupta

ESSENTIAL READINGS

- B. D. Chattopadhyaya, *The Making of Early Medieval India*, 1994.
- D. P. Chattopadhyaya, *History of Science and Technology in Ancient India*, 1986.
- D. D. Kosambi, *An Introduction to the Study of Indian History*, 1975.
- S. K. Maity, *Economic Life in Northern India in the Gupta Period*, 1970.
- B. P. Sahu (ed), *Land System and Rural Society in Early India*, 1997.
- K. A. N. Sastri, *A History of South India*.
- R. S. Sharma, *Indian Feudalism*, 1980.
- Romila Thapar, *Asoka and the Decline of the Mauryas*, 1997.
- Susan Huntington, *The Art of Ancient India: Buddhist, Hindu, Jain*, New York, 1985.

SUGGESTED READINGS

- N. N. Bhattacharya, *Ancient Indian Rituals and Their Social Contents*, 2nd ed. , 1996.
- J. C. Harle, *The Art and Architecture of the Indian Subcontinent*, 1987.
- P. L. Gupta, *Coins*, 4th ed., 1996.
- Kesavan Veluthat, *The Early Medieval in South India*, New Delhi, 2009 H. P. Ray, *Winds of Change*, 1994.
- Romila Thapar, *Early India: From the Origins to 1300*, 2002.

SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD

Course Code: BHH 202

Credit 03

MODULE I: Roman Republic, Principate and Empire—slave society in ancient Rome; agrarian economy, urbanisation, trade.

MODULE II: Religion and culture in ancient Rome.

MODULE III: Crises of the Roman Empire.

MODULE IV: Economic developments in Europe from the 7th to the 14th centuries; organisation of production, towns and trade, technological developments. Crisis of feudalism.

MODULE V: Religion and culture in medieval Europe.

MODULE VI: Societies in Central Islamic Lands:

- [a] The tribal background, *ummah*, Caliphal state; rise of Sultanates
- [b] Religious developments: the origins of *shariah*, *Mihna*, Sufism
- [c] Urbanisation and trade

ESSENTIAL READINGS

Perry Anderson, *Passages from Antiquity to Feudalism*.

Marc Bloch, *Feudal Society*, 2 Vols.

Cambridge History of Islam, 2 Vols.

Georges Duby, *The Early Growth of the European Economy*.

Fontana, *Economic History of Europe*, Vol. I (relevant chapters).

P. K. Hitti, *History of the Arabs*.

P. Garnsey and Saller, *The Roman Empire*.

SUGGESTED READINGS

S. Ameer Ali, *The Spirit of Islam*.

J. Barraclough, *The Medieval Papacy*.

Encyclopaedia of Islam, 1st ed., 4 vols.

M. G. S. Hodgson, *The Venture of Islam*.

HISTORY OF CONTEMPORARY INDIA

Course Code: BHH 203

Credit Units: 03

MODULE I: Legacy of freedom struggle- Socio-Cultural values of Non- Violence, National integration, Social Equality, Women participation. Problems and process of integration of Princely States into Indian Dominion (1947-1949) and their re-organization in 1956, Problems of displaced persons and rehabilitation Process. Framing of Indian Constitution – Main features and major amendments

MODULE II: Agrarian reforms and Bhudan Movement, Planned economy. Industrialization- Policy, Programme and Progress. Mixed economy, Green revolution, Nationalisation of Banks and abolition of Privy Purses, Liberalization.

MODULE III: Major Political parties and their role in democracy, From one party dominance to Coalition. Elements of foreign policy: relations with neighbors, Non-Alignment and SAARC

MODULE IV: Changing social structure: Challenges and problems- population growth, unemployment, poverty, communalism. Social movements-woman, dalits and other Backward Classes. Role of middle class. Progress and achievements in Science and technology, Changing trends in dance, music painting, Literature and Mass Media.

Books Recommended:

1. Guha, Ramchandra: India after Gandhi
2. Verma, Pawan: The Great Indian Middle Class (also in Hindi)
3. Khilnani, Sunil: The Idea of India (also in Hindi)
4. Sen, Amartya: Class in India
5. Dixit, J.N.: Indian Foreign Policy

SOCIAL AND POLITICAL HISTORY OF RAJASTHAN

Course Code: BHH 204

Credit-03

MODULE I: Main sources of Social and Economic History of Rajasthan; Main Social Institutions: Tribes, Clan and Caste, Family organization; Main Samskaras, Marriage, Slavery and Education; Social customs and Rituals their ramification; Purdah; Removal of Untouchability. Cultures of Ahar and Kalibanga, Origin of Rajputs, Rise and Expansion of Guhil, Gurjar Pratihars and Chahmans.

MODULE II: Village society and Stratification; Character of Feudalism, Forced Labour, social discrimination; Panchayats; Fairs and Festivals and their contribution to society. Rajput resistance to Muslim invasion, Mewar under Rana Kumbha and Rana Sanga, Rana Pratap's struggle for self-rule, Contribution of Sawai Jai Singh

MODULE III: Temple grants; Socio-Religious Movements with reference to Sufism, Bishnois (Jambhoji), Dadupanth, Ramsnehis, Jasnathi, NathCult, Western Cultural and Educational Impact; Social Work of Christian Missionaries. Arya Samaj, Bhil Reform movement; Caste Reform Sabhas with special reference to Walterkrit Rajputana Hitkarini Sabha; Proclamation and legislation for reforms: Modernization.

MODULE IV: Nature and Structure of Economy during the period of Study Rural and Urban. Nature of Land Grants; Agrarian and Non-agrarian production; Artisan class; Trade and Trade routes; Markets and Indigenous Banking; Taxation system. Famines, Urbanization and Main urban centers; Growth of Railways and Its Impact.

Recommended Books:

1. N.S. Bhati (Ed.): Sources of Social and Economic History of Rajasthan
2. G.N.Sharma: Social Life in Medieval Rajasthan (1500-1800 AD),
3. G.N.Sharma: A Bibliography of Medieval Rajasthan (Social and Cultural),
4. Dasrath Sharma: Rajasthan Through the Ages: Vols I Rajasthan State Archives, Bikaner.
5. G.N.Sharma: Rajasthan Through the Ages : Vols II Rajasthan State Archives, Bikaner
6. B.L. Bhadani: Peasants, Artisans and Entrepreneurs - Economy of Marwar in the Seventeenth Century,
7. R.S. Darda: From Feudalism to Democracy
8. Dilbagh Singh: The State, Landlords and the Peasants, Rajasthan in the 18th Century, Manohar,
9. Dr.Kamla Malu: Famines in Rajasthan K.S.Saxena : Political Movements and Awakening in Rajasthan
10. Rima Hooja: A History of Rajasthan

Domain Elective

CIVIL SERVICES IN INDIA - HISTORY AND SCOPE

Course Code: BHH 205

Credit-03

MODULE I: Definition, Nature and Scope of Bureaucracy – Bureaucratic developments in England & France. English East India Company - Diwani Rights and Recruitment of East India company servants - Writers- Factors, etc. (1765-1786)

MODULE II: Cornwallis and Lord Wellesly's System of Administration - Fort William College (Calcutta), Haileybury College (England) – patronage of Civil Servants - 1786-1813- Covenanted and Un-covenanted Civil Services.

MODULE III: Rationalisation of the Civil Services -1858-1919 – Statutory Civil Service - Provincialisation of Civil Service – Indianisation of Civil Services, Merits and Demerits – Social, Educational background of the Candidates & Training Methods. Indian Civil service 1919 to 1947.

MODULE IV: All India Services after Independence - Recommendations of Kothari (1976) and Sathish Chandra (1989) Commissions – Functions of Union Public Service Commission (UPSC), Staff Selection Commission (SSC), State/ Provincial Public service Commission (PPSC)

MODULE V: Scope for youth in various services – Ethics in Civil service – Red-tapism and Nepotism in All India Services. Popular civil servants –K.P.S. Menon, T.N.Seshan, Shantha Sheela Nair, J.N. Dixit, Kiran Bedi, Dr. J. Radhakrishnan

Readings List:

Misra,B.B: The Bureaucracy in India , An Historical Analysis of Development up to 1947.

Misra,B.B: Government and Bureaucracy in India: 1947-1976.

Prasad,B: The Indian Administrative Service.

Sikka, R.P.: The Civil service in India.

Dharma Vira: Memoirs of a Civil Servant.

Mutalib,M.A : The Union Public Service Commission.

Bharghava.G.S.: A study of Political Corruption in India.

Roy.N.C.: The Civil Services in India.

HISTORY OF TEMPLE ARCHITECTURE

Course Code: BHH 206

Credit-03

MODULE I: Origin of Temple: Nagara, Dravida and Vesara Types and their textual bases;

MODULE II: Gupta Temple Architecture (evolution and features); Orissa (Bhubaneshwar and Konark); Central India, Gujarat and Rajasthan (Pratihara, Chandella, Paramara and Solanki–Modhera and Dilwara);

MODULE III: Deccan (Chalukya – Badami, Upper Shivalaya, Aihole, Pattadakal – Papanatha, Virupaksha);

MODULE IV: Hoyasala – Halebid, Belur; Rashtrakuta – Kailash temple at Ellora; South (Pallava Rock-cut and Structural architecture; Chola–Tanjore, Gangaikondacholapuram, Darasuram, Chidambaram); Kashmir (Martand Temple).

Reading List

Brown, Percy: Indian Architecture (Buddhist and Hindu)

Saraswati, S. K.: History and Culture of the Indian people, Bharatiya Vidya Bhawan, (Volume 2 and 3 - Relevant chapters)

Fergusson, J.: History of Indian and Eastern Architecture (Revised by Burgess and Spiers, 2 Volumes)

Agrawala, V. S.: Evolution of Hindu Temple and Other Essays

Balasubramaniam, S. R.: Four Chola Temples.

Krishna Deva: Temples of North India.

Srinivasan, K.R.: Temples of South India

Chandra, Pramod (ed.): Studies in Temple Architecture

Kramrisch, Stella: Hindu Temple (Volumes I and II)

Meister, M. and Dhaky, M. A.: Encyclopaedia of Indian Architecture -3 Volumes

Singh, Harihar: Jain Temples of Western India

Agrawala, P. K.: Gupta Temple Architecture

Grover, Satish: The Architecture of India (Buddhist and Hindu)

Michell, George: Monuments of India (Buddhist, Jain and Hindu)

Christopher, Todgell: The History of Architecture in India

Kak, R. C.: Ancient Monuments of Kashmir

Trivedi, R. D.: Gurjara- Pratihara Temples of Central India

Tripathi, L. K.: The Temples of Badoli

Kalia, Asha: Art of Osian Temples

Lobo, Wibke: Sun Temple of Modhera

Journals: Relevant Nos. of Lalit Kala, J.I.S.O.A., Marg and Chhavi

HISTORY OF INDIA-III (C. 750-1206)

Course Code: BHH 301

Credit: 03

MODULE I - Studying Early Medieval India:

Historical geography

Sources: texts, epigraphic and numismatic data

Debates on Indian feudalism, rise of the Rajputs and the nature of the state

MODULE II - Political Structures:

- (a) Evolution of political structures: Rashtrakutas, Palas, Pratiharas, Rajputs and Cholas
- (b) Legitimization of kingship; brahmanas and temples; royal genealogies and rituals
- (c) Arab conquest of Sindh: nature and impact of the new set-up; Ismaili *dawah*
- (d) Causes and consequences of early Turkish invasions: Mahmud of Ghazna; Shahab-ud-Din of Ghur

MODULE III - Agrarian Structure and Social Change:

- (a) Agricultural expansion; crops
- (b) Landlords and peasants
- (c) Proliferation of castes; status of untouchables
- (d) Tribes as peasants and their place in the *varna* order

MODULE IV - Trade and Commerce:

- (a) Inter-regional trade
- (b) Maritime trade
- (c) Forms of exchange
- (d) Process of urbanization
- (e) Merchant guilds of South India

MODULE V - Religious and Cultural Developments:

- (a) Bhakti, Tantrism, Puranic traditions; Buddhism and Jainism; Popular religious cults
- (b) Islamic intellectual traditions: Al-Biruni; Al-Hujwiri
- (c) Regional languages and literature
- (d) Art and architecture: Evolution of regional styles

ESSENTIAL READINGS

R.S. Sharma, *Indian Feudalism (circa 300 – 1200)*.

B.D. Chattopadhyaya, *The Making of Early Medieval India*.

R.S. Sharma and K.M. Shrimali, eds, *Comprehensive History of India, Vol. IV (A & B)*. Mohammad

Habib and K.A. Nizami, eds, *Comprehensive History of India, Vol. V, The Delhi Sultanat*.

Hermann Kulke, ed., *The State in India (AD 1000 – AD 1700)*.

N. Karashima, *South Indian History and Society (Studies from Inscriptions, AD 850 – 1800)*.

Derryl N. Maclean, *Religion and Society in Arab Sindh*.

Irfan Habib, *Medieval India: The Study of a Civilization*.

SUGGESTED READINGS

Richard Davis, *Lives of Indian Images*.

Romila Thapar, *Somanatha: The Many Voices of a History*.

John S. Deyell, *Living Without Silver: The Monetary History of Early Medieval North India*.

Vijaya Ramaswamy, *Walking Naked: Women, Society, Spirituality in South India*.

Burton Stein, *Peasant State and Society in Medieval South India*.

R. Champakalakshmi, *Trade, Ideology and Urbanization: South India, 300 BC to 1300 AD*.

Al. Beruni's *India*, NBT edition.

Ali Hujwiri, *Kashful Mahjoob*, tr. R.Nicholson.

S C Mishra, *Rise of Muslim Communities in Gujrat*.

J. Schwartzberg, *Historical Atlas of South Asia*.

HISTORY OF SOUTHEAST ASIA – THE 19th CENTURY

Course Code: BHH 302

Credit: 03

MODULE I: Pre-Colonial Structures of Power and authority c. 1800.

MODULE II: II. Economy and Society in early 19th century: Patterns of Production in agriculture and the crafts. Organization of trade and banking. Cultural expressions: Folk and Classical. Islam and popular culture.

MODULE III: Colonization and Colonial Transformations: Processes of colonial control and the Informal Empire in Thailand. Peasant society and agrarian transformations, plantations, forests, mining.

MODULE IV: Urbanization: Colonial cities in Plural Societies. Culture: Colonial Discourses and the Creation of National Culture. Oral traditions, literacy and the case of Malay Hikayats. Creation of Perfect Natives. Education.

ESSENTIAL READING:

B. Anderson: Imagined Communities.

H. Benda: The Crescent and the Rising Sun. Furnivall: Colonialism and the Plural Society.

G. Hart, ed., Agrarian Transformations: Local Processes and the State in South-east Asia.

J. Kemp, ed., Peasants and Cities, Cities and Peasants: Rethinking Southeast. Asian Models.

Milton Osborne, South East Asia: An Introductory History
Nicholas Tarling, ed., Cambridge History of South-east Asia, Vol.II

SUGGESTED READINGS:

B. Anderson: Mythology and the Tolerance of the Javanese.

C. Van Dijk, Trousers, Sarongs and Jubbahs.

C. Dobbin, Islamic Revivalism in a Changing Peasant Economy (1784-1847).

Charles F. Keys, The Golden Peninsula.

Daniel S. Lev and Ruth T. McVey, eds., Making Indonesia – Essays on Modern Indonesia.

Victor Purcell, The Chinese in Southeast Asia.

Tongchai Winichakul; Siam Mapped

HISTORY OF ENGLAND –1900 TO 2000 A.D.

Course Code: BHH 303

Credit: 03

MODULE I: Events leading to World War I – Lloyd George, Britain and the First World War, Alliances and Treaties, New Weapons, Causes for the World War, Versailles Peace Treaty and After. England and World War II – Role of National Governments, Post War England – Clement Attlee – Churchill, Britain and the Suez Crisis – Britain and the EEC

MODULE II: Britain as an imperialist power – Australia, New Zealand, Canada and Africa – Founding of the colonies, Early History of Brief, Colonisation, Self Government and Dominion Status – Relations with Britain – the Commonwealth.

MODULE III: Britain and Ireland – Reasons for Conflict, Ulster Unionists, Formation of Northern and Southern Ireland – IRA

MODULE IV: Important Prime Ministers: Harold Mac Millan, Harold Wilson, Edward Heath, Margret Thatcher, Tony Blair.

MODULE V: Economy of Britain in the twentieth century, Unemployment, Trade Unions, Labour party, Public Health in Britain – Town planning – Growth of Science and technology.

Readings List:

C.P. Hill and J. C. Wright: British History 1815-1918

George W. South Gate: The Hanoverian Period and After

George W South Gate: English Economic History

Carter E.H and R.A.F. Mears: History of Britain

Antony C Wood: Great Britain 1900-1965

H.L. Peacock: A History of Modern Britain

RISE OF MODERN WEST-I

Course Code BHH 304

Credit 03

MODULE I: Transition from feudalism to capitalism: problems and theories.

MODULE II: Early colonial expansion motives, voyages and explorations; the conquests of the Americas: beginning of the era of colonization; mining and plantation; the African slaves.

MODULE III: Renaissance: its social roots, city states of Italy; spread of humanism in Europe; Art.

MODULE IV: Origins, course and results of the European Reformation in the 16th century.

MODULE V: Economic developments of the sixteenth century: Shift of economic balance from the Mediterranean to the Atlantic; Commercial Revolution; Influx of American silver and the Price Revolution.

MODULE VI: Emergence of European state system: Spain; France; England; Russia.

ESSENTIAL READINGS

T.S. Aston and C. H. E. Philpin (eds.), *The Brenner Debate* H. Butterfield, *The Origins of Modern Science*.

Carlo M. Cipolla, *Fontana Economic History of Europe*, Vols. II and III.

Carlo M. Cipolla, *Before the Industrial Revolution, European Society and Economy*. 1000 – 1700. 3rd ed. (1993)

Economy. 1000-1700. 3rd ed. (1993).

D. C. Coleman (ed.), *Revisions in Mercantilism*.

Ralph Davis, *The Rise of the Atlantic Economics*.

Maurice Dobb, *Studies in the Development of Capitalism*.

J. R. Hale, *Renaissance Europe*.

R. Hall, *From Galileo to Newton*.

Christopher Hill, *A Century of Revolutions*.

Rodney Hilton, *Transition from Feudalism to Capitalism*.

H. G. Koenigsberger and G. L. Mosse, *Europe in the Sixteenth Century*.

Stephen J. Lee, *Aspects of European History*, 1494 – 1789.

G. Parker, *Europe in Crisis*. 1598- 1648.

G. Parker and L. M. Smith, *General Crisis of the Seventeenth Century*.

J. H. Parry, *The Age of Reconnaissance*.

Meenaxi Phukan, *Rise of the Modern West: Social and Economic History of Early Modern Europe*.

V. Poliselky, *War and Society in Europe, 1618 – 48*.

Theodore K. Rabb, *The Struggle for Stability in Early Modern Europe*.

V. Scammell, *The First Imperial “Age: European Overseas Expansion, 1400 – 1715*.

Jan de Vries, *Economy of Europe in an Age of Crisis 1600 – 1750*.

SUGGESTED READINGS

M. S. Anderson, *Europe in the Eighteenth Century*.

Perry Anderson, *The Lineages of the Absolutist State*.

Stuart Andrews, *Eighteenth Century Europe*.

B. H. Slicher von Bath, *The Agrarian History of Western Europe. AD. 500 – 1850*.

The Cambridge Economic History of Europe. Vol. I – VI.

James B. Collins, *The State in Early Modern France: New Approaches to European History*.

G. R. Elton, *Reformation Europe, 1517 – 1559*.

M. P. Gilmore, *The World of Humanism. 1453 – 1517*.

Peter Kriedte, *Peasants, Landlords and Merchant Capitalists*.

J. Lynch, *Spain under the Hapsburgs*.

Peter Mathias, *First Industrial revolution*.

Harry Miskimin, *The Economy of Later Renaissance Europe: 1460 – 1600*.

Charles A. Nauert, *Humanism and the Culture of the Renaissance* (1996).

The New Cambridge Modern History of Europe, Vols. I – VII.

L. W. Owie, *Seventeenth Century Europe*.

D. H. Pennington, *Seventeenth Century Europe*.

F. Rice, *The Foundations of Early Modern Europe*.

HISTORY OF INDIA- IV (C. 1206-1550)

Course Code: BHH 401

Credit 03

MODULE I: Interpreting the Delhi Sultanate:

Survey of sources: Persian *tarikh* tradition; vernacular histories; epigraphy

MODULE II: Sultanate Political Structures:

- (a) Foundation, expansion and consolidation of the Sultanate of Delhi; The Khaljis and the Tughluqs; Mongol threat and Timur's invasion; The Lodis; Conquest of Bahlul and Sikandar; Ibrahim Lodi and the battle of Panipat
- (b) Theories of kingship; ruling elites; Sufis, *ulama* and the political authority; imperial monuments and coinage
- (c) Emergence of provincial dynasties: Bahamanis, Vijayanagar, Gujarat, Malwa, Jaunpur and Bengal
- (d) Consolidation of regional identities; regional art, architecture and literature

MODULE III: Society and Economy:

- (a) *Iqta* and the revenue-free grants
- (b) Agricultural production; technology
- (c) Changes in rural society; revenue systems
- (d) Monetisation; market regulations; growth of urban centres; trade and commerce; Indian Ocean trade

MODULE IV: Religion, Society and Culture:

- (a) Sufi *silsilas*: Chishtis and Suhrawardis; doctrines and practices; social roles
- (b) Bhakti movements and monotheistic traditions in South and North India; Women *Bhaktas*; Nathpanthis; Kabir, Nanak and the Sant tradition
- (c) Sufi literature: *malfūzāt*; *premakhayāns*

ESSENTIAL READINGS

Mohammad Habib and K.A. Nizami, eds, *Comprehensive History of India, Vol. V, The Delhi Sultanat.*

Satish Chandra, *Medieval India I.*

Peter Jackson, *The Delhi Sultanate.*

Catherine Asher and Cynthia Talbot, *India Before Europe.*

Tapán Raychaudhuri and Irfan Habib, eds, *Cambridge Economic History of India, Vol. I.*

K.A. Nizami, *Religion and Politics in the Thirteenth Century.*

W.H. McLeod, Karine Schomer, et al, eds, *The Sants.*

S.A.A. Rizvi, *A History of Sufism in India, Vol. I.*

Mohibul Hasan, *Historians of Medieval India.*

SUGGESTED READINGS

Cynthia Talbot, *Precolonial India in Practice*.

Simon Digby, *War Horses and Elephants in the Delhi Sultanate*.

I.H. Siddiqui, *Afghan Despotism*.

Burton Stein, *New Cambridge History of India: Vijayanagara*.

Richard M. Eaton, ed., *India's Islamic Traditions*.

Vijaya Ramaswamy, *Walking Naked: Women, Society, Spirituality in South India*.

Sheldon Pollock, *Languages of the Gods in the World of Men*.

Pushpa Prasad, *Sanskrit Inscriptions of the Delhi Sultanate*.

Andre Wink, *Al-Hind, Vols. I-III*.

RISE OF MODERN WEST-II

Course Code: BHH 402

Credit -3

MODULE I: 17th century European crisis: economic, social and political dimensions.

MODULE II: The English Revolution: major issues; political and intellectual currents.

MODULE III: Rise of modern science in relation to European society from the Renaissance to the 17th century.

MODULE IV: Mercantilism and European economics; 17th and 18th centuries.

MODULE V: European politics in the 18th century – parliamentary monarchy; patterns of Absolutism in Europe.

MODULE VI: Political and economic issues in the American Revolution.

MODULE VII: Preludes to the Industrial Revolution.

ESSENTIAL READINGS

T.S. Aston and C.H.E. Philpin (eds.), *The Brenner Debate*.

H. Butterfield, *The Origins of Modern Science*.

Carlo M. Cipolla, *Fontana Economic History of Europe*, Vols. II and III.

Carlo M. Cipolla, *Before the Industrial Revolution, European Society and Economy, 1000 – 1700*. 3rd ed. (1993).

D.C. Coleman (ed.), *Revisions in Mercantilism*.

Ralph Davis, *The Rise of the Atlantic Economics*.

Maurice Dobb, *Studies in the Development of Capitalism*.

J.R. Hale, *Renaissance Europe*.

R. Hall, *From Galileo to Newton*.

Christopher Hill, *A Century of Revolutions*.

Rodney Hilton, *Transition from Feudalism to Capitalism*.

H.G. Koenigsberger and G.L. Mosse, *Europe in the Sixteenth Century*.

Stephen J. Lee, *Aspects of European History, 1494 – 1789*.

G. Parker, *Europe in Crisis, 1598 – 1648*.

G. Parker and L.M. Smith, *General Crisis of the Seventeenth Century*.

J.H. Parry, *The Age of Reconnaissance*.

Meenaxi Phukan, *Rise of the Modern West: Social and Economic History of Early Modern Europe*.

V. Poliselky, *War and Society in Europe. 1618 – 48*.

Theodore K. Rabb, *The Struggle for Stability in Early Modern Europe*.

V. Scammell, *The First Imperial Age: European Overseas Expansion, 1400 – 1715*.

Jan de Vries, *Economy of Europe in an Age of Crisis 1600 – 1750*.

SUGGESTED READINGS

M. S. Anderson, *Europe in the Eighteenth Century*.

Perry Anderson, *The Lineages of the Absolutist State*.

Stuart Andrews, *Eighteenth Century Europe*.

B. H. Slicher von Bath, *The Agrarian History of Western Europe. AD. 500 – 1850*.

The Cambridge Economic History of Europe. Vol. I – VI.

James B. Collins, *The State in Early Modern France, New Approaches to European History*.

G. R. Elton, *Reformation Europe, 1517 – 1559*.

M. P. Gilmore, *The World of Humanism. 1453 – 1517*.

Peter Kriedte, *Peasants, Landlords and Merchant Capitalists*.

J. Lynch, *Spain under the Hapsburgs*.

Peter Mathias, *First Industrial revolution*.

Harry Miskimin, *The Economy of Later Renaissance Europe: 1460 – 1600*.

Charles A. Nauert, *Humanism and the Culture of the Renaissance* (1996).

The New Cambridge Modern History of Europe, Vols. I – VII.

L. W. Owie, *Seventeenth Century Europe*.

D. H. Pennington, *Seventeenth Century Europe*.

F. Rice, *The Foundations of Early Modern Europe*

HISTORY OF FASCISM

Course Code: BHH 403

Credit: 03

MODULE I: Growth of Fascist and Nazi movements in post-war Europe; social bases and political formations.

MODULE II: Ideological characteristics: myths, race and biology.

MODULE III: Experience of Fascism and Nazism; war and expansion; everyday life; resistance; Auschwitz.

MODULE IV: Japanese Fascism; Ideological roots; the New South East Asian Order; imperialist expansion; the Second World War.

Select Readings:

Roger Eatwell, *Fascism: A History.*, Random House, 2003

F. Neumann, *Behemoth: The Structure and Practice of National Socialism.*

Ivan R. Dee, 2009 Daniel Guerin, *Big Business and Fascism*, Parthfinder, 2003 Arthur Schweitzer, *Big Business in the Third Reich*, Indiana University Press, 1964 F. Knight, *The French Resistance, 1940-44.*

Max Gallo, *Spain Under Franco: A History.*, Dutton, 1964 Primo Levi, *If this is a Man*, Orion Press, 1954

G. Brenner, *The Spanish Labyrinth*, CUP, 1990 Roland Sarti, *Fascism and the Industrial Leadership in Italy, 1919-1940*, University of California Press, 1971 R. J. Bosworth, *Mussolini's Italy*, Penguin 2006.

Marius Jansen, ed. & Peter Duus, ed.

The Cambridge History of Japan, Volumes 5 and 6.

Cambridge: Cambridge University Press, 1988 and 1989 Prasanjit Duara *Sovereignty and Authenticity: Manchukuo and the East Asian Modern*, Rowman & Littlefield; 2004

HISTORY OF SOUTHEAST ASIA- 20TH CENTURY

Course Code BHH 404

CREDIT 3

MODULE I: Migration: Indian and Chinese Labour and Capital

MODULE II: Movements of Resistance and the making of new identities

[a] Peasant resistance.

[b] Radicalism and the Origins of the Vietnamese Revolution, 1920-1946.

[c] Indonesian Revolution, 1945-1949.

MODULE III: Emergence of Modern Nations and States

[a] The Union of Burma (Myanmar), 1948-1962.

[b] Indonesia, the Sukarno Era, 1949-1965.

[c] Cambodia under Norodom Sihanouk, 1955-1970.

ESSENTIAL READING

B. Anderson, *Imagined Communities*.

H. Benda, *The Crescent and the Rising Sun*.

Furnivall, *Colonialism and the Plural Society*.

G. Hart, ed., *Agrarian Transformations: Local Processes and the State in Southeast Asia*.

J. Kemp ed., *Peasants and Cities, Cities and Peasants: Rethinking South-east Asian Models*.

Milton Osborne, *South east Asia: An Introductory History*. Nicholas Tarling, ed., *Cambridge History of South-east Asia*, Vol. II

SUGGESTED READINGS

B. Anderson, *Mythology and the Tolerance of the Javanese*.

C. van Dijk, *Trousers, Sarongs and Jubbahs*.

C. Dobbin, *Islamic Revivalism in a Changing Peasant Economy, 1784-1847*.

Charles F. Keys: *The Golden Peninsula*.

Daniel S. Lev and Ruth T. McVey eds., *Making Indonesia – Essays on Modern Indonesia*.

Victor Purcell, *The Chinese in Southeast Asia*.

Tongchai Winichakul; *Siam Mapped*.



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Internship	BAV606	0:0:0	8	6

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Comprehend and analyses critically the facts related with the significance, functioning and trends of graphics and animated sequences from the development of the original concept through design to final film or video production.
CLO 2	Communicate ideas, believable action, and emotion effectively by employing principles of graphics and animation and performance in all aspects of drawing.
CLO 3	Integrate the concepts, principles, and theories involved in the physics of animation in all aspects of drawing.
CLO 4	Create 2D and 3D characters and environments that reflect the integration of graphic clarity, design principles, performance principles, and theoretical constructs.
CLO 5	Design graphics and animation that incorporate principles of composition, perspective, and using a variety of media
CLO 6	Create a graphic and animated film incorporating a range of artistic styles and techniques, reflecting the principle that form follows function.

B. SYLLABUS

Students preparing to present the internship report are required to adhere to the following guidelines:

Format of the file and its content:

- Cover page
- Declaration from the student

- Acknowledgement
- Certificate from the organization
- Introduction of organisation
- Index

Chapter 1: Introduction to the Organization

- History, Structure and Establishment
- Brief Profile of Owners and Key Personnel
- Area of Operations
- Work Culture
- Key Employee Profile
- Major projects and Clients (in case of Advertising, Graphics Design, 3d Modelling VFX Company, Event Management Company, Photography)
- SWOT Analysis of the Organization
- Future Projects/Plans

Chapter 2: Internship Work

- Initial days in the organization
- My Industry Mentor
- Major Assignments allotted to me
- Accomplishments

Chapter 3: Internship Experience

- Challenges and Problems
- Learning Outcome
- Overall Experience

Chapter 4: Conclusion Appendix (Copies of the work done by the student during internship)

Format of the Report

1. File should be hard bind in black color with text printed in golden color
2. Text would be printed on one side of the page. Main title should be printed on the separate sheet.

3. Font: Times New Roman

4. Font Size: 14 (Heading) 12 (Body)

5. Line Spacing: 1.5

6. Margin: 1 Inch (Top and bottom) 1.5 Inch (Left and right)

7. Page number: Right corner on the top of the page

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	-	-	50	50	-	-

SUGGESTED READINGS:

HISTORY OF INDIA-V (C. 1550-1605)

Course Code BHH 501

Credit 03

MODULE I: Sources and Historiography:

- (a) Persian literary culture; translations; Vernacular literary traditions
- (b) Modern Interpretations

MODULE II: Establishment of Mughal rule:

- (a) India on the eve of Babur's invasion
- (b) Fire arms, military technology and warfare
- (c) Humayun's struggle for empire
- (d) Sher Shah and his administrative and revenue reforms

MODULE III: Consolidation of Mughal rule under Akbar:

- (a) Campaigns and conquests: tactics and technology
- (b) Evolution of administrative institutions: *zabt, mansab, jagir, madad-i-ma'ash*
- (c) Revolts and resistance

MODULE IV: Expansion and Integration:

- (a) Incorporation of Rajputs and other indigenous groups in Mughal nobility
- (b) North-West frontier, Gujarat and the Deccan
- (c) Conquest of Bengal

MODULE V: Rural Society and Economy:

- (a) Land rights and revenue system; Zamindars and peasants; rural tensions
- (b) Extension of agriculture; agricultural production; crop patterns
- (c) Trade routes and patterns of internal commerce; overseas trade; rise of Surat

MODULE VI: Political and religious ideals:

- (a) Inclusive political ideas: theory and practice
- (b) Religious tolerance and *sulh-i-kul*; Sufi mystical and intellectual interventions
- (c) Pressure from the *ulama*

ESSENTIAL READINGS

S. Nurul Hasan, *Religion, State, and Society in Medieval India*.

Muzaffar Alam and Sanjay Subrahmanyam, eds, *The Mughal State, 1526 – 1750*.

J.F. Richards, *The Mughal Empire*.

Catherine Asher and Cynthia Talbot, *India Before Europe*.

Irfan Habib, *Agrarian System of Mughal India, 1526 – 1707*.

S.A.A. Rizvi, *Religious and Intellectual History of the Muslims in Akbar's Reign*.

Stephen F. Dale, *Garden of the Eight Paradises: Babur and the Culture of Empire*.

R P Tripathi, *The Rise and the Fall of the Mughal Empire*.

SUGGESTED READINGS

Athar Ali, *Mughal India: Studies in Polity, Ideas, Society, and Culture*.

Douglas Streusand, *The Formation of the Mughal Empire*.

Harbans Mukhia, *Historians and Historiography During the Reign of Akbar*.

A.J. Qaiser, *The Indian Response to European Technology and Culture*.

Richard M. Eaton, *The Rise of Islam and the Bengal Frontier*.

Shireen Moosvi, *Economy of the Mughal Empire*.

K.N. Chaudhuri, *Trade and Civilization in the Indian Ocean*.

Iqtidar Alam Khan, *Gunpowder and Fire Arms: Warfare in Medieval India*.

Jos J.S. Gommans and Dirk H.A. Kolff, eds, *Warfare and Weaponry in South Asia*.

Irfan Habib, *An Atlas of the Mughal Empire*.

HISTORY OF INDIA-VI (C. 1750-1857)

Course Code BHH 504

Credit 03

MODULE I: India in the mid – 18th Century; Society, Economy, Polity

MODULE II: Expansion and Consolidation of colonial Power:

- [a] Mercantilism, foreign trade and early forms of exactions from Bengal.
- [b] Dynamics of expansion, with special reference to Bengal, Mysore, Western India, Awadh, Punjab, and Sindh.

MODULE III: Colonial State and Ideology:

- [a] Arms of the colonial state: army, police, law.
- [b] Ideologies of the Raj and racial attitudes.
- [c] Education: indigenous and 'modern'

MODULE IV: Rural Economy and Society:

- [a] Land revenue systems and forest policy.
- [b] Commercialisation and indebtedness.
- [c] Rural society: change and continuity.
- [d] Famines.
- [e] Pastoral economy and shifting cultivation.

MODULE V: Trade and Industry

- [a] De – industrialization
- [b] Trade and fiscal policy
- [c] Drain of Wealth
- [d] Growth of modern industry

MODULE VI: Popular Resistance:

- [a] Santhal uprising (185-7); Indigo rebellion (1860); Pabna agrarian leagues (1873); Deccan riots (1875).
- [b] Uprising of 1857

ESSENTIAL READINGS

C. A. Bayly, *Indian Society and the Making of the British Empire*, New Cambridge History of India.

Bipan Chandra, *Rise and Growth of Economic Nationalism in India*.

Subash Chakravarty, *The Raj Syndrome: A Study in Imperial Perceptions*, 1989. J.S. Grewal, *The Sikhs of the Punjab*, New Cambridge History of India Ranajit Guha, ed., *A Subaltern Studies Reader*.

Dharma Kumar and Tapan Raychaudhuri, eds., *The Cambridge Economic History of India*, Vol. II.

P.J. Marshall, *Bengal: The British Bridgehead*, New Cambridge History of India.

R.C. Majumdar, ed., *History and Culture of Indian People*, Vols. IX and X.

British Paramountcy and Indian Renaissance.

Rajat K. Ray, ed., *Entrepreneurship and Industry in India, 1800-1947*, Oxford In India Readings. Eric Stokes, *English Utilitarians and India*.
Ram Lakhan Shukla, ed., *Adhunik Bharat ka Itihas*.

SUGGESTED READINGS

David Arnold and Ramchandra Guha, eds., *Nature, Culture and Imperialism*.
Amiya Bagchi, *Private Investment in India*.
Bipan Chandra, K.N. Panikkar, Mridula Mukherjee, Sucheta Mahajan and Aditya Mukherjee, *India's Struggles for Independence*. A.R. Desai, *Peasant Struggles in India*.
R.P. Dutt, *India today*.
M.J. Fisher, ed., *Politics of Annexation* (Oxford in India Readings).
Ranjit Guha, *Elementary Aspects of Peasant Insurgency in Colonial India* (1983).
P.C. Joshi, *Rebellion 1857: A Symposium*.
J. Krishnamurti, *Women in Colonial India*.
Dadabhai Naroji, *Poverty and Un-British Rule in India*

MAJOR SOURCES OF INDIAN HISTORY

Course Code BHH 505

Credit 03

Module I: Major sources, their nature and utility. Varieties of archaeological sources, Epigraphy, Numismatics and Monuments. Religious literature

Module II: Secular literature, Banabhatt, Kalhanam Barni and Abul Fazal

Module III: Traveller's accounts, Megasthenes, Hiuen Tsang, Alberuni, Bernier and Tavemier

Module IV: Autobiography as a source of History (Gandhi & Nehru), Newspapers as source of History (A general discussion), Literature as source of History, Bankim & Prem Chand

Examination Scheme:

Components	CT	P	A	EE
Weightage (%)	15	10	5	70

Text & References:

- Majumdar, R.C : The History and culture of the Indian people
- Pathak V S : Historian of Ancient India
- Bernier J B Travels in the Mughal Empire

HISTORY OF NAZISM

Course Code BHH 506

Credit 03

MODULE I: Growth of Nazi movements in post-war Europe; social bases and political formations.

MODULE II: Ideological characteristics: myths, race and biology.

MODULE III: Experience of Nazism; war and expansion; everyday life; resistance.

MODULE IV: Different Explanation of Nazism; development of science and technology under Nazis; Reasons for Nazis success and failure.

Select Readings:

1. Roger Eatwell, *Fascism: A History.*, Random House, 2003
2. F. Neumann, *Behemoth: The Structure and Practice of National Socialism.*
3. Ivan R. Dee, 2009 Daniel Guerin, *Big Business and Fascism*, Parthfider, 2003 Arthur Schweitzer, *Big Business in the Third Reich*, Indiana University Press, 1964 F. Knight, *The French Resistance, 1940-44.*
4. Max Gallo, *Spain Under Franco: A History.*, Dutton, 1964 Primo Levi, *If this is a Man*, Orion Press, 1954
5. G. Brenner, *The Spanish Labyrinth*, CUP, 1990 Roland Sarti, *Fascism and the Industrial Leadership in Italy, 1919-1940*, University of California Press, 1971 R. J. Bosworth, *Mussolini's Italy*, Penguin 2006. Marius Jansen, ed. & Peter Duus, ed.
6. *The Cambridge History of Japan, Volumes 5 and 6.*
7. Cambridge: Cambridge University Press, 1988 and 1989 Prasanjit Duara *Sovereignty and Authenticity: Manchukuo and the East Asian Modern*, Rowman & Littlefield; 2004

HISTORY OF INDIA-VII (C. 1605-1750)

Course Code BHH 601

Credit 03

MODULE I: Sources: Persian and vernacular literary cultures, histories, memoirs and travelogues

MODULE II: Political Culture under Jahangir and Shah Jahan:

- (a) Extension of Mughal rule; changes in *mansab* and *jagir* systems; imperial culture
- (b) Orthodoxy and syncretism – Naqshbandi Sufis, Miyan Mir, Dara Shukoh, Sarmad

MODULE III: Mughal Empire under Aurangzeb:

- (a) State and religion under Aurangzeb; issues in the war of succession; policies regarding religious groups and institutions
- (b) Conquests and limits of expansion
- (c) Beginning of the crisis: contemporary perceptions; agrarian and *jagir* crises; revolts

MODULE IV: Visual Culture: Paintings and Architecture

MODULE V: Patterns of Regional Polities:

- (a) Rajput political culture and state formation
- (b) Deccan kingdoms; emergence of the Marathas; Shivaji; expansion under the Peshwas
- (c) Mughal decline; emergence of 'successor' states
- (d) Interpreting eighteenth century India: recent debates

MODULE VI: Trade and Commerce:

- (a) Crafts and technologies; Monetary system
- (b) Markets; transportation; urban centres
- (c) Indian Ocean trade network

ESSENTIAL READINGS

M. Athar Ali, *The Mughal Nobility under Aurangzeb*.

Muzaffar Alam and Sanjay Subrahmanyam, eds, *The Mughal State, 1526 – 1750*.

J.F. Richards, *The Mughal Empire*.

Satish Chandra, *Essays on Medieval Indian History*.

Irfan Habib, *Agrarian System of Mughal India, 1526 – 1707*.

Ashin Dasgupta, *Indian Merchants and the Decline of Surat, 1700 – 1750*.

Stewart Gordon, *The Marathas 1600 – 1818*.

Ebba Koch, *Mughal Art and Imperial Ideology*.

S.A.A. Rizvi, *Muslim Revivalist Movements in Northern India*.

K. R. Qanungo, *Dara Shikoh*.

SUGGESTED READINGS

S. Nurul Hasan, *Religion, State, and Society in Medieval India*.

S. Arsaratnam, *Maritime India in the Seventeenth Century*.

Muzaffar Alam, *The Crisis of Empire in Mughal North India*.

Catherine Asher, *Architecture of Mughal India*.

Milo Beach, *Mughal and Rajput Paintings*.
Satish Chandra, *Parties and Politics at the Mughal Court*.
Andre Wink, *Land and Sovereignty in India*.
Harbans Mukhia, *The Mughals of India*.
J.F. Richards, *Mughal Administration in Golconda*.
Z.U. Malik, *The Reign of Muhammad Shah*.
Iqbal Husain, *Ruhela Cheiftancies in 18th Century India*.

HISTORY OF INDIA-VIII (C. 1857-1950)

Course Code: BHH 602

Credit Units: 03

MODULE I: Cultures changes and Social and Religious Reform Movements:

- [a] The advent of printing and its implications
- [b] Reform and Revival: Brahma Samaj, Prarthna Samaj, Ramakrishna and Vivekananda, Arya Samaj, Wahabi, Deoband, Aligarh and Singh Sabha movements
- [c] Debates around gender
- [d] Making of religious and linguistic identities
- [e] Caste: sanskritising and anti – Brahminical trends

MODULE II: Nationalism: Trends up to 1919:

- [a] Political ideology and organizations, formation of INC
- [b] Moderates and extremists.
- [c] Swadesh movement
- [d] Revolutionaries

MODULE III: Gandhian nationalism after 1919: Ideas and Movements:

- [a] Mahatma Gandhi: his Perspectives and Methods
 - (i) Impact of the First World War
 - (ii) Rowlatt Satyagraha and Jallianwala Bagh
 - (iii) Non – Cooperative and Civil Disobedience Provincial Autonomy
 - (iv) Quit India and INA
- [b] Left – wing movements
- [c] Princely India: States' people's movements
- [d] Nationalism and Culture: literature and art

MODULE IV: Nationalism and Social Groups: Interfaces:

- [a] Landlords, Professionals and Middle Classes
- [b] Peasants
- [c] Tribals
- [d] Labour
- [e] Dalits
- [f] Women
- [g] Business groups

MODULE V: Communalism: Ideologies and practices – RSS, Hindu Maha Sabha, Muslim League.

MODULE VI: Independence and Partition

- [a] Negotiations for independence, and partition
- [b] Popular movements
- [c] Partition riots

MODULE VII: Emergence of a New State:

- [a] Making of the Constitution
- [b] Integration of princely states
- [c] Land reform and beginnings of planning

ESSENTIAL READINGS

Judith Brown, *Gandhi's rise to Power*, 1915-22.

Paul Brass, *The Politics of India Since Independence*, OUP, 1990.

Bipan Chandra, *Nationalism and Colonialism in Modern India*, 1979.

Bipan Chandra, *Rise and Growth of Economic Nationalism in India*.

Mohandas K. Gandhi, *An Autobiography or The Story of My Experiments with Truth*.

Ranajit Guha, ed., *A Subaltern Studies Reader*.

Peter Hardy, *Muslims of British India*.

Mushirul Hasan, ed., *India's Partition*, Oxford in India Readings.

D.A. Low, ed., *Congress and the Raj*.

John R. McLane, *Indian Nationalism and the Early Congress*.

Jawaharlal Nehru, *An Autobiography*.

Gyanendra Pandey, *The Construction of Communalism in colonial north India*.

Sumit Sarkar, *Modern India, 1885-1947*.

Anil Seal, *Emergence of Indian Nationalism*.

Ram Lakhan Shukla (ed.), *Adhunik Bharat ka Itihas*.

Eleanor Zelliot, *From Untouchable to Dalit: Essays on the Ambedkar Movement*.

SUGGESTED READINGS

Judith Brown, *Gandhi: (et al) A Prisoner of Hope*.

Bipan Chandra, *Communalism in Modern India*, 2nd ed., 1987.

Bipan Chandra, K.N. Panikkar, Mridula Mukherjee, Sucheta Mahajan and Aditya Mukherjee, *India's, Struggles for Independence*.

A.R. Desai, *Social Background of Indian Nationalism*.

A.R. Desai, *Peasant Struggles in India*.

Francine Frankel, *India's Political Economy, 1947-77*.

Ranajit Guha, and G.C. Spivak, eds., *Select Subaltern Studies*.

Charles Heimsath, *Indian Nationalism and Hindu Social Reform*.

F. Hutchins, *Illusion of Permanence*. F. Hutchins, *Spontaneous Revolution*.

V.C. Joshi (ed.), *Rammohan Roy and the process of Modernisation in India*.

J.Krishnamurti, *Women in Colonial India*.

HISTORY OF SUBALTERN (1800 A.D TO 1947 A.D)

Course Code: BHH 603

Credit Units: 03

Course Rationale: The aim of this course is acquainting students about the various aspects of Social condition of the subalterns in the country during 19th and 20th century. Students of History should have a comprehensive understanding of the subaltern to enter in to a meaningful dialogue with the present.

OUTCOME: The course should lead to a deeper understanding and knowledge of the social condition of subaltern in 19th and 20th century. This historical insight and knowledge will enable students to understanding current problems better and suggest ways of coping with them.

MODULE I: A. Sources for the Subaltern History, Subaltern Historiography B. Introduction of Subalterns in India : Women, Dalit, Adiwasi, Peasants

MODULE II: Adivasi Movements in India A. Birsa Munda Movement (1899-1901) B. Santhal Movement (1855-1856) C. Bhagat Movement of Govind Guru (1905-1931) D. National movement and the Adiwasis (1857-1947) 88

MODULE III: Women's contribution to Indian National Movements

A. Some representative women freedom fighters:

- (i) Rani Lakshmi Bai
- (ii) Begum Hazrat Mahal
- (iii) Sarojini Naidu
- (iv) Vijayalakshmi Pandit
- (v) Bhakti Desai
- (vi) Pushpaben Mehta

B. Gandhian Grass Root activities for women

MODULE IV:

A. Peasant Movements in India

A1 Indigo Revolution (1860)

A2 Bardoli Satyagrah (1928)

A3 Kisansabha Movements in India (1936-1947)

B. Dalit Movements in India

B1 Jyotiba Phule

B2 Dr. B.R. Ambedkar (1891-1956)

B3 E. Ramaswaminaikar

Reference Books:

1. Chakvarthy Digamber: History of the santhal revolt of 1855
2. Desai A.R. {ed}: Peasant struggle in India
3. Guha Ranjit: Elementary aspects of peasant Insurgency in colonial India
4. Guha Ranjit, Subaltern studies, vol-v and vi
5. Hunter W.: History of Santhal rebellion of 1855

MAJOR REVOLUTION AND REVOLUTIONARY THOUGHTS

Course Code: BHH 606

Credit Units: 03

Module I: The English Revolutions: From the Civil Wars to the “Glorious Revolution”: Natural Law, Feudal Law, and Common Law. The Social Contract. The Political and the Eschatological, **The American Revolution:** ‘Constitution making’. Despotism and Republicanism. Inalienable right. Democracy and Faction. Slavery.

Module II: The French Revolution: Representation and the Body-Politic. Supreme Reason and General Will. Classical models. Terror and Virtue, **The Russian Revolution:** Politics and the Vanguard. Class, State and Revolution.

Module III: The Chinese Revolution: New Democracy: “On Practice”, “Cultural Revolution”

Module IV: Ahimsa and Revolutionary practice: Swaraj, Swadeshi and Satyagraha.

Text & References:

Thomas Hobbes, Behemoth or the Long Parliament Oxford: Clarendon Press; New York: Oxford University Press, 2010.

3702. BASIC PRINCIPLES OF POLITICAL SCIENCE

Course Name	Course Code	L/T/P	Credit	Semester	
Basic Principles of Political Science	BPS 102	3/0/0	3	1	

CLO1	Establishing a cemented platform for students to learn the evolution and basic fundamentals of Political Science.
CLO2	Upgrading analytical abilities to understand how the different concepts and theories in Political Science are used in empirical world..
CLO 3	Suiting the students with the new approaches which shall make them develop an interest in the subject and make them understand in deeper sense.
CLO 4	Students learn the basic fundamentals to be implemented in other areas of Political Science

Course Code BPS 102

Credit-03

Course Objective:-The course aims at introducing the Political Science honors students to the basic fundamentals of Political Science so that when we they study various concepts and theories, they are familiar with basics of the subject. It is the initial step of the students in the world of Political Science which shall not only make students' theoretically sound but shall also make them understand the realistic political environment around them.

Course Content:-

UNIT I:- INTRODUCTION

- Introduction To Political Science, Evolution, Art Or Science;
- Concepts- Political Science, Political Philosophy, Political Theory;
- BehaviouralismAnd Post Behaviouralism;
- Inter-Disciplinary Approach In Political Science And Correlation With Other Social Sciences;

UNIT II:- CONCEPT OF STATE

- The State : Definition And Elements;
- Theories Of Origin Of State :Divine, Force, Social Contract, Patriarchal-Matriarchal, Historical Or Evolutionary;
- Sovereignty :Meaning, Characteristics And Theories (Monistic And Pluralist);
- State And Government , Introduction To Organs Of The Government : Legislature, Executive And Judiciary;

UNIT-III:- POLITICAL CONCEPTS

- Power, Authority , Legitimacy;

- Brief Introduction to- Claims , Rights, Duties ; Liberty; Equality; Justice
- Rule of Law; Constitutionalism
- Political System, Political Culture, Political Development, Political Modernisation, Political Socialization

UNIT IV:- POLITICAL IDEOLOGIES

- Liberalism; Idealism; Anarchism; Democratic Socialism; Marxism
- Democracy and Dictatorship

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Text and References:-

Andrew Heywood, Political Theory, Palgrave Macmillan (latest edition)

Anup Chand Kapur, Principles of Political Science, S.Chand , New Delhi

Eddy Asirvatham, Political Theory (latest edition)

G. Catlin, A Study of the Principles of Politics, London and New York, Oxford University Press

J.C.Johari, Principles of Modern Political Science, Sterling, Delhi

O.P.Gauba, Political Theory, Macmillan (latest edition)

Rajeev Bhargava & Ashok Acharya, Political Theory : An Introduction, Pearson Loneman, Delhi

R.C.Agarwal, Political Theory (Principles of Political Science), S. Chand , New Delhi

3703. POLITICAL IDEOLOGIES

Course Code BPS 103

Credits-03

Course Name	Course Code	L/T/P	Credit	Semester		
Political Ideologies	BPS 103	3/0/0	3	1		

CLO1	Analyze the impact of political ideologies on the behavior of state.
CLO2	Examine the relationship between theoretical base of ideology and practical politics.
CLO 3	Examine the philosophical roots of various streams of political ideologies
CLO 4	Examine how the state and people relationship is affected by political ideology.

Course Objective: The study of political ideologies gives the student a window through which to view complex political phenomena. This course examines the origins and impact of ideologies on the development of societies. Major ideologies such as liberalism, conservatism, anarchism, Marxist theory, socialism, applied Marxism, fascism, nazism and Third World ideologies are covered.

Module 1: Ideology

- The historical development of ideology.
- The goals and purpose of ideologies.

Module 2:

- Liberalism
- Idealism
- Socialism

Module 3:

- Guild Socialism
- Democratic Socialism
- Syndicalism

Module 4:

- Communism
- Anarchism
- Fascism

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
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Weightage (%)	5	10	10	10	15	50
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Essential Readings:

E. Bernstein : Today's Ism

Cokar : Recent Political Thought

Andrew Heywood : Political Ideologies

3705. GLOBAL THEMES IN DEVELOPMENT AND POLITICS

Course Code BPS 105

Credit-

03

Course Name	Course Code	L/T/P	Credit	Semester		
Global Themes in Development and Politics	BPS 105	3/0/0	3	1		

CLO1	Establishing a cemented platform for students to learn the evolution and liberalization, privatization and globalization.
CLO2	Upgrading analytical abilities to understand how the different concepts and theories in Political Science are used in empirical world.
CLO 3	Suiting the students with the new approaches which shall make them develop an interest in the subject and make them understand in deeper sense.
CLO 4	Students learn the basic fundamentals to be implemented in other areas of economics, international relations and political science

Course Objective:

This course introduces students to the key debates on the meaning and nature of globalization by addressing its political, economic, social, cultural and technological dimensions. In keeping with the most important debates within the globalization discourse, it imparts an understanding of the working of the world economy, its anchors and resistances offered by global social movements while analyzing the changing nature of relationship between the state and trans-national actors and networks.

The course also offers insights into key contemporary global issues such as the proliferation of nuclear weapons, ecological issues, international terrorism, and human security before concluding with a debate on the phenomenon of global governance.

UNIT I: Globalization: Conceptions and Perspectives

- Understanding Globalization and its Alternative Perspectives
- Political: Debates on Sovereignty and Territoriality
- Cultural and Technological Dimension
- Political and ecological Dimension
- Ideologies of Globalization
- Global Crises and future of Globalization

UNIT II: Contemporary Global Issues

- Ecological Issues: Historical Overview of International Environmental Agreements,
- Climate Change, Global Commons Debate
- Proliferation of Nuclear Weapons

- International Terrorism: Non-State Actors and State Terrorism; Post 9/11 developments

UNIT III: Global Economy

- Global Economy: Its Significance and Anchors of Global Political Economy: IMF, World Bank, WTO, TNCs
- Regional Organisations: ASEAN, SAARC, TPP,EU

Examination Scheme:

Components	P/S/V	CT	A	C	EE
Weightage (%)	10	10	5	5	70

Text & References:

Manfred B. Steger, Globalization A very Short Introduction

Andrew Heywood, Global Politics

R. Keohane and J. Nye Jr, (2000) 'Globalization: What's New? What's Not? (And So What?)', in Foreign Policy, No 118, pp. 104-119.

J. Baylis, S. Smith and P. Owens, Globalization of World Politics: An Introduction to International Relations,

T. Cohn, (2009) Global Political Economy: Theory and Practice.

3706. FEMINISM: THEORY AND PRACTICE

Course Code BPS 106

Credit-

03

Course Name	Course Code	L/T/P	Credit	Semester		
Feminism: Theory and Practice	BPS 106	3/0/0	3	1		

CLO1	Establishing a sense of gender equality among students.
CLO2	Upgrading analytical abilities to understand how the different societies and environments work for women.
CLO 3	Suiting the students with the new approaches which shall make them develop an interest in the subject and make them understand in deeper sense.
CLO 4	Students learn the basic fundamentals to be implemented in other areas of economics, international relations and political science

Course Rationale: This course is designed to introduce feminist theories and cultivate the art of critical thinking about gender relations and inequalities.

Unit- I:

- Approaches to Study Patriarchy : Understanding Sex/ Gender Distinction: Biologism versus Social Constructivism
- Patriarchy; Private, Public and Power relations within the Family

Unit-II:

- History of Feminism
- Origins of Feminism in the West: Britain and France
- Liberal and Radical Feminist Trends

Unit-III:

- The Status of Women in India
- The Position of Women in Indian Society
- Gender relations in the Family
- Legal Provisions for the protection of Women in India

Unit-IV:

- Contemporary Position of Women in Indian Society
- Understanding Woman's Work and Labour
- Representation of women in the Indian Parliament
- Debates on the Reservation of Women in Legislature

Reference Books:

1. Geetha, V, *Gender, Stree, Calcutta, 2002*

2. Geetha, V, *Patriarchy, Stree, Calcutta, 2007*

3. Lerner Gerda, *The creation of Patriarchy, New York, OUP,1986*

4. Forbes, G., *Women in Modern India, Cambridge, OUP,1998*

5. Desai Neera and Thakkar, Usha, *Women in Indian Society, New Delhi, National book Trust, 2001.*

6. Rowbothan, Shiela, *Women in Movements, London, Routledge, 1993.*

3713. INDIAN CONSTITUTION

Course Code BPS 201

Credit- 03

Course Name	Course Code	L/T/P	Credit	Semester		
Indian Constitution	BPS 201	3/0/0	3	1		

CLO1	Establishing a cemented platform for students to learn the evolution and basic fundamentals of Indian Constitution.
CLO2	Upgrading analytical abilities to understand how the different concepts and theories in Indian Constitution are used in empirical world..
CLO 3	Suiting the students with the new approaches which shall make them develop an interest in the subject and make them understand in deeper sense.
CLO 4	Students learn the basic fundamentals from Indian Constitution to be implemented in other areas of Political Science.

Course Objective:-The course aims at making the student understand the constitution of India, its evolution and the constitutional bodies, practices and procedures in India. This is an important subject to be understood by Political Science students in manner to understand the Indian political system better.

Course Content:-

UNIT 1:-

- Constitution and Constitutionalism;
- Evolution of Indian Constitution: Major Constitutional Developments since British Era
- Sources of Indian Constitution
- Basic Structure of Indian Constitution (Keshvanand Bharati case, Minerva Mills Case, Golaknath Case)

UNIT-2:-

- Preamble;
- Fundamental Rights,
- Fundamental Duties,
- Directive Principles of State

UNIT 3:-

- Citizenship
- Executive, Legislature, Judiciary
- Local Government
- Emergency Provisions
- Amendment Process, Major Amendments

- Languages

UNIT 4:-

- Schedules – 4th, 5th, 6th, 7th
- Constitutional Bodies- Election Commission, Finance Commission, Union Public Service Commission
- Difference between Parliamentary and Presidential form of Government
- Some issues: Uniform Civil Code, Freedom of Speech, State autonomy, Judicial collegium, Judicial Review. Judicial activism, Public Interest Litigation

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Text and References:-

Basu, D.D. An Introduction to the Constitution of India, New Delhi, Prentice Hall, 1994.

Bhargava Rajeev , Politics and Ethics of Indian Constitution, Oxford

Chakravarty Bidyut , Indian Constitution: Text, Context and Interpretation, Sage Publications

Granville Austin, The Indian Constitution, Oxford India

Johari, J.C., The Constitution of India: A Politico- Legal Study, Sterling

Pylee, M.V., An Introduction to the Constitution of India, New Delhi, 1998

3714. GOV

3726. GOVERNMENT AND POLITICS IN INDIA

Course Name	Course Code	L/T/P	Credit	Semester		
Government and Politics in India	MTBPS 202	3/0/0	3	1		

CLO1	Developing inquisitive nature among students to learn the evolution of the Indian Political System
CLO2	Upgrading analytical abilities to understand how the Indian Political System evolved
CLO3	Enriching the students with practical approach for studying the theoretical aspects of Indian Political System.
CLO4	Students learn to Manage the questions and queries of them on active questions as well as the basic concepts

Course Objective:-The course aims at making the student understand the politics of India Pre and Post-Independence. How the Indian state took shape and what are the contributing factors that affect the Indian Politics then and now. It also gives the student an understanding of composition of Indian State.

Course Content:-

UNIT I:-

- India at the eve of Independence, Continuities and Discontinuities between Pre and Post-Independence, Formation of Political Structure – Constitution,
- Nature of Indian State, Federalism: Nature and Functioning,
- Centre-State Relationship.

UNIT-2:-

- Executive:- President and its role,
- Prime Minister and Cabinet,
- Parliament:- Functioning and Status,
- Judicial System, State Politics and Governance,
- Parties and Politics.

UNIT 3:-

- Regionalism,
- Politics and Pressure Groups,
- Election and Voting Behaviour,
- Secularism,
- Politics of Communalism,
- Caste and Politics.

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Text and References:-

Narang. A. S.- Indian Government and Politics

Fadia. B.L.- Indian Government and Politics

Chakrabarty Bidyut& Pandey Rajendra- Indian Government and Politics

Johari.J.C.-Indian Government and Politics: Basic Framework and State Structure

Singhvi& Sarkar- India: Government and Politics

Siwach.J.R.-Dynamics of Indian Government and Politics

MAJOR WORLD CONSTITUTIONS

Course Code BPS 204

Credit-03

Course Objective: The objective of the course is to acquaint the students with the leading world systems and how the institutions and structure of other countries work. This enables the learner to have a comparative outlook and better understanding of the political system operating worldwide.

Module 1:

- Britain

Module 2:

- United States of America

Module 3:

- China , Japan, Switzerland

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Essential Readings:

VishnooBhagwan : World Constitutions

Ogg& Zink : Modern Foreign Governments

Manelly: Contemporary Government in Japan

A.C. Kapur : Select Constitutions

3719. POLITICAL ECONOMY

Course Name	Course Code	L/T/P	Credit	Semester		
Political Economy	BPS 206	3/0/0	3	1		

CLO1	Developing inquisitive nature among students to learn the evolution of the politics and economy companionship.
CLO2	Upgrading analytical abilities to understand how the different theories work.
CLO 3	Enriching the students with practical approach for studying the theoretical aspects of Political and Economic Current scenarios.
CLO 4	Students learn to Manage the questions and queries of them on active questions as well as the basic concepts of current political economic environment

Course Code BPS 206

Credit 03

Course Objectives:

Module I:

Analysing social change in historical perspective; the method of historical materialism; the transition from feudalism to capitalism; capitalism as a historical process – alternative perspectives, Capitalist development in the pre second World War period, the ‘Golden Age’ and later, Capitalism as an evolving economic system.

Module II:

Changing Dynamics of Capitalist Production, Organisational Form and Labour Process: Fordist and Post-Fordist production; The changing dynamics of the organisation of production, markets and labour process; The evolution of the multinational corporations and their economic logic; The changing nature of employment, job security and labour rights.

Module III:

The State in the Era of Globalisation: Ideology, Theory and Practice: Theoretical foundations and ideological underpinnings of the neoliberal state; The neoliberal state in practice: social contradictions, instability, and the nature of resolutions in a globalized world; The changing role of finance in the dynamics of capital accumulation and the shifts in corporate structure.

Module IV:

The Social Dimension: Globalization and Uneven Development – Growth, inequality

and crisis in an uneven geographical spread and its social ramifications; Dimensions of Gender in work, accumulation and globalization; Political economic issues in environment,

sustainability and inequality.

Text & References:

- Baran, P. (1973). *The political economy of growth*. Chapter 3. Pelican.
- Habib, I. (1995). Capitalism in history. *Social Scientist*, 23, 15-31.
- Harvey, D. (2014). *Seventeen contradictions and the end of capitalism*. Chapter 3. Oxford University Press.
- Arnold, D., Bongiovi, J. (2013). Precarious, informalising, and flexible work: Transforming concepts and understandings. *American Behavioral Scientist*, 57, 289-308

3740. INDIAN POLITICAL THOUGHT II

Course Name	Course Code	L/T/P	Credit	Semester		
Indian Political Thought - II	BPS 401	3/0/0	3	1		

CLO1	Developing inquisitive nature among students to learn the evolution of the Political Philosophy in the Indian Philosophy.
CLO2	Upgrading analytical abilities to understand how the philosophies contribute in framing of Political Theories and concepts.
CLO 3	Enriching the students with philosophical , idealistic and imaginative approach for studying the Political Science and Political Philosophy.
CLO 4	Students learn the implementation of such political philosophies in global Political world

Course Code BPS 401

Credits-03

Course Rationale: Based on the study of individual thinkers, the course introduces a wide span of thinkers and themes that defines the modernity of Indian political thought.

Unit I

- Ambedkar, Ram Manohar Lohia, J.P. Narayan ,PanditaRamabai

Unit II

- Sardar Vallabh Bhai Patel, Periyar E. V. Ramasamy, Maulana Abul Kalam Azad, Iqbal

Unit III

- Bhagat Singh, Subhash Chandra Bose, V.D. Savarkar

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Books Recommended

Roy, R. (1991) 'The Precepts of Jesus, the Guide to Peace and Happiness', Hay, S. (ed.) Sources of Roy, R. (1991) 'The Percepts of Jesus, The Guide to Peace and Happiness', Hay, S. (ed.) Sources of Indian Tradition. Vol. 2. Second Edition. New Delhi: Penguin, pp. 24-29.

Ramabai, P. (2000) 'Woman's Place in Religion and Society', Kosambi, M. (ed.) Pandita Ramabai Through her Own Words: Selected Works. N. Delhi: OUP, pp. 150-155.

Tagore, R. (1994) 'The Nation', Das, S. K. (ed.) The English Writings of Rabindranath Tagore, Vol. 3, New Delhi: Sahitya Akademi, pp. 548-551.

Iqbal, M. (1991) 'Speeches and Statements', Hay, S. (ed.) Sources of Indian Tradition. Vol. 2. Second Edition. N. Delhi: Penguin, pp. 218-222.

Savarkar, V. D. 'Hindutva is different from Hinduism'. Available from: <http://www.savarkar.org/en/hindutva-/essentials-hindutva/hindutva-different-hinduism> (accessed on 22 May 2011.)

Nehru, J. L. (1991) 'Selected Works', Hay, S. (ed.) Sources of Indian Tradition. Vol. 2. Second Edition. N. Delhi: Penguin, pp. 317-319

M.N. Jha, Political Thought in Modern India, Meenakshi Prakashan, Meerut.

Ramratan Ruchi Tyagi, Indian Political Thought, Mayur paperbacks, 2008.

V.R. Mehta, Indian Political Thought, Manohar, New Delhi, 1996.

3741. WESTERN POLITICAL THOUGHT -II

Course Name	Course Code	L/T/P	Credit	Semester		
Western Political Thought - II	BPS 402	3/0/0	3	1		

CLO1	Developing inquisitive nature among students to learn the evolution of the Political Philosophy in the western world..
CLO2	Upgrading analytical abilities to understand how the philosophies contribute in framing of Political Theories and concepts.
CLO 3	Enriching the students with philosophical, idealistic and imaginative approach for studying the Political Science and Political Philosophy.
CLO 4	Students learn the implementation of such political philosophies in global Political world.

Course Code BPS 402

Credits-03

Course Objective:

This course aims at giving an introduction to the students about Western Political Thought. The course is divided into two semester in which Third Semester shall be giving the introductory part in form of Ancient and Medieval Western Political Thought while Fourth Semester shall be having the part II in which Modern Political Thought shall be taught. This course focuses on Plato, Aristotle from Ancient Political Thought and Saint Augustine and Padua from Medieval Political Thought.

UNIT: I

Moving Towards Modern Thought-

- Machiavelli

UNIT: I

Contractualists-

- Hobbes
- Locke

- Rousseau

UNIT: III

Liberals –

- Bentham
- J.S.Mill

Idealists-

- Hegal
- Karl Marx

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Text and References:

Suda.J. P., History of Political Thought

Gauba.O.P., Western Political Thought

Gauba.O.P., Social and Political Philosophy

Nelson.B, Western Political Thought: From Socrates to the age of Ideologies

Mukherjee.S, From Plato to Marx



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Internship	MAV 402	NTCC	10	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	At the time of internship students will gain enough knowledge on how industry works, they will be knowing the work flow over there and they also gain some awareness on client servicing. With this enough knowledge they can set up their own production houses which in turn will increase the employability
CLO 2	--
CLO 3	--
CLO 4	--

B. SYLLABUS

Students preparing to present the internship report are required to adhere to the following guidelines:

Format of the file and its content:

- Cover page
- Declaration from the student
- Acknowledgement
- Certificate from the organization
- Introduction of organisation
- Index

Chapter 1: Introduction to the Organization

- History, Structure and Establishment
- Brief Profile of Owners and Key Personnel
- Area of Operations
- Work Culture
- Key Employee Profile
- Major projects and Clients (in case of Advertising, Graphics Design, 3d Modeling VFX Company, Event Management Company, Photography)
- SWOT Analysis of the Organization
- Future Projects/Plans

Chapter 2: Internship Work

- Initial days in the organization
- My Industry Mentor
- Major Assignments allotted to me
- Accomplishments

Chapter 3: Internship Experience

- Challenges and Problems
- Learning Outcome
- Overall Experience

Chapter 4: Conclusion Appendix (Copies of the work done by the student during internship)

Format of the Report

- File should be hard bind in black color with text printed in golden color
- Text would be printed on one side of the page. Main title should be printed on the separate sheet.
- Font: Times New Roman
- Font Size: 14 (Heading) 12 (Body)
- Line Spacing: 1.5
- Margin: 1 Inch (Top and bottom) 1.5 Inch (Left and right)
- Page number: Right corner on the top of the page.

EXAMINATION SCHEME:

Components	CT/ Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	--	--	50	50	--	--

SUGGESTED READINGS:

3758. MEDIA AND POLITICS IN INDIA

Course Name	Course Code	L/T/P	Credit	Semester		
Media and Politics in India	BPS 504	3/0/0	3	5		

CLO1	To introduce and familiarize students with the nature and evolution of print and electronic
CLO2	To make students understand the key roles, functions and influences of Media on various political processes.
CLO 3	To make students learn the history of development of mass media and their impact on political power.
CLO 4	To develop adaptive understanding in students in regard to the links between media and politics

Course Code BPS 504

Credit: 03

This course shall examine the role of media in Indian politics in politics of India. It also views how Media impacts the ideologies, psychological set ups and political images in the Political System.

Unit I

Introduction- Media

- Evolution of Media- Print Media
- Evolution of Media- Electronic Media(Radio, TV, Internet, Social Media)

Unit II

- Roles, Functions And Influences Of Media On Political Communications,
- Democracyand Political Economy of Media,
- Effects Of Media On Public Opinion And Political Processes,

Unit III

- Media And Foreign Policy, Security And Conflict
- Media and Election Campaigns and Effects
- (Article 19 of Indian Constitution- Media and Politics)

Unit IV

- Nexus- Media and Politics- (pros and cons),
- Paid Media ,
- Social Media and Politics in contemporary times

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Books Recommended

Cook, Timothy. (2005). *Governing with the News: The News Media as a Political Institution*. 2 nd ed.

University of Chicago Press. Dahlgren, Peter. (2009)

Media and Political Engagement: Citizens, Communication, and Democracy. Cambridge University Press. Graber, Doris A. (2009).

Mass Media and American Politics. Washington: CQ Press. Graber, Doris, Denis McQuail, and Pippa Norris, eds. (2007).

The Politics of News: The News of Politics, 2nd. Ed. CQ Press. Kuhn, Raymond. (2007). *Politics and the Media in Britain*. Palgrave Macmillan. McNair, Brian. 2007.

An introduction to political communication. 4th ed.. London: Routledge. Oates, Sarah (2008).

Introduction to Media and Politics. Sage Publications. Rozell, Mark (ed.) (2003).

Media Power, Media Politics. Rowman & Littlefield Seib, Philip (2012).

Real Time Diplomacy: Power and Politics in the Social Media Era. Palgrave Macmillan. Wolfsfeld, Gadi (2011). *Making Sense of Media and Politics*. Routledge.

3775. MODERN POLITICAL ANALYSIS

Course Name	Course Code	L/T/P	Credit	Semester		
Modern Political Analysis	MTBPS 602	3/0/0	3	VI		

CLO1	Developing inquisitive nature among students to learn the evolution of the Political Theory
CLO2	Upgrading analytical abilities to understand how the theories contribute in framing of Political Systems and concepts.
CLO 3	Enriching the students with analytical abilities, critical abilities, and rational approach for studying the Political Science.
CLO 4	Students learn the implementation of such political theories in global Political world.

Course Code BPS 602

Credit:

03

Course Objective: This course aims to provide the student with an understanding of the main theoretical approaches to the analysis of politics by drawing on ideas from political sociology, political science and political theory.

Module 1:

- Evolution of Contemporary perspective of Political Analysis,
- Search For Theory Building, Political science and the context of social relevance,
- Political Theory and its decline.

Module II:

- Group Theory, Distribution Approach (Lasswell),
- Communication Theory,
- Decision – Making Theory, Elite Theory.

Module III :

- Political Process and Change,
- Political socialization,

- Political Culture,
- Political Modernization,
- Political Development

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Essential Readings:

S.P. Verma : Modern Political Theory

Robert Dahl: Modern Political Analysis

Herbert Hyman :Political Socialization: A Study in the psychology of Political Behaviour

Stephen Welch : The Concept Of Political Culture

Lucian Pye: Aspects of Political Development

David E Apter: Politics of Modernization

3772. ENVIRONMENTAL POLITICS IN INDIA

Course Name	Course Code	L/T/P	Credit	Semester		
Environmental Politics in India	BPS 605	3/0/0	3	VI		

CLO1	To make students understand that how environment and politics can be corelated
CLO2	To make students study the policies and institutions working on the concept
CLO 3	To make students understand that how different aspects of environment impacts the national and global politics
CLO 4	To make students develop the understanding for bringing in solutions

**Course Code BPS 605
03**

Credit

Course Rationale: The central focus here is on environmental problems, policies and practices in India and how government institutions have sought to tackle them and with what consequences. Possible solutions and directions to be taken are discussed.

Unit I

- Environment and Development: An Introduction a. Environmental Philosophies, Politics and Ethics
- Historical Legacies: Continuities and Discontinuities in India
- Understanding the Environment in India.
- State, Market, Community & Local Governments

- State: Hardin and the Tragedy of the Commons

- Market: Pricing for Sustainability Community & Local Government Management: A Developing Country Perspective

Unit II

- Policy, Politics, Institutions and Resources
- Forests: State, Trade & Community
- Biodiversity, protected areas & people
- Irrigation- Dams & Canals: State, Science & Inequities d. Groundwater Management & Rainwater Harvesting -49 –
- Agriculture, Soil Management & Cash Crops: implications for environment and women's lives
- Displacement and Resettlement: power, culture and resistance g. Industrialization, Urbanization & Pollution: institutional challenges
- Pastoralists & Nomads: taming of mobile livelihoods

Unit III

- Poverty-Environment Inter-linkages
- Enhancing Livelihoods
- Reducing Environmental Health Risks
- Reducing Vulnerability to Environmental Hazards

Unit IV

- Caste, Gender and Environment
- Global Commons and Initiatives
- Environmental and Social Movements

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Recommended Books

Arnold, David & Guha, Ramachandra (ed), Nature, Culture & Imperialism: Essays on the Environmental History of South Asia, Delhi, Oxford University Press, 1996.

Baviskar, Amita, In the Belly of the River, Delhi, Oxford University Press, 1996

Dryzek, John S., The Politics of the Earth: Environmental Discourses, Oxford, Oxford University Press, 1997.

Guha, Ramachandra & Ali, Juan Martinez. Varieties of Environmentalism: Essays North & South, London, Earthscan, 1997.

Guha, Ramachandra, Environmentalism, Delhi, Oxford University Press, 2000.

Guha, Ramachandra, The Unquiet Woods, Delhi, Oxford University Press, 1992.

Johnston, R. J. Nature, State and Economy: A Political Economy of the Environment. Chichester, John Wiley & Sons, 1996.

McCully, Patrick, Silenced Rivers: The Ecology and Politics of Large Dams, New Jersey, Zed Books, 1996

3773. SOCIAL MOVEMENTS IN INDIA

Course Name	Course Code	L/T/P	Credit	Semester		
Social Movements in India	BPS 606	3/0/0	3	VI		

CLO1	To make students understand the concept of social movement
CLO2	To make students analyse that how social movements impact the politics
CLO 3	To make students understand that how different concepts worldwide impact domestic movements
CLO 4	To develop the understanding among students to learn the different movements and their nexus.

Course Code BPS 606
03

Credit

Course Rationale: This course introduces the students to the important conceptual and theoretical issues of social movement and its critical role in social transformation. It familiarises them with various sociological approaches to the study of social movements. It attempts to sensitise the students with regard to the important social movements in India besides exposing the students to the emerging social movements in recent times.

Unit 1

- Social movements: Definitions, characteristics and types

Unit 2

- Theories on emergence of social movement: Relative deprivation,
- structural-functional, Weberian and Marxist Post-Marxist and contemporary debates.

Unit 3

- Social movements in India: Peasant, Dalit, Tribal, Industrial working class, nationality and sub – nationality movements.

Unit 4

- New social movements in India: Women's movement, Environmental movement,
- Civil rights movement,
- Middle class movements,

- LGBT Movements.

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Essential Reading Lists:

J.A. Banks, 1972 The Sociology of Social Movements, London, Macmillan Desai, 1972

A. R. Deasai, (ed.) 1979 Peasant Struggle in India, Bombay, OUP,1979

D. N. Dhanagare, Peasant Movements in India 1920 – 50, Delhi, Oxford, 1983

M.S. Gore, The Social Context of an Ideology: Ambedkar's Political and Social Thoughts, N. Delhi, Sage.1993

T.K. Oomen, Protest and Change: Studies in Social Movements, Delhi, Sage, 1990

M.S.A, Rao, Social Movements in India, N. Delhi, Manohar, 1979

Social Movements and Social Transformation, Delhi, Macmillan, 1979

Ghanshyam Shah, Protest Movements in Two Indian States: N. Delhi, 1977

Social Movements in India: A review of the Literature, Delhi, Sage, 1990

Nandita Gandhi, Nandita Shah, The Issues of Stake: Theory and Practice in the Contemporary Women's Movements in India, N. Delhi, Kali for Women, 1992

Vandana Shiva, Ecology and the Politics of Survival, New Delhi, Sage, 1991

K.S. Singh, Tribal Movements in India, N. Delhi, Manohar, 1982

3774. GROWTH OF COMMUNALISM AND POLITICS

Course Name	Course Code	L/T/P	Credit	Semester		
Growth of Communalism and Politics	BPS 607	3/0/0	3	VI		

CLO1	Developing inquisitive nature among students to learn the background of the communalism in India.
CLO2	Upgrading analytical abilities to understand how the different perspectives help to understand different dimensions of communalism in India.
CLO 3	Enriching the students with practical approach for studying the theoretical aspects of Indian communalism-secularism debate.
CLO 4	Students learn to Manage the questions and queries of them on active questions as well as the basic concepts

**Course Code BPS 607
03**

Credit

Course Rationale: This course is generally intended to introduce growth of communal ideas and their relevance in contemporary India, by looking on communal politics.

Unit I :

- Nature of Conflict during the Post- Independence period,
- Communalism, Caste and State Reservations

Unit II :

- Post –Independence Period and Communal Conflict,
- Social Identities between Caste Conflicts and Communalism: The Case of Gujarat

Unit III :

- Caste Conflict : Atrocities on Dalits and Tribal Conflict
- Ethnic Conflict : Problems in North Eastern Region,
- Communalism, Caste, and Violence Against Christians

Unit IV:

- Regional Conflict: Interstate Conflict,
- Conflict over natural Resources,
- Conflicts within the regions,
- Identity Politics as a Race to the Bottom.

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Reading Lists

1. *Brown, L. Susan, The Politics of Individualism, Black Rose Books, 2002*
2. *Bipin Chandra : Communalism in India*
3. *Shahid Amin, Events, Metaphor and Memory Oxford University, 1996*
4. *Veena Das(edited)Mirrors of violence: Communities, Riots and Survivors in South Asia, Oxford University Press, 1990*
5. *Pater Hardy The Hindu-Muslim Questions*
6. *Mushirul Hasan Nationalism and Communal Politics in India (1961-1928)*

Course Title: Anandam

Type: C

3726. GOVERNMENT AND POLITICS IN INDIA

Course Name	Course Code	L/T/P	Credit	Semester		
Government and Politics in India	MTBPS 202	3/0/0	3	1		

CLO1	Developing inquisitive nature among students to learn the evolution of the Indian Political System
CLO2	Upgrading analytical abilities to understand how the Indian Political System evolved
CLO3	Enriching the students with practical approach for studying the theoretical aspects of Indian Political System.
CLO4	Students learn to Manage the questions and queries of them on active questions as well as the basic concepts

Course Objective:-The course aims at making the student understand the politics of India Pre and Post-Independence. How the Indian state took shape and what are the contributing factors that affect the Indian Politics then and now. It also gives the student an understanding of composition of Indian State.

Course Content:-

UNIT I:-

- India at the eve of Independence, Continuities and Discontinuities between Pre and Post-Independence, Formation of Political Structure – Constitution,
- Nature of Indian State, Federalism: Nature and Functioning,
- Centre-State Relationship.

UNIT-2:-

- Executive:- President and its role,
- Prime Minister and Cabinet,
- Parliament:- Functioning and Status,
- Judicial System, State Politics and Governance,
- Parties and Politics.

UNIT 3:-

- Regionalism,
- Politics and Pressure Groups,
- Election and Voting Behaviour,
- Secularism,
- Politics of Communalism,
- Caste and Politics.

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Text and References:-

Narang. A. S.- Indian Government and Politics

Fadia. B.L.- Indian Government and Politics

Chakrabarty Bidyut& Pandey Rajendra- Indian Government and Politics

Johari.J.C.-Indian Government and Politics: Basic Framework and State Structure

Singhvi& Sarkar- India: Government and Politics

Siwach.J.R.-Dynamics of Indian Government and Politics

3728. WESTERN POLITICAL THOUGHT- I

Course Name	Course Code	L/T/P	Credit	Semester		
Western Political Thought- I	BPS 302	3/0/0	3	1		

CLO1	Developing inquisitive nature among students to learn the evolution of the Political Philosophy in the western world..
CLO2	Upgrading analytical abilities to understand how the philosophies contribute in framing of Political Theories and concepts.
CLO 3	Enriching the students with philosophical , idealistic and imaginative approach for studying the Political Science and Political Philosophy
CLO 4	Students learn the implementation of such political philosophies in global Political world.

Course Code BPS 302

Credits-03

Course Objective:

This course aims at giving an introduction to the students about Western Political Thought . The course is divided into two semester in which Third Semester shall be giving the introductory part in form of Ancient and Medieval Western Political Thought while Fourth Semester shall be having the part II in which Modern Political Thought shall be taught. This course focuses on Plato, Aristotle from Ancient Political Thought and Saint Augustine and Padua from Medieval Political Thought .

UNIT: I Ancient Political Thought

Greek Political Thinkers –

- 1.Sophists
- 2.Socrates
- 3.Plato
- 4.Aristotle

UNIT: II Roman Political Thought-

- 1.Polybius
- 2.Cicero

UNIT: III Medieval Political Thought-

- 1.Saint Thomas Aquinas

- **2.Marcilio of Padua**
- **3.Saint Augustine**

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Text and References:

Suda.J. P., History of Political Thought

Gauba.O.P., Western Political Thought

Gauba.O.P., Social and Political Philosophy

Nelson.B, Western Political Thought: From Socrates to the age of Ideologies

Mukherjee.S, From Plato to Marx

3755. INTERNATIONAL RELATIONS- II

Course Name	Course Code	L/T/P	Credit	Semester		
International Relations -II	BPS 501	3/0/0	3	1		

CLO1	To introduce and familiarize students with the key concepts of International Relations
CLO2	To make students understand the key theories involved in the conduct of International relations.
CLO 3	To make students learn the key concepts and trends in world politics
CLO 4	To develop adaptive understanding in students in regard to the important concepts and ideas of International relations

Course Code BPS 501

Credit: 03

Course Rationale: This course serves as a second part to the study of important issues in modern international relations. The goal of the course is to teach students basic concepts and theories that are useful for making sense of contemporary debates and challenges in international politics.

Unit: I

Contending Theories and Approaches to the study of International Relations;

- Idealist,
- Realist,
- Systems,
- Game,
- Communication and
- Decision-making,
- Power, Interest and Ideology in International Relations;
- Elements of Power: Acquisition, use and limitations of power,
- Perception, Formulation and Promotion of National Interest,

Unit: II

- Meaning, Role And Relevance Of Ideology In International Relations.
- Arms And Wars: Nature, Cause And Types Of Wars/Conflicts Including Ethnic Disputes; Conventional, Nuclear/Bio-Chemical Wars;
- Deterrence, Arms Race, Arms, Control And Disarmament.
- Peaceful Settlement Of Disputes, Conflict Resolution,
- Diplomacy, World-Order And Peace Studies.
- Defence Studies

Unit: III

- Globalization
- Rights and Duties of states in international law,
- Intervention,
- Treaty Law,
- Prevention And Abolition Of War.
- North-South Dialogue,
- South-South Cooperation,
- Regional And Sub-Regional Organizations Especially SAARC, ASEAN, OPEC, FIPIC.

Unit: IV

- United Nations : Aims, Objective, Structure and Evaluation of the working of UN;
- Peace Keeping;
- Power-struggle and Diplomacy within UN;
- India's Role in International affairs relations with its neighbours-
- India- Nepal, Bhutan, Pakistan, China, Afganistan, Sri Lanka, Maldivies

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Reading Lists:

Jackson, R and Sorensan Y, Introduction to International Relations; Theories and approaches, New York, OUP, 2008.

Baylis, J and Smith, S (Eds), The Globalization of World Politics; An Introduction to International Relations, Oxford, OUP,2011

Aneek Chatterjee, International Relations Today; Concepts and Applications, New Delhi, Pearson Education, 2008.

E.H. Carr, International relations between the two world Wars, London, Palgrave Macmillan, 2004.

3757. INDIA'S FOREIGN POLICY

Course Name	Course Code	L/T/P	Credit	Semester		
India's Foreign Policy	BPS 503	3/0/0	3	V		

CLO1	Developing analytical nature among students to learn the evolution of the ideals of Indian Foreign Policy
CLO2	Upgrading understanding abilities to understand how the domestic foreign policy can impact the international environment.
CLO 3	Exposing the students with the fundamentals in India's Foreign Policy in past as well in present times.
CLO 4	Students learn the implementation of theoretical and idealistic values in pragmatic world.

Course Code BPS 503

Credit: 03

Course Rationale: The course aims to provide a theoretical and analytical understanding of India's Foreign Policy. It significantly influences the international relation & politics and therefore, this paper is quite relevant for providing a perspicacious understanding of international relations/politics.

Unit- I: Evolution of Indian Foreign of Policy

- Determinants of Indian Foreign of Policy
- Continuity and change in Indian Foreign Policy

Unit-II: Non-Alignment and UNO

- The role of India in the Non-Alignment Movement
- Relevance of Non-Aligned Movement in the Contemporary World
- Role of India in the UNO in protection of International Peace

Unit-III: India's Relation with USA and China

- Indo- US Relations: Pre- Cold War Era, Post- Cold War Era
- India – China Relations: Pre- Cold War Era, Post- Cold War Era

Unit-IV: India and her Neighbours

- Indo- Pakistan Relations
- India's role in South Asian Association of Regions Cooperation (SAARC)

Examination Scheme:

Components	P0	P1	C1	H1	CT	ET
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	(Attendance)					
Weightage (%)	5	10	10	10	15	50

Reading Lists:

1. David Scott (Ed), *Handbook of India's International Relations*, London, Routledge, 2011
2. Ganguly, S (Ed), *India as an Emerging Power*, Portland, Franck class, 2003
3. Pant, H, *Contemporary Debates in Indian Foreign and Security Policy*, London, Palgrave Macmillian, 2008
4. Tellis, A and Mirski, S (Eds), *Crux of Asia; China, India, and the Emerging global Order*, Washington, Carnegie endowment for international peace, 2013
5. Muni, S.D, *India's Foreign Policy Delhi CUP*, 2009
6. Alyssa Ayres and Raja Mohan, C (Eds), *Power Realignment in Asia: China, India and the United States*, New Delhi, Sage, 2002.
7. Dutt, V.P, *India's Foreign Policy in a Changing World*, New Delhi, NBT, 2011

3775. MODERN POLITICAL ANALYSIS

Course Name	Course Code	L/T/P	Credit	Semester		
Modern Political Analysis	MTBPS 602	3/0/0	3	VI		

CLO1	Developing inquisitive nature among students to learn the evolution of the Political Theory
CLO2	Upgrading analytical abilities to understand how the theories contribute in framing of Political Systems and concepts.
CLO 3	Enriching the students with analytical abilities, critical abilities, and rational approach for studying the Political Science.
CLO 4	Students learn the implementation of such political theories in global Political world.

Course Code BPS 602

Credit:

03

Course Objective: This course aims to provide the student with an understanding of the main theoretical approaches to the analysis of politics by drawing on ideas from political sociology, political science and political theory.

Module 1:

- Evolution of Contemporary perspective of Political Analysis,
- Search For Theory Building, Political science and the context of social relevance,
- Political Theory and its decline.

Module II:

- Group Theory, Distribution Approach (Lasswell),
- Communication Theory,
- Decision – Making Theory, Elite Theory.

Module III :

- Political Process and Change,
- Political socialization,

- Political Culture,
- Political Modernization,
- Political Development

Examination Scheme:

Components	P0 (Attendance)	P1	C1	H1	CT	ET
Weightage (%)	5	10	10	10	15	50

Essential Readings:

S.P. Verma : Modern Political Theory

Robert Dahl: Modern Political Analysis

Herbert Hyman :Political Socialization: A Study in the psychology of Political Behaviour

Stephen Welch : The Concept Of Political Culture

Lucian Pye: Aspects of Political Development

David E Apter: Politics of Modernization



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
News & Contemporary Issues	BJM 107	1:2:0	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the different aspects of news and contemporary issues,
CLO 2	Identify the various discourses based on news and contemporary issues along with comprehensive insight into the concepts and strategies.
CLO 3	Demonstrate specialized knowledge in creating and developing content for the various national issue discourses and its application in journalistic profession,
CLO 4	Exhibit expertise in multiple sub-fields of news and contemporary issues,
CLO 5	Employ and interpret various discourse based on news and contemporary issues,

B. SYLLABUS

Module I: Current Affairs

Newspaper reading and discussion on important national stories

Top ten Indian personalities in news

Module II: Political Issues

Naxalism and Marxism

Reservation & Positive Affirmation

Criminalization of Politics

Religion, communalism and politics

Contemporary Political Issues

Module III: Indian Economy

Profile of the Indian economy: An overview Industry Agriculture

IT and Telecom Money and inflation

Module IV: National Organizations

Central Bureau of Investigation Election Commission Central Vigilance Commission
National Human Rights Commission

EXAMINATION SCHEME:

Components	CT/ Mid- term	Assignmen t	Project	Viva Voce	Attendanc e	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Journals: Reputed National Journals & Newspapers:
2. Year Books: Competition Success Review, Manorama, Times Year Book, Internet Resources.
3. Periodicals: India Today, Frontline, Outlook, The Week, Mainstream, Economic and Political Weekly.
4. India 2019: Publication Division.
5. The Making of India's Foreign Policy: J. Bandyopadhyay
6. Introduction to the Constitution of India: Justice Durgadas Basu
7. Indian Administration: S. Maheswari
8. Indian Economics: K. Sundaram
9. Chakrabarty, Bidyut & Pandey, Rajendra Kumar. (2009). Modern Indian political thought: Text and context. New Delhi: Sage.
10. Chandhoke, Neera & Priyadarshi, Praveen. (2009). Contemporary India: Economy, Society, Politics. New Delhi: Dorling Kindersley (India).
11. Rangarajan, Mahesh. (2007). Environmental issues in India. New Delhi: Dorling Kindersley.



Course Name	Course Code	LTP	Credit	Semester
DIGITAL MARKETING	MBA376	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To familiarize students with key aspects of digital marketing.
CLO 2	Develop knowledge in digital marketing domain and help students to develop an understanding of the framework within online marketing businesses and its operations.

B. SYLLABUS

Module I: Introduction

Introduction to Digital Marketing; Objectives of Digital Marketing; Marketing in Digital Economy; Influential Digital Subcultures; Digital Marketing Strategy;

Module II: Search Marketing & Search Advertising

Search Engine Optimization; Organic & Paid Search Results; Overview of Google AdWords; Keyword Research and analysis; Tracking the success of SEM; Search Engine Optimization techniques; On-page & Off-page optimization; Search Advertising: Basic Concepts; Elements of Search Ad; Managing Pay Per Click Process

Module III: Social Media Marketing & Digital Display Advertising (DDA)

Different Social Media Channels; Social Media Marketing (SMM) Process; Managing and Analyzing SMM Process; Key Stakeholders in Digital Display; Managing DDA Process

Module IV: Email & Mobile Marketing

Email Strategy & Planning; Advantages & Challenges of Email Marketing; Managing Email Marketing Process; Understanding Mobile Marketing; Mobile Messaging Channels; Mobile Commerce; Managing Mobile Marketing Process

Module V: Affiliate & Video Marketing

Affiliate Marketing: Basic Concepts, Building Blocks of Affiliate Marketing; Video Marketing: Basic Concepts, Video Production & Promotion; Content Marketing: Basic Concepts, Strategic Building Blocks of content Marketing

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & Reference Books

- Ian Dodson (2016), The Art of Digital Marketing, 1st Edition, Wiley
- Stokes, B., (2013), E-marketing: The essential guide to marketing in a digital world, 5Edition, Quirt E-marketing Pvt Ltd.
- Kotler, P., Kartajaya, H., & Setiawan, I., (2017), Marketing 4.0: Moving from Traditional to Digital, 1st Edition, Wiley
- Chaffey, D., & Smith, PR., (2008), E-marketing Excellence, 3rd Edition, Elsevier



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Advertising Principles & Practices	BJM 201	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Student will get an insight and awareness about the concept, principles, and practices of Advertisement.
CLO 2	Student will be able to understand various practical aspects of advertising along with the functioning and various avenues of advertising agencies.
CLO 3	Student will develop an understanding about the ethical aspects of Advertising and Media plan.

B. SYLLABUS

Module I:

Understanding Market

Understanding Target audience

Understanding consumer behaviour

High/Low Involvement Products

Segmenting , Targeting , Positioning (S T P)

Module II:

Advertising planning

Campaign planning

Defining advertising objectives through marketing objectives

Communication objectives

Advertising Budgeting

Module III:

Copywriting- meaning, definition and objectives

Copywriting- Print Media

Copywriting- Electronic Media

Guidelines for creative copywriting

Module IV: The Media Plan

Selecting communication channel

Determining the advertising budget

Deciding on communication mix

Evaluation

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Chunawalla, Sethia, S. (2015). Foundation of Advertising (8th ed., Vol. 1). Himalaya Publications.
2. Mohan, M. (2008). Advertising Management (2008 ed., Vol. 8th, p. 429). McGraw Hill Education (India) Private Limited.
3. Jethwaney, J. (2006). Advertising (6th ed., Vol. 1, p. 716). Oxford University Press.
4. Thomas, C., & Guinn, O. (1999). Advertising (1st ed., p. 694). South-Western College Pub.



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Public Relations	MTBJM 303	2:1:0	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Comprehend the significance, role and functions of an effective Public Relations
CLO 2	Identify the Essential Skills that a PR Professional possesses to be successful in the profession and apply them in real-life situations.
CLO 3	Understand and draft the significance of various types of PR Writings Formats.
CLO 4	Students will get hands-on-training on the tools and strategies for PR startups.

B. SYLLABUS

Module I: Basics of Public Relations

Definitions and concepts

Role and Objectives of PR

Principles and tools of Public Relations, Basic elements of PR

PR as a tool of modern management

PR role in the Indian Setting-Developing economy

PR as distinct form and other forms of Communication,

PR and Publicity, Lobbying, Propaganda, Sales Promotion, and Advertising, PR and Corporate Marketing Services.

Types of Publics - Internal & External PR

Public Relations in India

Changing trends in PR, MPR, Digital PR, Artificial Intelligence, Digital Storytelling

Event & Crisis Management

Module II: Public Relations & Media Affairs

Planning advertising and Publicity campaign

Media relations and media planning

Making Press kit

Organizing press conference

Module III: PR Writing

Writing for press

Press release & PR News Wire Sites

Writing company profile

Contents for the newsletter

Module IV: PR for social development

Public Relations, NGOs & socio-economic development

Public Relations in journalism and advertising

Public Relations Laws and Ethics

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Allen H. (2008). Effective Public Relations. S. M. & Center, Prentice Hall
2. Moore, H. Frazier & Frank B.K.(2005). Public Relations : Principles, Cases and Problems..
Richard D Irwin
3. Reddi, C.V.N. (2001). Effective Public Relations and Media Strategy (8th Edition). Prentice Hall of India.

4. Sachdeva, I.S. (2009). Public Relations: Principles and Practices. (4TH Edition). Oxford Press
5. Jethwaney,J. (2009). Public Relations Management. Sterling Publications



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Corporate Communication	MTBJM 405	2:0:2	3	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Explain the meaning and purpose of corporate communication function in an organization namely: what it does and how the department contributes towards the building of brand image and a strong corporate reputation amongst the various stakeholder groups and the public at large.
CLO 2	List out the key elements and components of an effective Corporate Communication Strategy
CLO 3	Describe the effectiveness of a sound Communication Response Strategy to a Crisis situation.
CLO 4	Develop a clear understanding about the role and functions of a Corporate Communication Professional in an organization and the skills and qualities required by them to excel in the field.
CLO 5	Critically analyse the various issues and challenges faced by the professionals in the field of Corporate Communication.

B. SYLLABUS

Module I: Corporate Communication

Introduction

Role and functions and Scope of Corporate Communication

Differences and Similarities between PR and CC

Elements of corporate communication: Corporate Governance, Corporate Philosophy, Culture

Corporate Identity, Citizenship and Philanthropy

Module II

Image management

Corporate Reputation

Direct marketing, network marketing

Crisis management, disaster management

Media management

Event management

Module III

Celebrity management

Public affairs, political PR

Lobbying

Desktop publishing (DTP)

Group communication

Module IV

Talent of a corporate communicator: Employee Communication, Team Work, Leadership & Motivation

Major issues facing corporate PR professional

Areas of Strategic Thinking in Corporate Communication

Corporate communication strategies in the context of globalization

Corporate Publications and Tools – The need, scope and role of corporate publications in communication with both internal and external publics. Types of Corporate Publications – Employee Manuals/Handbooks – Internal and External House Journals – Trade Bulletin – Catalogues – Booklets and Brochures-Leaflets and folders – Fact sheets – Direct Mailers etc.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Paul, A.& & Jain, F.(2007). The Power of Corporate Communication (4TH Edition). McGraw-Hill/Irwin
2. Cornelissen, J. (2013). Corporate Communication: A Guide to Theory & Practice (3RD Edition). Sage Publication
3. Venkataraman.(2008). Corporate communication (3rd Edition). Sterling Publisher
4. Newman, G..Corporate communication. State University, of New York



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Event Management	BJM 503	2:0:2	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Visualize and explain how to create an event that achieves specific objectives for the host/client.
CLO 2	Design a Planning Process that incorporates Budgeting, Project Management, Communication and Evaluation Tools.
CLO 3	Develop an understanding of the various event elements (food and beverage, design, entertainment, site selection, back drop etc.) and how to cost-effectively employ them.
CLO 4	Understand the role of the Event Planner on site at the event, and the mindset necessary to oversee successful event coordination

B. SYLLABUS

Module I: Introduction to Events

Defining Event and Event Management

Different Kinds of Events

Principles of event management

Relationship between-Events, Advertising, and PR

Module - II - Event planning and team management

5c's of Event Designing, concept and designing

Scheduling, Technical requirements-Lighting, Audio/Video

Pre, During Post Event Activities Logistic ,catering, Suppliers

Event Theme, venue, target audience, layout, theme, backdrop ,banner, decor

Module III: Marketing of Different Kinds of Events

Departments in an event Management company

Marketing of an Event, various media for event promotion

Understanding the relevance, strength and weakness of each media

Sponsorship

Event marketing and event promotion

Brand Positioning through Events

Module IV: Event Evaluation

Basic Evaluation Process

Establishing tangible objectives and sensitivity in evaluation

Evaluation from Event Organizers' Point of View

Evaluation from Clients' Point of View

EXAMINATION SCHEME:

Components	CT/ Mid- term	Assignmen t	Project	Viva Voce	Attendanc e	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Palmer, S. (2000). Essential Guide to Stage Management, Lighting and Sound, USA, Hodder & Stoughton
2. Walters, G. (2001). Stage Lighting step-by-step, Better way Books
3. Parker, W. (2003). Scene Design and Stage Lighting, Thomson Wadsworth
4. Gaur, S (2009). Event Marketing & Management, New Delhi, Vikas Publishing House
5. Wagen, L (2010) Event Management, Australia, Pearson



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Digital Video Production	BAV208	2:0:2	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Investigate the Idea of planning and creating digital videos.
CLO 2	Creating a design for various stages of story for digital video production.
CLO 3	Apply basics of production process to create a final proposal for digital videos.
CLO 4	Develop a creative portfolio for their own story/idea to create the digital video.

B. SYLLABUS

Module I: Basics of Video camera

Basic parts of camera

Working of the camera

Types of camera

Camera Mounts, Accessories and Care

Videotape Formats - S-VHS, VHS, U-matic, Betacam & Betacam-SP, MINI-DV, DVCAM, DVC

PRO, HD

Camera movements, shots & angles

Principles of composition and visual grammar

Module II: Lighting

Difference between natural and artificial lighting

Use of natural light and reflectors

Factors that influence lighting needs

Bouncing light

Studio lighting instruments: Types of lights

Basic lighting set up: Three point lighting

Technical: - Color Temperature, Light intensity, Filters

Lighting tips

Taking Care of Lights and Yourself

Module III: Planning the Production and Scripting

Stages of Production

Research: location, budget, people, access, permission, insurance, resources, and time

Basics of Writing for TV

Scripting Practice

Module IV: Shooting and Editing

Singlecam and Multicam shoot

Shooting Practices: Indoor and Outdoor

Editing Practice: Adobe Premier

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Donald, R., & Spann, T. (2000). Fundamentals of television production. Ames, Iowa: Iowa State University Press.
2. Belavedi, V. (2013). Video production. Corby: Oxford University Press.
3. Zettl, H. (2010). Television production handbook (Eleventh Ed.). Wadsworth Publishing Company.
4. Collie, C. (2007). The business of TV production. Port Melbourne, Vic., Australia: Cambridge University Press.
5. Utter back, A. (2007). Studio television production and directing. Amsterdam: Focal Press.
6. Harris, P. (2006). Television production. Tinley Park, Ill.: Goodheart-Willcox.



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Digital Story Telling	BAV308	2:0:2	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify the elements of a digital storytelling.
CLO 2	Analyze a story's potential for digital storytelling.
CLO 3	Synthesize the theme (premise) of a story.
CLO 4	Render effective storyboard panels including notation. Sketch key emotions and body language.

B. SYLLABUS

Module I - Introduction to fundamentals

Storytelling - oral, visual, written and digital storytelling - Types of story -story telling methods and techniques - Aristotle's 7 elements of good storytelling- Three act structure; Gustav Freytag's five act structure - Story or Narrative arc and its types.

Module II - Creative writing and production techniques.

Brainstorming for ideas - Developing the brain storm idea - Camera angles/shots, movements and color tone, as a powerful digital story telling tool - screen play writing - Video composition principles using smartphone.

Module III - Producing digital storytelling projects

Create a meme on the following genre (funny, miserable, thought provoking, and sarcastic) with a strong content.

Create and upload a 3 - 5 minutes digital story on YouTube with proper thumbnail and proper hashtags.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Department of Media studies, Anna University, Chennai.
2. Digital Storytelling, Brown University, Providence, RI.
3. Digital Storytelling, Loyola University, Chicago.
4. Digital Storytelling, **CUNY York College, New York.**
5. Digital video Composition rules - [Video Composition Rules: A Simple Guide – DIY Video Studio](#)
6. Udemy Blog - [13 Great Storytelling Techniques: How to Construct a Winning Story | Udemy Blog.](#)
7. The Write practice - [Story Arcs: Definitions and Examples of the 6 Shapes of Stories \(thewritepractice.com\)](#)
8. Story structure - [Freytag’s Pyramid: Definition, Examples, and How to Use this Dramatic Structure in Your Writing \(thewritepractice.com\).](#)
9. Story Plots - [Elements of Plot.pdf \(bisd303.org\)](#)
10. Importance of writing structure - [The Importance of Structure when Writing: Five-Act Structure & \(proactivewriter.com\)](#)



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Foley & Sound effects for Film & Animation	BAV507	2:0:2	3	5

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Perform live sound effects creatively with a secure grasp and understanding of the processes involved.
CLO 2	Produce a sound effects track that is technically sophisticated and responds successfully to the given brief.
CLO 3	Evaluate and creatively apply digital post production techniques in the production of a finished soundtrack recording
CLO 4	Synchronize audio to video using music technology and/or video editing software

B. SYLLABUS

Module 1

Brief History of Foley in films
Introduction to Foley Sound- Jack Foley – Sound Designer
Film Ambience
Film Library Sounds, Film Foley Sound FXs
Uses of Equipment's in creating Foley Sounds.
Techniques for recreating various foley Sounds.

Module 2

Post-production sound FXs
Dubbing audio for films and animations
Recreating Foley sounds with MIDI.
Recreating Foley sound with Musical Instrument
Recreating Foley sounds for films and animations.

Module 3

Modern Foley and Sound FXs

Fine tuning and manipulation of Foley sound in editing software

Replication and creation of Foley sounds in editing software.

Creating SFX for films and animations

Assemble sounds according to the video in video editing software.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Ament, V. T. (2014). *The Foley Grail: The Art of Performing Sound for Film, Games, and Animation*. CRC Press.
2. Kaye, D., & LeBrecht, J. (2015). *Sound and Music for the Theatre: The Art & Technique of Design* (4 edition). New York; Abingdon, Oxon: Focal Press.
3. Chion, Michel (1994). *Audio-vision: Sound on screen*. (Ed. and Trans. Claudia Gorbman). New York: Columbia University Press



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Media Marketing and Sales	MJM 308	3:1:0	4	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Student will get an insight and awareness about the concept and types of Media marketing.
CLO 2	Student will be able to have an overview of the various aspects of Media planning and buying.
CLO 3	Student will have an understanding how to develop skills to mane the media sales.

B. SYLLABUS

Module I: Introduction to Media Marketing and Sales

Communication Sales: Introduction to all types of Media Sales, Indian Media And Entertainment Industry- Origin, Size, Growth rateThe factors contributing to the growth/ de-growth Media and Entertainment industry, Indianadvertising industry - Origin,size and growth rate, Study the factors contributing to the growth/ de-growth Indian advertising industry, Sector wise (FMCG/Auto/BFSI) contribution to the overall advertising revenue in past 5 years, Introduction to all kinds of media Vehicle sales. Print, TV, Radio, Digital, Outdoor, Cinema, Client servicing and consumer behaviour

Module II: Detailed Study of all kinds of media vehicle sales

Understanding or sales process. Who is a sales person?

Relationship and Needs-Based Selling. Identifying the ideal customer.

Understanding the sales process. Networking and professional Basics. What to say and how to say it.

Introduction to print media/TV/Radio/Events/Cinema sales.Discuss the factors

affecting the growth-de-growth of various media platform.

Discuss category wise (Auto/telecom/ BFSI/ FMCG) ad spends in media. Analyse the categories where advertising in print is dominant.

Media sales in detail right from origin. Introduction to space selling, advertorial sales, integrated sales.

Learning proposal making for media sales. Understanding of Cubic cms, full page spreads, mastheads, jackets.

Module III: Branded Content Sales

Introduction to Branded content. Study of co creation of content

The concept of branded content in Print media. Various formats of branded content in print.

The concept of branded content in Television. Various formats of branded content in Television.

The concept of branded content in Radio. Various formats of branded content in Radio media.

The concept of branded content in Digital Media. Various formats of branded content in Digital media.

Introduction to the concept of in show product placement. Discuss how brands can benefit out of this.

Module IV: Media Investments - Media Planning and Buying

Introduction to media investments. Early 80 s and 90 s and study of how media agencies have evolved overtime.

Study the satellite boom and how media buying came in to picture

Introduction to Media Basics. Metrics, Television metrics, Benchmarking metrics, Plan metrics, Print and Radio metrics

Discuss Media Strategy. The need for a media strategy/Building Blocks of media strategy. Situation analysis

TG Definition. Study of Data sources, SEC old vs New (as per BARC),

Segmentation Studies.

Study of Market prioritization based on growth, competition and category size.
Allocating budgets as per market.

Studying ways of setting efficient media weights. Setting media weights basis competition, setting task based media weights.

Various types of Media Mix Decisions based on product/service, competition and market.

EXAMINATION SCHEME:

Components	CT/ Mid- term	Assignmen t	Project	Viva Voce	Attendanc e	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Kotler, P. (2009) *Marketing Management.*, U.S. Pearson Prentice Hall
2. Verma. H (2006) *Brand Management*, New Delhi, Excel Books
3. Gaur, S (2009). *Event Marketing & Management*, New Delhi, Vikas Publishing House



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Sound Editing	MAV 109	2:0:2	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	--
CLO 2	--
CLO 3	--
CLO 4	--

B. SYLLABUS

Module1

Introduction to Sound
Introduction to Beat mapping
Digital sound files
Working with different sound formats
Recording digital audio files
Sound producing
Sound extracting
Advantages and disadvantages of midi & digital audio
Difference between midi and digital audio

Sound for the World Wide Web
Editing of sound in multimedia project
Sound production tips
Keeping track of sound
Testing and evaluation of sound

Module 2

Sound recording
Introduction to Pitch Editing
Editing digital recording
Trimming
Splicing and assembly
Volume adjustments
Sound format conversion
Re-sampling or downloading

Fade-in and fade -out
Equalization
Time stretching
Digital signal processing
Reverting sound
Making midi audio
Other audio file formats

Module 3

Removing excess ambiance with adverb

Adding effect automation enveloping
Introduction of envelop (volume, panning, adding & flipping points)
Previewing effect automation
Applying effect automation
Setting fade & cross-fade properties
Cutting, copying and pasting sound
Adding mirror and wave hammer
Dry out & wet out
Converting sound mono to stereo
Looping of sound

Burning the audio CD
Making the remix sound track with using all the special FX from the software
Exporting the files in different formats
Save in wav, mp3 etc.

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Apple Pro Training Series: Sound Editing in Final Cut Studio by Jeff Sobel
2. The Book of Audacity: Record, Edit, Mix, and Master with the Free Audio Editor by Carla Schroder



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Digital Video Production	MAV 209	2:0:2	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Comprehend and demonstrate themselves in any organization or individually with shoot and edit various films, videos, web series, tv productions
CLO 2	. Identify the Essential Skills that an independent Film maker and a video editor should have and utilize the knowledge of camera skills and editing skills
CLO 3	Possesses the Skills of a professional independent Film maker and a video editor and able to cope with any basic requirement of the client
CLO 4	Develop a showreel that is best for Film maker and a video editor

B. SYLLABUS

Module I: Basics of Video camera

Basic parts of camera

Working of the camera

Types of camera

Camera Mounts, Accessories and Care

Videotape Formats – S-VHS, VHS, U-Matic, Betacam&Betacam-SP, MINI-DV, DVCAM, DVC PRO, HD

Camera movements, shots & angles

Principles of composition and visual grammar

Module II:Lighting

Difference between natural and artificial lighting

Use of natural light and reflectors

Factors that influence lighting needs

Bouncing light

Studio lighting instruments: Types of lights

Basic lighting set up: Three point lighting

Technical: - Color Temperature, Light intensity, Filters

Lighting tips

Taking Care of Lights and Yourself

Module III: Planning the Production and Scripting

Stages of Production

Research: location, budget, people, access, permission, insurance, resources, and time

Basics of Writing for TV

Scripting Practice

Module IV: Shooting and Editing

Singlecam and Multicam shoot

Shooting Practices: Indoor and Outdoor

Editing Practice: Adobe Premier

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. Donald, R., & Spann, T. (2000). Fundamentals of television production. Ames, Iowa: Iowa State University Press.
2. Belavedi, V. (2013). Video production. Corby: Oxford University Press.
3. Zettl, H. (2010). Television production handbook (Eleventh ed.). Wadsworth Publishing Company.
4. Collie, C. (2007). The business of TV production. Port Melbourne, Vic., Australia: Cambridge University Press.
5. Utterback, A. (2007). Studio television production and directing. Amsterdam: Focal Press.
6. Harris, P. (2006). Television production. Tinley Park, Ill.: Goodheart-Willcox.



AMITY SCHOOL OF COMMUNICATION (ASCo)

Course Name	Course Code	LTP	Credit	Semester
Advanced Screen Design	MAV309	2:0:2	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Students will get lot of opportunities based on the portfolio they have made using the acquired knowledge
CLO 2	they might get an opportunity to take part in design sprint too. Apart from this
CLO 3	get a part of works from a big project and they can work on contract or project basis.
CLO 4	--

B. SYLLABUS

Module 1:

Concept of UX
Trends in UX
Emerging Technologies in UX
Elements used in User Experience Design.
Introduction and Definition on 6 Stages of Design Process
Information Design and Data Visualization
Wireframing & Storyboarding

Through individual approach and expression in traditional and digital media
Students communicate by juxtaposing and sequencing imagery to develop a sense of artist-audience construct and consequence.
Basic of screen design
User interface design
Application for UID
A brief history of screen design

Module 2:

Direct manipulation of UID
Graphic system characteristics of graphical user interface
Online or web user interface
Process of screen design or user interface

Usability assessment in UI design

Module 3:

Design standard and style guide
UI elements
Navigation and flow
Color scheme for UID
Selection of color
Depth of levels and three dimensional appearance

EXAMINATION SCHEME:

Components	CT/Mid-term	Assignment	Project	Viva Voce	Attendance	EE
Weightage (%)	15	10	10	10	5	50

SUGGESTED READINGS:

1. The Essential Guide to User Interface by Wilbert O. Galitz
2. Exploring Adobe Illustrator CS6 (Adobe CS6) by Toni Toland and Annesa Hartman
3. Adobe Creative Suite 6 Design and Web Premium Digital Classroom by Jennifer Smith, Jeremy Osborn and AGI Creative Team

INTRODUCTORY MICROECONMICS

Course Code: ILB101

Credit Units : 04

Course Objective:

The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand. The course will attempt to relate theory to practice and try to instill in students the ability to apply basic microeconomic concepts to the understanding of everyday phenomena.

Module I

Introduction: Nature and scope of economics, Difference between micro and macroeconomics, economic problem: scarcity and choice; the concept of opportunity cost; the question of what to produce, how to produce and how to distribute output; positive versus normative analysis

Module-II

Demand and Supply Analysis: Meaning of demand /Supply, law of demand/supply, type of demand, Determinants of demand/supply, Movement and shift in demand/supply. Elasticity of demand/supply: concept, type (price elasticity, Income elasticity & cross elasticity), Measurement of elasticity of demand, determining factors. Application of the concept of elasticity of in business decision making

Module III:

Consumer Behaviour: Preferences and Utility approach; cardinal approach-the law of diminishing marginal utility and equi-marginal utility, Ordinal Approach- indifference curve analysis of consumer behaviour; Consumer's equilibrium (necessary and sufficient conditions), price consumption curve, income consumption curve and Engel curve, price effect, Income effect and substitution effect, Analysis of Giffen goods and Inferior goods, Consumer surplus, Derivation of demand curve from Indifference curve, Indifference curves as an analytical tool (cash subsidy v/s. kind subsidy). Revealed Preference theory

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Koutsoyiannis, A. (2005). Modern Microeconomics, 2nd Ed, Macmillan Press LTD
- Pindyck, R, and Rubinfeld, D. (2001).Microeconomics, 7th Ed, Prentice Hall.
- Ahuja, H.L. (2006). Modern Microeconomics: Theory and Application, 14th Ed, S. Chand Publication.
- Parkin, M. (2008). Microeconomics, 8th Ed, Pearson International.
- Baumol, William J. (2010). Economic Theory and Operations Analysis, 4th Ed, Prentice Hall & PHI Learning
- Varian, H.R. (2009). Intermediate Microeconomics: A Modern Approach, 9th Ed, Affiliated East-West Press
- Salvatore, D. (1991). Schaum's Outline of Theory and Problems of Microeconomic Theory, McGraw-Hill, International Edition

INTRODUCTORY MACROECONOMICS

Course Code: ILB 301

Credit Units : 04

Course Objective:

This course is to familiarize the students with the concepts of macro economics so that they can use these as inputs in decision making process. Emphasis would be laid on the understanding of key economic variables which influence the individual life and the business environment in which the business operations and strategies of the firm take place.

Course Contents:

Module I

National Income and its dimensions: GDP, GNP, NNP and NDP at market price and at factor cost, Measurements of national income: income method, expenditure method and value added method, problems in the estimation of national income, Concepts of real and nominal: income at current price and income at constant price

Module II

Meaning of inflation, deflation and stagflation, demand pull and cost push inflation, Measurement of Inflation: wholesale price index, consumer price index and GDP deflator, economic and social effects of inflation

Module III

Function of commercial bank and Central Bank, Money: Definition, function and Demand and supply of Money, Aggregate demand and Aggregate supply, Keynesian equilibrium output and price, Business Cycles, Unemployment

Module IV

Monetary Policy: meaning objectives and instruments of monetary policy, monetary policy development in India, Limitation of monetary policy. Fiscal Policy: meaning objectives and instruments of fiscal policy, fiscal policy and stabilization in the economy, Limitation of fiscal policy

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Souza, Errol D (2012). Macroeconomics, 2nd Ed, Pearson Education
- Schiller, B. R., & Gebhardt, K. (2019). *The Macro Economy Today*. New York: Mc Graw Hill education (India) Private Limited .
- Dornbusch, R., Fischer, S., & Startz, R. (2004). Macroeconomics, 9th Ed, McGraw-Hill
- Ahuja, H. L. (2006). Macro Economics, S. Chand & Company Ltd.
- Agarwal, V. (2010). Macroeconomics Theory and Policy, 1st Ed, Pearson India
- Mankiw, N. G. (2012). Macroeconomics, 8th Ed, Worth Publishers
- Barro, R. J. (1997). Macroeconomics, 5th Ed, The MIT Press
- Salvatore, D. (2012). Introduction to International Economics, 3rd Ed, John Wiley & Sons
- Branson, W. H. (1989). Macroeconomic Theory and Policy, 3rd Ed, HarperCollins India
- Shapiro, E. (1982). Macro Economic Analysis, 5th Edition, Tata McGraw Hill.
- Dwivedi, D. N. (2003). Macroeconomics Theory and Policy, 4th Ed, Tata McGraw Hill.

INTERMEDIATE MICROECONOMICS

Course Code: ILB 201

Credit Units : 04

Course Objective:

The objective of the course is to acquaint the students with various market structures within which a firm operates. The Course also deals with long-term decision making and market efficiency.

Course Contents

Module I

Production: Fixed and variable inputs, production function, total, average and marginal products, law of variable proportions, returns to scale. Isoquants, marginal rate of technical substitution, Cost of Production: Social and private costs of production, difference between economic and accounting costs, long run and short run costs of production, economies and diseconomies of scale and the shape of the long run and short run average cost, average variable cost and marginal cost and fixed cost. Concept of revenue: Total, Average and Marginal revenue

Module-II

Perfect Competition: Meaning, revenue of a competitive firm, marginal cost curve and firm's supply decision, firm's short run decision to shut down, firm's long run decision to exit or enter a market, Equilibrium of the firm and the industry in the short and the long run . The supply curve in competitive market: the short run supply curve with fixed number of firms, long run market supply with entry and exit. Difference between accounting and economic profits, producer surplus

Module III:

Monopoly Market: Features, Kinds of monopoly, reasons for monopoly, Monopolist's decision and equilibrium, Shifts in demand curve and the absence of the supply curve, Measurement of monopoly power and the rule of thumb for pricing, , Comparison of pure competition and monopoly. The social costs of monopoly power: deadweight loss, Price discrimination

Module IV:

Monopolistic Competition: Features, Price and output decision in short run and long run, Oligopoly: Features, Interdependence - Cournot's duopoly model, kinked demand model, collusive oligopoly: price leadership model and cartels

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Pindyck, R and Rubinfeld, D. (2001). Microeconomics, 7th edition, Prentice Hall.
- Ahuja, H.L. (2006). Modern Microeconomics: Theory and Application, 14th edition, S. Chand Publication.
- Koutsoyiannis, A. (2005). Modern Microeconomics, 2nd edition, Macmillan Press LTD
- Parkin, M. (2008). Microeconomics, 8th edition, Pearson International.
- Baumol, William J. (2010). Economic Theory and Operations Analysis, 4th edition, Prentice Hall UK & PHI Learning Private Ltd. New Delhi.
- Varian, H.R. (2009). Intermediate Microeconomics: A Modern Approach, 9th edition, Affiliated East-West Press, New Delhi.
- Salvatore, D. (1991). Schaum's Outline of Theory and Problems of Microeconomic Theory, McGraw-Hill, International Edition, New Delhi.

INDIAN ECONOMY

Course Code: ILB 501

Credit Units : 04

Course Objective:

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with emphasis on paradigm shifts and turning points.

Course Contents:

Module I

Indian economic growth, distribution and structural change: Comparative historical perspective Indian Economy at Independence, Planning and Economic Development, Economic Reforms, Growth and structural change, Fiscal and Budgetary developments.

Module II

Human Capital: Demography, health, and education; Population Growth and Economic Development, Population trends and Demographic Transition Theory, Microeconomic theory of fertility, National Population Policy, Demographic Dividend, Human Resource Development, Disparities and Divides, Health Indicators, Health care as Social responsibility, Discussion on NFHS, A Brief Overview on Education and Health Services in India:

Module III

Growth and Distribution: Poverty, inequality, unemployment, and policy interventions Poverty, Poverty lines in India, measuring poverty; Inequality meaning and trend, Unemployment, measuring unemployment, unemployment rate, Some characteristics of the Indian Labour market

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Edited by Uma Kapila. (2019). Indian economy since independence. Delhi: Academic Foundation.
- RaghbendraJha - Facets of India's Economy and Her Society Volume I - Current State and Future Prospects- Palgrave Macmillan UK (2018)
- Dutt, R., & Sundaram, K. Indian Economy. New Delhi: S. Chand & Co. Ltd (2016).
- Mishra, & Puri. Indian Economy. Bombay: Himalaya Publishing House (2015).

SUPPLEMENTARY READINGS

- Balakrishnan, P. (2007). The recovery of India: Economic growth in the Nehru era. *Economic and Political Weekly*, 42(45-46), 52-66.
- Bardhan, P. (2012). *Awakening giants, feet of clay: Assessing the economic rise of China and India*. Princeton University Press.

- Basu, K., Maertens, A. (2007). The pattern and causes of economic growth in India. *Oxford Review of Economic Policy*, 23, 143-167.
- Bhagwati, J., Panagariya, A. (2012). *India's tryst with destiny*, Collins Business.
- Centre for Sustainable Employment. (2018). *State of working India 2018*. AzimPremji University.
- Desai, S. (2015). Demographic dividend, dividend and debt. *The Indian Journal of Labour Economics*, 58, 217-232.
- Dreze, J., Khera, R. (2017). Recent social security initiatives in India, *World Development*, 98, 555-572.
- Dreze, J., Sen, A. (2013). *India: An uncertain glory*. Allen Lane.
- Joshi, V. (2016). *India's long road: The search for prosperity*. Allen Lane.
- Meenakshi, J. (2016). Trends and patterns in the triple burden of malnutrition in India. *Agricultural Economics*, 47, 115-134.
- Ministry of Finance. (2016). Universal basic income: A conversation with and within the mahatma. Chapter 9 in *Economic Survey*, 172-212.
- Panagariya, A., Mukim, M. (2014). A comprehensive analysis of poverty in India. *Asian Development Review*, 31, 1-52.
- Rangarajan Committee. (2014). *Report of the expert group to review the methodology for measurement of poverty*. Government of India.
- Rawal, V., Bansal, V., Bansal, P. (2019). Prevalence of undernourishment in Indian states: Explorations based on NSS 68th round data. *Economic and Political Weekly*, 54(15), 35-45.
- Rodgers, G. (2018). Inequality in the Indian growth regime. *Indian Journal of Human Development*, 12, 134-148.
- Thomas, J. (2014). India's labour market during the 2000s: An overview. In K. Ramaswamy (ed.): *Labour, employment and economic growth in India*. Cambridge University Press, 21-56.
- R Nagaraj (2013): "India's Economic Development", in AtulKohli and Prerna Singh edited, Routledge Handbook of Indian Politics, Routledge.
- Montek S Ahluwalia (2012): "Planning", in KaushikBasu and AnnemieMaertens edited, The New Oxford Companion to Economics in India, Oxford University Press
- Michael Lipton and Martin Ravallion (1987): "Poverty and Policy", HBDE Vol. 3B
- Dreze and Deaton (2009): "Food and Nutrition in India: Facts and Interpretations", *Economic and Political Weekly*, Vol. 44, No. 2, February 14.
- PulapreBalakrishnan (edited) (2011): *Economic reforms and growth in India: Essays from Economic and Political Weekly*, Hyderabad: Orient Blackswan.
- KaushikBasu and A. Maertens, eds, 2013, *The New Oxford Companion to Economics*, Oxford University Press.
- Edited by: RaghbendraJha (2008). *The Indian Economy Sixty Years After Independence*. London: Palgrave Macmillan

Course Name	Course Code	LTP	Credit	Semester
INDIAN ECONOMY	ILB 501	3:1:0	04	5

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explain the concepts of economic development and growth, poverty and inequality, persistence of inequality, growth strategy for India, and how they are measured.
CLO 2	Explain the planning process, objectives and relevance of five-year plans for India to analyze the policy decisions
CLO 3	Describe the international trade and its multiplier impact on Indian manufacturing sector.
CLO 4	Describe economic reforms and its relevance in Indian context. Also highlight the importance of FDI for make in India (current context)

- SYLLABUS**

Course Objective:

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with emphasis on paradigm shifts and turning points.

Course Contents:

Module I

Indian economic growth, distribution and structural change: Comparative historical perspective Indian Economy at Independence, Planning and Economic Development, Economic Reforms, Growth and structural change, Fiscal and Budgetary developments.

Module II

Human Capital: Demography, health, and education; Population Growth and Economic Development, Population trends and Demographic Transition Theory, Microeconomic theory of fertility, National Population Policy, Demographic Dividend, Human Resource Development, Disparities and Divides, Health Indicators, Health care as Social responsibility, Discussion on NFHS, A Brief Overview on Education and Health Services in India:

Module III

Growth and Distribution: Poverty, inequality, unemployment, and policy interventions Poverty, Poverty lines in India, measuring poverty; Inequality meaning and trend, Unemployment, measuring unemployment, unemployment rate, Some characteristics of the Indian Labour market

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Edited by Uma Kapila. (2019). Indian economy since independence. Delhi: Academic Foundation.

- RaghbendraJha - Facets of India's Economy and Her Society Volume I - Current State and Future Prospects- Palgrave Macmillan UK (2018)
- Dutt, R., & Sundaram, K. Indian Economy. New Delhi: S. Chand & Co. Ltd (2016).
- Mishra, & Puri. Indian Economy. Bombay: Himalaya Publishing House (2015).

SUPPLEMENTARY READINGS

- Balakrishnan, P. (2007). The recovery of India: Economic growth in the Nehru era. *Economic and Political Weekly*, 42(45-46), 52-66.
- Bardhan, P. (2012). *Awakening giants, feet of clay: Assessing the economic rise of China and India*. Princeton University Press.
- Basu, K., Maertens, A. (2007). The pattern and causes of economic growth in India. *Oxford Review of Economic Policy*, 23, 143-167.
- Bhagwati, J., Panagariya, A. (2012). *India's tryst with destiny*, Collins Business.
- Centre for Sustainable Employment. (2018). *State of working India 2018*. AzimPremji University.
- Desai, S. (2015). Demographic dividend, dividend and debt. *The Indian Journal of Labour Economics*, 58, 217-232.
- Dreze, J., Khera, R. (2017). Recent social security initiatives in India, *World Development*, 98, 555-572.
- Dreze, J., Sen, A. (2013). *India: An uncertain glory*. Allen Lane.
- Joshi, V. (2016). *India's long road: The search for prosperity*. Allen Lane.
- Meenakshi, J. (2016). Trends and patterns in the triple burden of malnutrition in India. *Agricultural Economics*, 47, 115-134.
- Ministry of Finance. (2016). Universal basic income: A conversation with and within the mahatma. Chapter 9 in *Economic Survey*, 172-212.
- Panagariya, A., Mukim, M. (2014). A comprehensive analysis of poverty in India. *Asian Development Review*, 31, 1-52.
- Rangarajan Committee. (2014). *Report of the expert group to review the methodology for measurement of poverty*. Government of India.
- Rawal, V., Bansal, V., Bansal, P. (2019). Prevalence of undernourishment in Indian states: Explorations based on NSS 68th round data. *Economic and Political Weekly*, 54(15), 35-45.
- Rodgers, G. (2018). Inequality in the Indian growth regime. *Indian Journal of Human Development*, 12, 134-148.
- Thomas, J. (2014). India's labour market during the 2000s: An overview. In K. Ramaswamy (ed.): *Labour, employment and economic growth in India*. Cambridge University Press, 21-56.

- R Nagaraj (2013): "India's Economic Development", in AtulKohli and Prerna Singh edited, Routledge Handbook of Indian Politics, Routledge.
- Montek S Ahluwalia (2012): "Planning", in KaushikBasu and AnnemieMaertens edited, The New Oxford Companion to Economics in India, Oxford University Press
- Michael Lipton and Martin Ravallion (1987): "Poverty and Policy", HBDE Vol. 3B
- Dreze and Deaton (2009): "Food and Nutrition in India: Facts and Interpretations", Economic and Political Weekly, Vol. 44, No. 2, February 14.
- PulapreBalakrishnan (edited) (2011): Economic reforms and growth in India: Essays from Economic and Political Weekly, Hyderabad: Orient Blackswan.
- KaushikBasu and A. Maertens, eds, 2013, The New Oxford Companion to Economics, Oxford University Press.
- Edited by: RaghendraJha (2008). The Indian Economy Sixty Years After Independence. London: Palgrave Macmillan

PUBLIC ECONOMICS

Course Code: ILB 401

Credit Units : 04

Course Objective:

Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution, and stabilisation. The subject encompasses a host of topics including public goods, market failures and externalities. The paper emphasises on the theory of public economics and also on the Indian public finances.

Course Outline

Module I- Role of Government in a mixed economy: Market Efficiency and Market Failure; Basic questions of Public Economics: When should the Government intervene in the economy? How might the Government intervene? What are the effects of alternative interventions? Efficiency and Equity – Social Choices; The Fiscal functions: an overview, Government failures.

Module II- Public Goods: The Different Kinds of Goods, Public Goods, The Free-Rider Problem, Some Important Public Goods, Public Choice, cost-benefit analysis.

Module III- Externalities and Property Rights: the problem and its solutions, taxes versus regulation, property rights, the Importance of Property Rights, the Coase theorem.

Module IV- Taxation: Taxes and Efficiency: Deadweight Losses, Administrative Burden; Marginal Tax Rates versus Average Tax Rates; Lump-Sum Taxes; Taxes and Equity: The Benefits Principle, The Ability-to-Pay Principle- Vertical Equity, Horizontal Equity; Tax Incidence and Tax Equity; The Trade-off between Equity and Efficiency; Cases: Should Income or Consumption Be Taxed? Who Pays the Corporate Income Tax?

Module V- Indian Public Finances: Overview of Indian Public Finances and Public Spending; Tax System in India, Trends, and Issues: What ails the Indian Tax System? Regional Inequality and Indirect Tax Reform in India; Deficits and Debt, Deficit financing, The FRBM Act; Fiscal federalism in India

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- J. Hindriks, G. Myles: *Intermediate Public Economics*, MIT Press, 2006.
- H. Rosen, T. Gayer: *Public Finance*, 9th ed., McGraw-Hill/Irwin, 2009.
- Joseph E. Stiglitz, *Economics of the Public Sector*, W.W. Norton & Company, 3rd edition, 2000.
- R.A. Musgrave and P.B. Musgrave, *Public Finance in Theory & Practice*, McGraw Hill Publications, 5th edition, 1989.
- Gruber, J. (2013). *Public Finance and Public Policy*. New York: Worth Publishers.
- John Cullis and Philip Jones, *Public Finance and Public Choice*, Oxford University Press, 1st edition, 1998.
- Harvey Rosen, *Public Finance*, McGraw Hill Publications, 7th edition, 2005.
- Mahesh Purohit, *Value Added Tax: Experiences of India and Other Countries*, 2007.
- KaushikBasu and A. Maertens (ed.), *The New Oxford Companion to Economics in India*, Oxford University Press, 2013.

- M.M. Sury, *Government Budgeting in India*, 1990.

Course Name	Course Code	LTP	Credit	Semester
PUBLIC ECONOMICS	ILB 401	3:1:0	04	4

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	The students would be able to know the concepts of development and growth economics.
CLO 2	The students would be able to relate concepts to activities and decisions made in policy.
CLO 3	The students would be able to analyze the impact of key factors on economy.

- SYLLABUS**

Course Objective:

Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution, and stabilisation. The subject encompasses a host of topics including public goods, market failures and externalities. The paper emphasises on the theory of public economics and also on the Indian public finances.

Course Outline

Module I- Role of Government in a mixed economy: Market Efficiency and Market Failure; Basic questions of Public Economics: When should the Government intervene in the economy? How might the Government intervene? What are the effects of alternative interventions? Efficiency and Equity – Social Choices; The Fiscal functions: an overview, Government failures.

Module II- Public Goods: The Different Kinds of Goods, Public Goods, The Free-Rider Problem, Some Important Public Goods, Public Choice, cost-benefit analysis.

Module III- Externalities and Property Rights: the problem and its solutions, taxes versus regulation, property rights, the Importance of Property Rights, the Coase theorem.

Module IV- Taxation: Taxes and Efficiency: Deadweight Losses, Administrative Burden; Marginal Tax Rates versus Average Tax Rates; Lump-Sum Taxes; Taxes and Equity: The Benefits Principle, The Ability-to-Pay Principle- Vertical Equity, Horizontal Equity; Tax Incidence and Tax Equity; The Trade-off between Equity and Efficiency; Cases: Should Income or Consumption Be Taxed? Who Pays the Corporate Income Tax?

Module V- Indian Public Finances: Overview of Indian Public Finances and Public Spending; Tax System in India, Trends, and Issues: What ails the Indian Tax System? Regional Inequality and Indirect Tax Reform in India; Deficits and Debt, Deficit financing, The FRBM Act; Fiscal federalism in India

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- J. Hindriks, G. Myles: *Intermediate Public Economics*, MIT Press, 2006.
- H. Rosen, T. Gayer: *Public Finance*, 9th ed., McGraw-Hill/Irwin, 2009.
- Joseph E. Stiglitz, *Economics of the Public Sector*, W.W. Norton & Company, 3rd edition, 2000.
- R.A. Musgrave and P.B. Musgrave, *Public Finance in Theory & Practice*, McGraw Hill Publications, 5th edition, 1989.
- Gruber, J. (2013). *Public Finance and Public Policy*. New York: Worth Publishers.
- John Cullis and Philip Jones, *Public Finance and Public Choice*, Oxford University Press, 1st edition, 1998.
- Harvey Rosen, *Public Finance*, McGraw Hill Publications, 7th edition, 2005.
- Mahesh Purohit, *Value Added Tax: Experiences of India and Other Countries*, 2007.
- Kaushik Basu and A. Maertens (ed.), *The New Oxford Companion to Economics in India*, Oxford University Press, 2013.
- M.M. Sury, *Government Budgeting in India*, 1990.

Paper- II: Science & Technology and National Security

Course Code : ILB 202D

Credit Units : 04

Course Objective/s:

The objective of this paper is to introduce the social science student to the developments in science and technology in reference to the national security. The changes in weapon systems and the method of warfare that come about due to innovations are sought to be introduced in this course.

Module I The Age of Gun Powder and the beginning of Modern Warfare up to Napoleonic Era : Small Arms, Artillery, Naval weapons, Strategy on Land and Sea, Evolution of Air Power.

Module II Revolution in Military Affairs and its impact on weapons and warfare : Emergence of New technologies, Revolution in small arms in low intensity conflicts, emergence of IED and electronic warfare, Information warfare

Module III Chemical and Biological Weapons, Nuclear weapons and Missile technology, Emerging new technologies in Airforce and Navy

Module IV New conventional weapons: Precision Guidance, Accuracy, Throw weight, Command and Control and Communications, Transfer of technology, Automation of weapon system and its impact on strategy.

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Deva, Y. (1996)). Dualuse of Information Technology (An Indo Centric perspective) , New Delhi, IDSA
- Hard, D. (1983). Nuclear Power in India, London, George Allen.
- Lal, A.K (2000). Space Warfare and Military Strategy. New Delhi. USI of India.
- Saxena K.M., *The Military System of India*, Sterling Publications, New Delhi.

Course Name	Course Code	LTP	Credit	Semester
Science & Technology and National Security	ILB 202D	3:1:0	4	2

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Overview of the Science & Technology and National Security
CLO 2	Understanding the reforms and revision in the judicial system
CLO 3	Studying the Social reforms of 19th century
CLO 4	Understanding the Constitutional Development

• **SYLLABUS**

Course Objective/s:

The objective of this paper is to introduce the social science student to the developments in science and technology in reference to the national security. The changes in weapon systems and the method of warfare that come about due to innovations are sought to be introduced in this course.

Module I The Age of Gun Powder and the beginning of Modern Warfare up to Napoleonic Era : Small Arma, Artillery, Naval weapons, Strategy on Land and Sea, Evolution of Air Power.

Module II Revolution in Military Affairs and its impact on weapons and warfare : Emergence of New technologies, Revolution in small arms in low intensity conflicts, emergence of IED and electronic warfare, Information warfare

Module III Chemical and Biological Weapons, Nuclear weapons and Missile technology, Emerging new technologies in Airforce and Navy

Module IV New conventional weapons: Precision Guidance, Accuracy, Throw weight, Command and Control and Communications, Transfer of technology, Automation of weapon system and its impact on strategy.

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Deva, Y. (1996)). Dualouse of Information Technology (An Indo Centric perspective) , New Delhi, IDSA
- Hard, D. (1983). Nuclear Power in India, London, George Allen.
- Lal, A.K (2000). Space Warfare and Military Strategy. New Delhi. USI of India.
- Saxena K.M., *The Military System of India*, Sterling Publications, New Delhi.

Defence and Strategic Studies (New Course as per BCI-Optional)

Paper-I : India's Defence Policy and Organisation

Course Code : ILB 102D

Credit Units : 04

Course Objective/s:

The course intends to enhance the knowledge and skills of students with India's defence policy and organizational structure.

Module I Defence and Strategic Studies: Assumptions and Approaches; National Security-Meaning, objectives and Scope; India's Defence Policy; Reconstruction of Indian Armed forces after partition. India's defence policy in post-Independence period. Defence policy of India: 1947 – 1971. Defence policy of India: 1971 onwards. India China boundary disputes and Indo-China relations. Indo- Pak relations in light of contemporary scenario.

Module II Higher defence organization in India. Powers of President in relation to Armed forces. Parliament and Armed forces. Defence committee of Cabinet. Ministry of Defence. National Security Council.

Module III Organization of Management of Indian Defence/Armed Forces, National Security (The Border Security Force, The Special Frontier Force (SFF), The Assam Rifles, The Indo-Tibetan Border Police Force, The National Security Guard, The SashastraSeemaBal, The Central Reserve Police Force, The Central Industrial Security Force, The National Investing Agency, The Defence Security Corps), National Agencies Research and Analysis Wing (RAW), Intelligence Bureau (I.B.) and Central Bureau of Investigation (C.B.I.),.

Module IV India's Nuclear and Missile Programme, Structure of Indian Armed forces : Army, Navy, Air Force. Modernization of Indian Armed forces and overall defence preparedness.

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Basu, Major D K, *Defence and Strategic Studies*, Vol. II, (Art of War & Mechanism of Warfare), E. T. Publication, Berhampore, Murshidabad, (2015).
- Basu, Major D K, *Defence and Strategic Studies*, Vol. III, (Military Geography & History), E. T. Publication, Berhampore, Murshidabad, (2014).
- Rao, P.V.R. Indian Defence Policy and Organisation since Independence.
- Saigal, J.R. Un-fought war of 1962
- Shah, A. India's Defence and Foreign Policy

- Subrahmanyam, K. India's Security Perspectives
- Venkateswar, A.L. Defence Organisation in India

Course Name	Course Code	LTP	Credit	Semester
India's Defence Policy and Organisation	ILB 102D	3:1:0	4	1

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Have an insight and awareness about the Ancient, Medieval and Modern Indian History.
CLO 2	Understand the overview of the emergence of administrative system of India.
CLO 3	Evaluate and analyze the freedom struggle movement.

• **B. SYLLABUS**

Course Objective/s:

The course intends to enhance the knowledge and skills of students with India's defence policy and organizational structure.

Module I Defence and Strategic Studies: Assumptions and Approaches; National Security-Meaning, objectives and Scope; India's Defence Policy; Reconstruction of Indian Armed forces after partition. India's defence policy in post-Independence period. Defence policy of India: 1947 – 1971. Defence policy of India: 1971 onwards. India China boundary disputes and Indo-China relations. Indo- Pak relations in light of contemporary scenario.

Module II Higher defence organization in India. Powers of President in relation to Armed forces. Parliament and Armed forces. Defence committee of Cabinet. Ministry of Defence. National Security Council.

Module III Organization of Management of Indian Defence/Armed Forces, National Security (The Border Security Force, The Special Frontier Force (SFF), The Assam Rifles, The Indo-Tibetan Boarder Police Force, The National Security Guard, The SashastraSeemaBal, The Central Reserve Police Force, The Central Industrial Security Force, The National Investing Agency, The Defence Security Corps), National Agencies Research and Analysis Wing (RAW), Intelligence Bureau (I.B.) and Central Bureau of Investigation (C.B.I).

Module IV India's Nuclear and Missile Programme, Structure of Indian Armed forces : Army, Navy, Air Force. Modernization of Indian Armed forces and overall defence preparedness.

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Basu, Major D K, *Defence and Strategic Studies*, Vol. II, (Art of War & Mechanism of Warfare), E. T. Publication, Berhampore, Murshidabad, (2015).
- Basu, Major D K, *Defence and Strategic Studies*, Vol. III, (Military Geography & History), E. T. Publication, Berhampore, Murshidabad, (2014).
- Rao, P.V.R. Indian Defence Policy and Organisation since Independence.
- Saigal, J.R. Un-fought war of 1962
- Shah, A. India's Defence and Foreign Policy
- Subrahmanyam, K. India's Security Perspectives
- Venkateswar, A.L. Defence Organisation in India

Fundamentals of Moot Court – I

Course Code: LLB 204

Credit Units : 01

Objective: To help students develop Moot Court skills, Public speaking and analytical skills.

Module I: Indian Court Structure & Procedure

Hierarchy of Indian Courts: Jurisdiction, Powers. How to file a Civil Suit: Meaning of Plaintiff, Written Statement, Judicial, Non-Judicial Stamp, Affidavit, Cause of Action, Jurisdiction, and Limitation. Procedure to lodge FIR/Complaint: Meaning of Summon, Warrant, Charge sheet/Police Report, Final Report, Cognizance of Offence, Jurisdiction. Provisions Relating to Appeal: Civil Appeal & Criminal Appeal. [E Courts Services and procedure of E-filing](#)

Module II: Fundamentals of Moot Court

Mooting: Definition, Origin, Importance Difference between: Moot and mock trial, Moot court from a real court, Mooting from participating in tutorials and seminars

Module III: Moot Court Skills

Methods of Public Speaking, Meaning of Persuasive Advocacy, Forms of Communication, Research Skills

Module IV: Drafting Exercises:

- [Plaint/FIR, Written Statement,](#)
- [Drafting of summons, Legal notices](#)
- [Drafting of writ petition](#)
- [Drafting of appeals](#)
- [Drafting of SLP](#)

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Dr.KailashRai: Moot Court Pre-Trial Preparation and Participation in Trial Proceedings.
- Mishra: Moot Court Pre-Trial Preparation and Participation in Trial Proceedings.
- NRM Menon, Clinical Legal Education, Pre.Law Education Series, EBC
- AmitaDanda: Moot Court for Interactive Legal Education, Gogia Law Agency, Hyderabad.
- Blackstone's: Books of Moots, Oxford University Press.
- [Lectures on Drafting and Pleading , conveyance by Dr.Regasurya Rao.](#)
- <https://efiling.ecourts.gov.in/assets/downloads/efiling-User-manual.pdf>

Paper-III : War and Peace in Modern Age

Course Code : ILB 302D

Credit Units : 04

Course Objective/s:

The course intends to make the students acquainted with the advancements in the field of war and peace studies in contemporary global scenario,

Module I Collective Security, U.N. role in maintenance of peace and security; Roots of Conflicts in World Politics, Origin of War: World War I and II. Cold War and struggle against the weapons of mass destruction (WMD)

Module II The incident of September 11, 2001 and the campaign against terrorism, The invasion and occupation of Iraq,

Module III Alternative to Unilateral Pre-emption, Role of NATO and UNO in world peace, Economic warfare in modern times, Humanitarian Laws

Module IV Media and War, Social networking and uprising, Rise of Regionalism and world politics, Problem of refugees, Migration of population in Border area and border security.

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Pagou, A.C. Political Economy of War
- Hitcha and Mckean. The Economics of Defence in Nuclear Age
- Hard, D. (1983). Nuclear Power in India, London, George Allen.
- Khanna, V.N., *International Relations*, Vikash Publishing House Pvt. Ltd., New Delhi (2007).
- Vohra, D.C., *India's Diplomacy in the Third World*, Vikash Publications New Delhi. (1980).
- Sharma, M.P., *India's Boundary and Territorial Disputes*, Vikash Publications, New Delhi. (1971).
- Basu and A. Kohli, *Community Conflicts and the State in India*, Cambridge: Cambridge University Press, 2001.

Course Name	Course Code	LTP	Credit	Semester
War and Peace in Modern Age	ILB 302D	3:1:0	4	3

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Overview of the political conditions and scenario of Europe in Modern times
CLO 2	<i>Understand causes and consequences of various revolutions.</i>
CLO 3	<i>Examine the causes and consequences of World Wars</i>

• **SYLLABUS**

Course Objective/s:

The course intends to make the students acquainted with the advancements in the field of war and peace studies in contemporary global scenario,

Module I Collective Security, U.N. role in maintenance of peace and security; Roots of Conflicts in World Politics, Origin of War: World War I and II. Cold War and struggle against the weapons of mass destruction (WMD)

Module II The incident of September 11, 2001 and the campaign against terrorism, The invasion and occupation of Iraq,

Module III Alternative to Unilateral Pre-emption, Role of NATO and UNO in world peace, Economic warfare in modern times, Humanitarian Laws

Module IV Media and War, Social networking and uprising, Rise of Regionalism and world politics, Problem of refugees, Migration of population in Border area and border security

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Pagou, A.C. Political Economy of War
- Hitcha and Mckean. The Economics of Defence in Nuclear Age
- Hard, D. (1983). Nuclear Power in India, London, George Allen.

- Khanna, V.N., *International Relations*, Vikash Publishing House Pvt. Ltd., New Delhi (2007).
- Vohra, D.C., *India's Diplomacy in the Third World*, Vikash Publications New Delhi. (1980).
- Sharma, M.P., *India's Boundary and Territorial Disputes*, Vikash Publications, New Delhi. (1971).
- Basu and A. Kohli, *Community Conflicts and the State in India*, Cambridge: Cambridge University Press, 2001.

Course Name	Course Code	LTP	Credit	Semester
Local Self Government in India (Optional Paper)	LLB 504	3:1:0	04	5

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Analyse and evaluate the nature and meaning of the different types of Government i.e. federal Government, parliament form of government and local self Government.
CLO 2	Analysis the constitution, composition, powers, functions, duties of Gram Panchayat and their importance in democratic country.
CLO 3	Analysis the constitution, composition, powers, functions, duties of Urban Panchayat and their importance in democratic country.
CLO 4	Students will able to know about the election process of Panchayat and litigation in election matter.

• **SYLLABUS**

Course Objective

This programme structures multi-dimensional and inter-sectoral knowledgebase for strengthening local government institutions and development organisations. The curriculum enables students to understand and analyse the dynamics of decentralized governance, and, equip them with skills and practical exposure in different cross-cutting areas. On successful completion of the course, the student will be able to: explain the perspectives of different Indian leaders on local government, understand the contributions of various committees on local government, describe the features and provisions of Constitutional Amendment Acts, realise the significance of Grama Sabha.

Module – I: Evolution of Rural Government in India

Nature and Importance of Local Government, Gram Swaraj: the Gandhian concept: Concept of Sarvodaya, Royal Commission upon Decentralization (1909) – Montagu-Chelmsford Report on Local Self Government (1918) - Govt. of India Resolution (1918) Government of India Act (1919) – Indian Statutory Commission on Local Self Government(1928) Diarchy and its Consequences - Government of India Act (1935) - Provincial Autonomy and its consequences.

Module II : Local Self-Government : Constitutional Recognition

Constituent Assembly Debate, Community Development Programme (1952) - Major Committee Reports: Balwant Rai Mehta (1957), RR Diwakar (1964), Asoka Mehta (1978), PK Thungon (1984) – CH Hanumantha Rao (1984), GVK Rao Committee (1985), LM Singhvi (1986) - 64th Constitutional Amendment Bill (1989) – ML Dantwala Committee Report (1998) - 73rd & 74th Constitutional Amendment.

Module III: Rural local and Urban local self government

Constitution and Composition of Organization of Rural local self government, Powers and functions of Rural local self government, Urban local self government: Meaning and significant, Organization of Urban local self government, Powers and function of Urban local self government, Women's reservation in local self government and its effects, Finance and Local self Government.

Examination Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Bates, Crispin, The Development of Panchayati Raj in India.
- Friedrich, Carl J, Constitutional Government and Democracy, Ch XII
- Kashyap, Khanna and Kueck (Eds), Reviewing the Constitution? Ch 11, 12 and 13
- Tribe, L H., American Constitutional Law, Ch 6
- Turpin, Colin, British Government and the Constitution, Ch 4, p. 302 – 319.
- 73rd and 74th Constitutional Amendment and Eleventh Schedule
- Planning Commission of India (planningcommission.nic.in Ch 10)
- Agriculture and Irrigation, Dept. of Rural Development, August 1978)
- Rhodes, Binder and Rockman (Eds), The Oxford Handbook of Political Institutions, Ch 25
- State of Punjab v Tehal Singh, Decided on 7.1.2007

Local Self Government in India (Optional Paper)

Course Code: LLB 504

Credit Units: 04

Course Objective

This programme structures multi-dimensional and inter-sectoral knowledgebase for strengthening local government institutions and development organisations. The curriculum enables students to understand and analyse the dynamics of decentralized governance, and, equip them with skills and practical exposure in different cross-cutting areas. On successful completion of the course, the student will be able to: explain the perspectives of different Indian leaders on local government, understand the contributions of various committees on local government, describe the features and provisions of Constitutional Amendment Acts, realise the significance of Grama Sabha.

Module – I: Evolution of Rural Government in India

Nature and Importance of Local Government, Gram Swaraj: the Gandhian concept: Concept of Sarvodaya, Royal Commission upon Decentralization (1909) – Montagu-Chelmsford Report on Local Self Government (1918) - Govt. of India Resolution (1918) Government of India Act (1919) – Indian Statutory Commission on Local Self Government(1928) Diarchy and its Consequences - Government of India Act (1935) - Provincial Autonomy and its consequences.

Module II : Local Self-Government : Constitutional Recognition

Constituent Assembly Debate, Community Development Programme (1952) - Major Committee Reports: Balwant Rai Mehta (1957), RR Diwakar (1964), Asoka Mehta (1978), PK Thungon (1984) – CH Hanumantha Rao (1984), GVK Rao Committee (1985), LM Singhvi (1986) - 64th Constitutional Amendment Bill (1989) – ML Dantwala Committee Report (1998) - 73rd & 74th Constitutional Amendment.

Module III: Rural local and Urban local self government

Constitution and Composition of Organization of Rural local self government, Powers and functions of Rural local self government, Urban local self government: Meaning and significant, Organization of Urban local self government, Powers and function of Urban local self government, Women's reservation in local self government and its effects, Finance and Local self Government..

Examination Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text & References:

- Bates, Crispin, The Development of Panchayati Raj in India.
- Friedrich, Carl J, Constitutional Government and Democracy, Ch XII
- Kashyap, Khanna and Kueck (Eds), Reviewing the Constitution? Ch 11, 12 and 13
- Tribe, L H., American Constitutional Law, Ch 6
- Turpin, Colin, British Government and the Constitution, Ch 4, p. 302 – 319.
- 73rd and 74th Constitutional Amendment and Eleventh Schedule
- Planning Commission of India (planingcommission.nic.in Ch 10)
- Agriculture and Irrigation, Dept. of Rural Development, August 1978)
- Rhodes, Binder and Rockman (Eds), The Oxford Handbook of Political Institutions, Ch 25
- State of Punjab v Tehal Singh, Decided on 7.1.2007

Agriculture & Law (Optional Paper)

Course Code: LLB 505

CreditUnits: 04

Course Objective:

The object of the course is to help the students to acquire an overall knowledge of the changing scenario in Agriculture & Law during recent years. The course will develop the understanding of the various legal provisions regarding agriculture finance, land reforms, regulations in agricultural activities, agricultural related IPR issues as well as some international Organizations/Institutions that are fundamental to agriculture. It also emphasizes on a holistic approach towards the overall development of agriculture and its allied sectors in India.

Course Contents:

Module I: Introduction

Indian Agriculture : Historical Background, Gandhian concept of agriculture, Indian agriculture during British regime. Farmers movements, Constitutional provisions relating to agriculture, Abolition of Zamindari systems and agrarian reforms in India, National Agricultural Policy, Five years plan relating to agriculture, Agriculture and Rural Development-National Initiatives: National Agricultural development programme 2007, National Policy for Farmers, 2007

Module II: Laws Relating to Agriculture:

Fertilizer Control Order, The Insecticides Act,1968, The Seeds Act,1966, Fertilizer Control Order 1985, National Water Policy, 2002 , National Food Security Act, 2013, Taxation of Agricultural Income, Protection of Land Varieties and Farmers Rights Act,2001, The Traditional Rights of Farmers- Geographical indication of Goods Act,1999. Plant Quarantine Rules-AGMARK

Module III: Socio-Agricultural Legislations:

Agricultural Marketing, Agricultural Credit Policy, Agricultural Co-operative Societies. Fair Price Policy, Contract farming, The status of farmers aftermath of GATT/WTO, Food & Agricultural Organization (FAO), World Trade Organization (WTO)

Module IV: Agriculture and Development:

Role of CIAR (Council of Indian Agriculture Research); Conserving plant Genetic Resources in India, Issues relating to GMOs(Genetically ModifiedOrganisms), Agriculture & Technology, Promotion of Traditional Crops (like millets) &natural farming. Agricultural Insurance, Agricultural Banks :Role of NABARD, Role ofLSGs (Panchayath Raj Institutions)

Module V: Intellectual Property and Agriculture

Intellectual Property Rights in Agriculture including Agricultural Patents, Biodiversity& Genetically Modified Crops, Bio-piracy, The Protection of Plant Varieties and Farmers' Right Act, 2003, TRIPS Agreement, 1995

Examination Scheme:

Components	A	CT	CA	EE
Weightage (%)	5	15	30	50

Text Books & Reference Books:

- SukhbirBhatnagar-Agricultural Law, Mittal Publishers.
- A.K.Vyas and Rishi Raj-Introduction to Agriculture
- S.S.Acharya and N.L.Agarwal-Agricultural Marketing in India
- S.R.Reddy-Principles of Agronomy
- R.L.Arya,SonamArya,RenaArya, Janardhan Kumar-Fundamentals of Agriculture
- Agricultural Trade Reform and the Doha Development Agenda, Author(s): Martin, Will--Editor

- Agriculture for Development: World Development Report, World Bank, 2008

HUMAN RIGHTS LAW AND PRACTICES (Constitutional Law Hons. Paper-I)

Course Code – LLB 603 CP

Credits - 4

Course Objective:

The main thrust of this course shall be to acquaint the students on the developments of Human Rights Law and the working of the different Human Rights Institutions.

Course Contents:

Module I: Origin and Development of Human Rights

History, Evolution, Growth.

Module II: United Nations and Human Rights

United Nations Charter, UDHR (Universal Declaration of Human Rights), International Covenants: Civil and Political Rights, Economic, Social and Cultural Rights; Human Rights and Vulnerable Sections: Children, Women, Disabled Persons, Racial Minorities; Enforcement Mechanism under Human Rights Treaties: Human Rights Council, Mechanisms under Human Rights Treaties.

Module III: Collective Rights

Right to Development, Environment, Peace and Security.

Module IV: Regional Approaches to Human Rights

European Convention on Human Rights, 1950 ;Africa Charter on Human Rights and People’s Rights, 1981 ;American Convention on Human Rights, 1969.

Module V: Human Rights Enforcement in India

Constitution of India: Fundamental Rights ,Directive Principles; Role of Judiciary; National Institutions: NHRC ,NCW, etc.

Module VI: Drafting Exercises

- Petitions to National Human Rights Commission & Procedures
- Petitions to National Commission for Women & Procedures
- Petitions to National Commission for Schedule Caste and National Commission for Schedule Tribe & Procedures

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References

- Rama Jois, Human rights in Ancient India, 1997.
- U. Baxi, The Right to be Humane, 1986.
- F. Kazmi, Human Rights, 1987.
- J. Sawrup, Human Rights and Fundamental Freedom, 1975.
- Nagendra Singh, Human Rights and International Cooperation, 1969.
- S.C. Khare, Human Rights and United Nations.
- A.B. Kalaish, Human Rights in International Law, 1986.
- Menon (Ed.), Human Right in International Law, 1985.
- A.B. Robertson (Ed.), Human Rights in National and International Law.
- E. Lauterpacht, International Law and Human Rights, 1968.
- Sohn Lavis & Burgenthal, International Protection of Human Rights, 1973.

- K. L. Bhatia, Concept of Human Rights in Ancient India, Punjab University Law review, 2000.
- N.K. Padhi, Protection of Human Rights and National Human Rights Commission Reflections, Gyan Publishing House 2007
- Arun Ray, National Human Rights Commission of India: Formation, Functioning and Future Prospects, Vol.2, Atlantic, 2004

Course Name	Course Code	LTP	Credit	Semester
HUMAN RIGHTS LAW AND PRACTICES (Constitutional Law Hons. Paper-I)	LLB 603 CP	3:1:0	04	6

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Introduction and legal information on Human Rights Law and their use in different industries.
CLO 2	Acquire skills of Human Rights Law and its legal handling
CLO 3	Capable of the advanced legal application of law in emerging areas

• **SYLLABUS**

Course Objective:

The main thrust of this course shall be to acquaint the students on the developments of Human Rights Law and the working of the different Human Rights Institutions.

Course Contents:

Module I: Origin and Development of Human Rights

History, Evolution, Growth.

Module II: United Nations and Human Rights

United Nations Charter, UDHR (Universal Declaration of Human Rights), International Covenants: Civil and Political Rights, Economic, Social and Cultural Rights; Human Rights and Vulnerable Sections: Children, Women, Disabled Persons, Racial Minorities; Enforcement Mechanism under Human Rights Treaties: Human Rights Council, Mechanisms under Human Rights Treaties.

Module III: Collective Rights

Right to Development, Environment, Peace and Security.

Module IV: Regional Approaches to Human Rights

European Convention on Human Rights, 1950 ;Africa Charter on Human Rights and People's Rights, 1981 ;American Convention on Human Rights, 1969.

Module V: Human Rights Enforcement in India

Constitution of India: Fundamental Rights ,Directive Principles; Role of Judiciary; National Institutions: NHRC ,NCW, etc

Module VI: Drafting Exercises

- Petitions to National Human Rights Commission & Procedures
- Petitions to National Commission for Women & Procedures
- Petitions to National Commission for Schedule Caste and National Commission for Schedule Tribe & Procedures

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References

- Rama Jois, Human rights in Ancient India, 1997.
- U. Baxi, The Right to be Humane, 1986.
- F. Kazmi, Human Rights, 1987.
- J. Sawrup, Human Rights and Fundamental Freedom, 1975.
- Nagendra Singh, Human Rights and International Cooperation, 1969.
- S.C. Khare, Human Rights and United Nations.
- A.B. Kalaish, Human Rights in International Law, 1986.
- Menon (Ed.), Human Right in International Law, 1985.
- A.B. Robertson (Ed.), Human Rights in National and International Law.
- E. Lauterpacht, International Law and Human Rights, 1968.
- Sohn Lavis & Burgenthal, International Protection of Human Rights, 1973.
- K. L. Bhatia, Concept of Human Rights in Ancient India, Punjab University Law review, 2000.
- N.K. Padhi, Protection of Human Rights and National Human Rights Commission Reflections, Gyan Publishing House 2007
- Arun Ray, National Human Rights Commission of India: Formation, Functioning and Future Prospects, Vol.2, Atlantic, 2004

Law and Economics (Corporate Law Hons. Paper-I)

Course Code – LLB 603 CG

Credits - 4

Course Objective:

This course will use economic analysis to illuminate the structure of law in the fields of property law, tort law, contract law, and criminal law.

Course Contents:

Module I: Introduction to Law and Economics

An introduction to Law and Economics, Brief review of micro economic theory

Module II: Economic Theory of Tort Law

Comparison of Tort v. Contract Law, Breach of Duty, Proximate Cause of Harm, Hand Rule (Cost-benefit analysis), Economic Theory of Tort Law: Product Liability

Module III: Economic Theory of Contract Law

Legally enforceable contracts, Principal-Agent Problem (Introduction to Game Theory), Principal-Agent Problem (Introduction to Game Theory), Rule of Hadley, Economic Theory of Contract law, Judicial Approach and Economic efficiency.

Module IV: Economic Theory of Crime

Elements of a Crime, Comparison of Criminal v. Tort Law, Economic analysis of Crime and Criminal.

Module V: Economic theory of Property Rights

Ownership: Private, Public, Possession, Intellectual property rights, Economic Theory of Property.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Robert Cooter, Thomas ulem: Law and Economics
- Gopal Krishnan: Law and Economics
- A. Mitchell Polinsky: Handbook of Law and Economics

Patent Law (IPR Hons. Paper-I)

Course Code: LLB 603 IPR

Credit Units: 04

Course Objective:

The course is designed to provide comprehensive knowledge to the students regarding comparative Indian position of the Patent Law

Course Content:

Module I: Introduction

Intellectual Property, Concept and Philosophy, Need for Private Rights versus Public Interests, Advantages and Disadvantages of IPR.

Module II: Patent Acquisition

Development of patent law, Rationale for patent protection, Nature and definition, Types of patentable subject matter, Patentability criteria, non-patentable inventions, Rights of patentee, Procedure for granting a patent, Grounds for opposition, Transfer of patent rights, Compulsory Licenses, Acquisition, Surrender, Revocation, restoration, Patent infringement and remedies,

Module III: Patent Regulation Authorities

Official Machinery, Controller, Powers and Functions

Module IV:

Bio patents, Patent in pharmaceutical industry, software patents,

Module V:

Patent cooperation treaty, Paris convention. Worldwide patent,

Module VI: Plant Varieties Protection Act, 2001

Objectives, Rationale, Registry, Official machinery, registration, Criteria of fulfillment Exclusions, Benefit sharing, Farmers rights, CMR, compulsory license, RF, Appellate tribunal, Infringement, offences and penalties.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- D.P. Mittal (Taxman Publication), Indian Patents Law and Procedure
- B.L. Wadera, Patents, trademarks, copyright, Designs and Geographical Judications.
- P. Narayanan (Eastern Law House), Intellectual Property Law
- W. Cornish (Universal Publication), Intellectual Property Law
- R.K. Nagarjan, Intellectual Property Law
- Ganguli (Tata Megraw), Intellectual Property Rights

General Principals of GATT and World Trade Organization Law (International Trade law- Hon. Paper –I)

Course Code: LLB 603 ITL

Credit Units: 04

Course Objective:

International trade has grown progressively over the years. So has the understanding on the laws relating to international trade. Marrakesh Agreement (15th April 1994) finally established a full fledged legal regime on International Trade as evidenced in GATT and other agreements and other understandings. The agreement also established WTO as an international organization to oversee the working of the GATT law. Therefore it is necessary to study the GATT law on international trade. It is desirable to study the institutional structure and working of WTO as an organization. WTO umbrella has covered subjects apart from trade in goods, like services, intellectual property and investment; it will therefore be proper to study these topics also. The paper also deals with studying WTO structure, its working and dispute settlement mechanism.

Course Content:

Module I:

History of International Trade Law, Theories of Trading system World Trade Organization: Its birth and background, Structure of WTO, Aim and Objective, Uruguay and Doha Round.

Module II:

Basic Principles of GATT and WTO: MFN treatment, Origin of MFN, Definition and Scope of MFN, National Treatment Rule, Exceptions to MFN and National Treatment.
Case Study of EC Banana Case

Module III:

Dispute Settlement under GATT, Dispute settlement under WTO, Dispute Settlement Body, Decision Making in the DSB and its enforcement.
Case Study EC Hormones Case, EC Asbestos Case

Module IV:

General agreement on Trade in Services (GATS): The basic Agreement, Definition, Scope, General Obligations, WTO Commitment on Services, Sectors of Commitments, Market Access to Services.

Module V:

Trade Related Intellectual property Rights (TRIPS), General Provisions, Scope and Enforcement of Trips.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Peter Ven Den Borsch, Law of WTO
- Jackson, John, H. (1997) Law of International Trading System, The MIT Press.
- Jackson, John, H. (1997) World Trade and Law of GATT, The MIT Press.
- Koul, A.K. (2001) World Trade Organization, Satayam Publication.

CRIMINOLOGY

Criminal Law Hon. Paper-I

Course Code: LLB 603 CRL

Course Credit: 04

Course Objective:

The course is designed to acquaint students with advances made by sociology and psychiatry in understanding human behavior particularly, deviant behavior. In the past criminality was confined to acts of violence or unlawful acts of commission or omission. Thus the purpose behind criminality in the past was to do acts of revenge or to it for personal gain. The concept of crime has changed considerably in recent years. Unscrupulous members of society to indulge in anti-social behavior with impunity have devised sophisticated methods. Emphasis will be laid on understanding the weak and strong points of the existing system in order to determine whether it can meet the challenge and carry new burdens. The advances made in this respect in developed countries will be discussed to create awareness among the students of the problems in the context of Indian condition.

Course Contents:

Module 1: Criminology and Crime

1. Criminology: Origin, Nature, Scope and Its Importance, Inter-relation between criminology and criminal law, Criminology as a social science, relations with other social sciences.
2. Concept of Crime: Origin, Definition of Crime, Classification, Elements of Crime, Development of Criminal Law in India.

Module II: Schools of Criminology:

1. Schools of Criminology: Demonology, Classical, Neo-Classical Schools, Positive School, Cartographic School, Biological and Constitutional School of Criminology- Lombrosian and Others (heredity and mental retardation as causes of crime).
2. Multiple Factors: Heredity, Religion, Ecological, Economic, Psychological and Sociological factors.

Module III: Theories of Criminology

1. Social Structural Theories: Anomie theory, Cultural Transmission theory, Conflicting Theory, Social disorganization theory.
2. Social Process Theory: Sutherland's Differential Association Theory, Differential Identification theory, and Differential opportunity theory, Labeling Theory.
3. Psychological Theories: Psycho analysis and criminality, Personality and crime, Intelligence and crime, Anti-social personality disorder, Integrated Theories.

Module IV- Causes of Criminal Behavior

1. Environmental, home and community influence, urban and rural crime.
2. Broken homes, the effect of internet, TV videos, narcotics and alcohol.
3. Caste and community tensions: caste wars and communal riots-their causes and demoralizing effects, atrocities against schedule cadres.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Ahmed Siddiqui, *Criminology: Problems and Perspectives*, Eastern Book Co. Lucknow
- Larry Siegel, *Criminology*, Wardsworth Pub., Australia 1999
- Maguire, Morgan and Reiner, *The Oxford Handbook of Criminology*, Oxford University Press

- N. V. Pranjapae, *Criminology and Penology*, Central Law Publications, Allahabad
- Sutherland & Cressey, *The Principles of Criminology* 1974, Philadelphia: Lippincott.
- V. Prashanth, S Balaji, "Presumption of Innocence in Criminal Law", *Criminal Law J.* Vol. 106, (Sep.) 2000, J-129.
- Conklin, J.E. (2001), *Criminology*, Macmillan Publishing Company.
- George Vold and Thomas J. Bernard (1986), *Theoretical Criminology*, New York: Oxford University Press.
- Walter C. Reckless (1967), *The Crime Problem*, Bombay: Vakols, Feffner & Simson P. Ltd.
- Titus Reid (1982), *Crime & Criminology*, New York: Holt, Rinehard & Winstoon.
- Richard Quinney and John Wildeman (1977), *The Problem of Crime - A critical introduction to criminology*, London: Harper & Row.
- Carson R.C. and James N. Butcher (1992), *Abnormal psychology and Modern Life*, Harper Collinns Publisher Inc.
- Fathali M. Hoggaddam (1998) *Social Psychology: Exploring Universals Across Cultures*, New York: W.H.Freeman and Company.
- Garrett H.E. (1961) *General Psychology*, New Delhi: Eurasia Publishing House Ltd.
- W.A. Wonger, *Criminality and Economic Conditions*

Course Name	Course Code	LTP	Credit	Semester
CRIMINOLOGY Criminal Law Hon. Paper-I	LLB 603 CRL	3:1:0	04	6

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Study the meaning, objects, and importance of criminology and criminal justice system in India
CLO 2	Understand the general principles and theories of criminology evolved at national and international level.
CLO 3	Identify the basic causes of criminal behaviour and possible solutions
CLO 4	To analyse the role of courts towards criminal justice system.

• **SYLLABUS**

Course Objective:

The course is designed to acquaint students with advances made by sociology and psychiatry in understanding human behavior particularly, deviant behavior. In the past criminality was confined to acts of violence or unlawful acts of commission or omission. Thus the purpose behind criminality in the past was to do acts of revenge or to it for personal gain. The concept of crime has changed considerably in recent years. Unscrupulous members of society to indulge in anti-social behavior with impunity have devised sophisticated methods. Emphasis will be laid on understanding the weak and strong points of the existing system in order to determine whether it can meet the challenge and carry new burdens. The advances made in this respect in developed countries will be discussed to create awareness among the students of the problems in the context of Indian condition.

Course Contents:

Module 1: Criminology and Crime

1. Criminology: Origin, Nature, Scope and Its Importance, Inter-relation between criminology and criminal law, Criminology as a social science, relations with other social sciences.
2. Concept of Crime: Origin, Definition of Crime, Classification, Elements of Crime, Development of Criminal Law in India

Module II: Schools of Criminology:

1. Schools of Criminology: Demonology, Classical, Neo-Classical Schools, Positive School, Cartographic School, Biological and Constitutional School of Criminology- Lombrosian and Others (heredity and mental retardation as causes of crime).
2. Multiple Factors: Heredity, Religion, Ecological, Economic, Psychological and Sociological factors.

Module III: Theories of Criminology

1. Social Structural Theories: Anomie theory, Cultural Transmission theory, Conflicting Theory, Social disorganization theory.
2. Social Process Theory: Sutherland's Differential Association Theory, Differential Identification theory, and Differential opportunity theory, Labeling Theory
3. Psychological Theories: Psycho analysis and criminality, Personality and crime, Intelligence and crime, Anti-social personality disorder, Integrated Theories

Module IV- Causes of Criminal Behavior

1. Environmental, home and community influence, urban and rural crime.
2. Broken homes, the effect of internet, TV videos, narcotics and alcohol.
3. Caste and community tensions: caste wars and communal riots-their causes and demoralizing effects, atrocities against schedule cadres.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Ahmed Siddiqui, *Criminology: Problems and Perspectives*, Eastern Book Co. Lucknow
- Larry Siegel, *Criminology*, Wardsworth Pub., Australia 1999
- Maguire, Morgan and Reiner, *The Oxford Handbook of Criminology*, Oxford University Press
- N. V. Pranjapae, *Criminology and Penology*, Central Law Publications, Allahabad
- Sutherland & Cressey, *The Principles of Criminology* 1974, Philadelphia: Lippincott.
- V. Prashanth, S Balaji, "Presumption of Innocence in Criminal Law", *Criminal Law J.* Vol. 106, (Sep.) 2000, J-129.
- Conklin, J.E. (2001), *Criminology*, Macmillan Publishing Company.
- George Vold and Thomas J. Bernard (1986), *Theoretical Criminology*, New York: Oxford University Press.
- Walter C. Reckless (1967), *The Crime Problem*, Bombay: Vakols, Feffner & Simson P. Ltd.
- Titus Reid (1982), *Crime & Criminology*, New York: Holt, Rinehard & Winstoon.
- Richard Quinney and John Wildeman (1977), *The Problem of Crime - A critical introduction to criminology*, London: Harper & Row.
- Carson R.C. and James N. Butcher (1992), *Abnormal psychology and Modern Life*, Harper Collinns Publisher Inc.
- Fathali M. Hoggaddam (1998) *Social Psychology: Exploring Universals Across Cultures*, New York: W.H.Freeman and Company.
- Garrett H.E. (1961) *General Psychology*, New Delhi: Eurasia Publishing House Ltd.
- W.A. Wonger, *Criminality and Economic Conditions*

LAND LAWS INCLUDING TENNURE & TENANCY SYSTEM

(Optional Paper)

Course Code: LLB 604

Credit Units: 04

To impart basic knowledge about land reforms apart from land acquisition procedures and rent laws.

MODULE-I : Land Reform: The Constitutional Provisions:

- a) Constitutional Provisions on Agrarian Reform Legislations.
- b) Abolition of Zamindars and Intermediaries.
- c) Land Ceiling Legislation.
- d) State enactments prohibiting alienation of land by tribal to non-tribals.
- e) Consolidation of holdings.

-II: Land Acquisition Rent Law- Concepts, Terms and Processes

Land Acquisition Act, 1894: Purpose, Procedure, Compensation; *Rent Law*- Concepts, Terms and Processes: Rent Legislation in India; Definitions: Landlord, Tenant, Land and Fair Rent; Fixation of Fair Rent.

MODULE-III: Eviction and Dispute Settlement Mechanism

Grounds of Eviction: Non-payment of Rent; Sub-letting; Change of user; Material alteration; Non-occupancy; Nuisance; Dilapidation; Bonafede requirement of the landlord; Alternative accommodation; Building and reconstruction and Limited; Tenancy: Settlement of rent disputes

MODULE-IV: Land Laws in Rajasthan

Rajasthan Tenancy Act, 1955: Objects and reasons, definition, Khudakhasht (Sec. 1 to 13); Jarcidars grove holder (Sec. 194 to 205); Classes of tenants (Sec. 14 to 17A); Conferment of right of Subtenants or tenants KhudKhasht (Sec. 19); Primary right of tenants sections 31 to 37; Surrender, abandonment and extinction of tenancies (Sec. 55 to 64); Improvement Trees (Sec. 65 to 87); declaratory suit (Sec. 88 to 92); Determination and modification of Rent (Sec. 93 to 129); Payment and Recovery of Rent, Remedies for wrongful ejection (Sec. 216 to 221); Provision for injunction and appointment of receiver (Sec. 212); Appeal, review, revision (Sec. 222 to 232); Reference, Questions of proprietary rights in revenue court (Sec. 239); Question of tenancy Rights in civil court (section 242); conflict of Jurisdiction (Sec. 243)

Rajasthan Land Revenue Act, 1956 : The board of Revenue, Revenue courts and officers (Sec. 4 to 30) Appeal, Reference, Revision and Review (Sec. 74 to 87) Land Sec. 88 to 105) Survey (Sec. 100-112). Record of Rights; Maintenance of maps and record; Annual Registers (Sec. 113-137); Settlement Operation: Rent Ratio; determination or rent term of settlement (Sec. 142-177); Collection of Revenue (Sec. 224 to 257)

Rajasthan Rent Control Act, 2001: Definition, Rent kinds, fixation eviction of tenants, grounds, restriction on eviction, restitution of possession, waiver on default (with new amendments of Rajasthan rent control (amendment) act 2017), Power & Jurisdiction Rent Tribunals

MODULE-V Drafting Exercises

- Forms and Deeds- General Power of Attorney Special Power of Attorney to execute Sale Deed Agreement to sell, Sale Deed, Lease Deed, Mortgage Deed, Relinquishment Deed, Gift Deed, Rent Deed
- Lease Agreement
- Notice under section 106 of The Transfer of Property Act, 1882
- Foreclosure Certificate

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text Books:

- V.N. Shukla, Constitution of India
- P.K. Sarkar, Law of Land Acquisition in India
- K.T.S. Tulsi, Law of Rent Control in India
- S.K. Dutta, Rajasthan Tenancy Law Rajasthan Land Revenue Act
- S.K. Dutta, Rent Control in Rajasthan
- Mathur&Mathur, Land Laws in Rajasthan
- Dr. G.S. Karkara, Land Laws in Rajasthan
- Pleading, Drafting by R.N Chaturvedi

Course Name	Course Code	LTP	Credit	Semester
LAND LAWS INCLUDING TENNURE & TENANCY SYSTEM (Optional Paper)	LLB 604	3:1:0	04	6

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Articulate all the foundational aspects of the law of land property and its evolution.
CLO 2	Understanding of the laws relating to Revenue, Rent control and Tenancy of Land.
CLO 3	Solve all problems practical, theoretical, philosophical or otherwise that arise in the spectrum of Land Law in India.

• **SYLLABUS**

To impart basic knowledge about land reforms apart from land acquisition procedures and rent laws.

MODULE-I : Land Reform: The Constitutional Provisions:

- a) Constitutional Provisions on Agrarian Reform Legislations.
- b) Abolition of Zamindars and Intermediaries.
- c) Land Ceiling Legislation.
- d) State enactments prohibiting alienation of land by tribal to non-tribals.
- e) Consolidation of holdings.

-II: Land Acquisition Rent Law- Concepts, Terms and Processes

Land Acquisition Act, 1894: Purpose, Procedure, Compensation; *Rent Law-* Concepts, Terms and Processes: Rent Legislation in India; Definitions: Landlord, Tenant, Land and Fair Rent; Fixation of Fair Rent.

MODULE-III: Eviction and Dispute Settlement Mechanism

Grounds of Eviction: Non-payment of Rent; Sub-letting; Change of user; Material alteration; Non-occupancy; Nuisance; Dilapidation; Bonafede requirement of the landlord; Alternative accommodation; Building and re-construction and Limited; Tenancy: Settlement of rent disputes

MODULE-IV: Land Laws in Rajasthan

Rajasthan Tenancy Act, 1955: Objects and reasons, definition, Khudakhasht (Sec. 1 to 13); Ijardars grove holder (Sec. 194 to 205); Classes of tenants (Sec. 14 to 17A); Conferment of right of Subtenants or tenants KhudKhasht (Sec. 19); Primary right of tenants sections 31 to 37; Surrender, abandonment and extinction of tenancies (Sec. 55 to 64); Improvement Trees (Sec. 65 to 87); declaratory suit (Sec. 88 to 92); Determination and modification of Rent (Sec. 93 to 129); Payment and Recovery of Rent, Remedies for wrongful ejection (Sec. 216 to 221); Provision for injunction and appointment of receiver (Sec. 212); Appeal, review, revision (Sec. 222 to 232); Reference, Questions of proprietary rights in revenue court (Sec. 239); Question of tenancy Rights in civil court (section 242); conflict of Jurisdiction (Sec. 243)

Rajasthan Land Revenue Act, 1956 : The board of Revenue, Revenue courts and officers (Sec. 4 to 30) Appeal, Reference, Revision and Review (Sec. 74 to 87) Land Sec. 88 to 105) Survey (Sec. 100-112). Record of Rights; Maintenance of maps and record; Annual Registers (Sec. 113-137); Settlement Operation: Rent Ratio; determination or rent term of settlement (Sec. 142-177); Collection of Revenue (Sec. 224 to 257)

Rajasthan Rent Control Act, 2001: Definition, Rent kinds, fixation eviction of tenants, grounds, restriction on eviction, restitution of possession, waiver on default (with new amendments of Rajasthan rent control (amendment) act 2017), Power & Jurisdiction Rent Tribunals

MODULE-V Drafting Exercises

- Forms and Deeds- General Power of Attorney Special Power of Attorney to execute Sale Deed Agreement to sell, Sale Deed, Lease Deed, Mortgage Deed, Relinquishment Deed, Gift Deed, Rent Deed
- Lease Agreement
- Notice under section 106 of The Transfer of Property Act, 1882
- Foreclosure Certificate

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text Books:

- V.N. Shukla, Constitution of India
- P.K. Sarkar, Law of Land Acquisition in India
- K.T.S. Tulsi, Law of Rent Control in India
- S.K. Dutta, Rajasthan Tenancy Law Rajasthan Land Revenue Act
- S.K. Dutta, Rent Control in Rajasthan
- Mathur&Mathur, Land Laws in Rajasthan
- Dr. G.S. Karkara, Land Laws in Rajasthan
- Pleading, Drafting by R.N Chaturvedi

CYBER LAW (Optional Paper)

Course Code: LLB 605

Credit Units: 04

Course Objective:

The objective of course is to provide general introduction of Cyber world and Cyber law and to educate the student about National and International cyber space regulation and its relevance in modern context.

Module I: Introduction

Need for Cyber Law, Cyber Jurisprudence at International & Indian Level; Electronic governance, Attribution, Acknowledgment and Dispatch of electronic records, Introduction to web technology" and "Introduction to Hardware and Software" and "Introduction to Networking; Cyber Crimes vs. Conventional Crime; Introduction to Information Technology Act 2000; General concepts under General Data Protection Regulation(GDPR)

Module II: Electronic Records and Digital Signature

Secure electronic records, Secure digital signatures, Regulation of Certifying Authorities, Digital signature certificates, Duties of subscribers

Module III: Cyber Crimes&Punishments and Tribunals

Different offences under IT Act, 2000, Web hacking, Foot printing, Port scanning, E-shoplifting, Web defacement, Denial of service attacks, Manipulating cookies, E-mail hacking using packet sniffers, E-mail hacking and snooping, E-mail frauds and phishing, E-mail bombing, Social engineering, Cyber stalking, Cyber terrorism, Pornography including child pornography, Cyber bullying, Piracy, Credit Card Fraud, Cross border offences and their resolutions, Punishments and Tribunals:Offences, Adjudication, Penalties, Cyber Regulations Appellate Tribunal, Appeals and review

Module IV: E-Commerce & E- Contracting

Salient features of E-contract, Formation of E-contract and types, E-mail Contracting, Indian Approach on E-contracts, E-commerce-Salient Features and advantages, Models of E-commerce like B2B, B2C, Indian Laws on E-commerce

Module V: Contemporary Trends

Impact of cyber warfare on privacy, identity theft; International law governing Censorship, online privacy, copyright regulations; Online Intermediaries in the governance of Internet; Social Networking Sites vis-à-vis Human Rights; Intellectual Property Issues in Cyber Space : Interface with Copyright Law, Trademarks &Domain Names Related issues, Law relating to semi-conductor layout & design, Dispute Resolution in Cyberspace ;Personal Data Protection Bill 2019; Use of ICT in Courts

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Apar Gupta, Commentary on Information Technology Act, 2000, Lexis Nexis, (2015)
- Karnika Seth, Computers, Internet and New Technology Laws, Lexis NexisButterworthsWadhwa Nagpur, (2013).
- NandanKamath, Law Relating to Computer Network and E-commerce, Universal Law Publisher,(2012).
- Chris Reed & John Angel, Computer Law, OUP, New York, (2007)

- Justice Yatindra Singh, Cyber Laws, Universal Law Publishing Co, New Delhi, (2012)
- Verma S, K, Mittal Raman, Legal Dimensions of Cyber Space, Indian Law Institute, New Delhi, (2004)
- JonthanRosenoer, Cyber Law, Springer, New York, (1997).
- Sudhir Naib, The Information Technology Act, 2005: A Handbook, OUP, New York, (2011)
- S. R. Bhansali, Information Technology Act, 2000, University Book House Pvt. Ltd., Jaipur (2003).
- Vasu Deva, Cyber Crimes and Law Enforcement, Commonwealth Publishers, New Delhi, (2003).

Course Name	Course Code	LTP	Credit	Semester
CYBER LAW (Optional Paper)	LLB 605	3:1:0	04	6

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Demonstrate comprehensive, current and integrated knowledge and understanding of key concepts in Cyber law and its development.
CLO 2	Recognize the issues involved in the implementation and enforcement of Cyber law.
CLO 3	Analyze & apply such knowledge to identify and critically evaluate appropriate regulatory and enforcement strategies

- SYLLABUS**

Course Objective:

The objective of course is to provide general introduction of Cyber world and Cyber law and to educate the student about National and International cyber space regulation and its relevance in modern context.

Module I: Introduction

Need for Cyber Law, Cyber Jurisprudence at International & Indian Level; Electronic governance, Attribution, Acknowledgment and Dispatch of electronic records, Introduction to web technology" and "Introduction to Hardware and Software" and "Introduction to Networking; Cyber Crimes vs. Conventional Crime; Introduction to Information Technology Act 2000; General concepts under General Data Protection Regulation(GDPR)

Module II: Electronic Records and Digital Signature

Secure electronic records, Secure digital signatures, Regulation of Certifying Authorities, Digital signature certificates, Duties of subscribers

Module III: Cyber Crimes&Punishments and Tribunals

Different offences under IT Act, 2000, Web hacking, Foot printing, Port scanning, E-shoplifting, Web defacement, Denial of service attacks, Manipulating cookies, E-mail hacking using packet sniffers, E-mail hacking and snooping, E-mail frauds and phishing, E-mail bombing, Social engineering, Cyber stalking, Cyber terrorism, Pornography including child pornography, Cyber bullying, Piracy, Credit Card Fraud, Cross border offences and their resolutions, Punishments and Tribunals:Offences, Adjudication, Penalties, **Cyber Regulations Appellate Tribunal, Appeals and review**

Module IV: E-Commerce & E- Contracting

Salient features of E-contract, Formation of E-contract and types, E-mail Contracting, Indian Approach on E-contracts, E-commerce-Salient Features and advantages, **Models of E-commerce like B2B, B2C, Indian Laws on E-commerce**

Module V: Contemporary Trends

Impact of cyber warfare on privacy, identity theft; International law governing Censorship, online privacy, copyright regulations; Online Intermediaries in the governance of Internet; Social Networking Sites vis-à-vis Human Rights; Intellectual Property Issues in Cyber Space : Interface with Copyright Law, Trademarks & Domain Names Related issues, **Law relating to semi-conductor layout & design, Dispute Resolution in Cyberspace ;Personal Data Protection Bill 2019; Use of ICT in Courts**

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Apar Gupta, Commentary on Information Technology Act, 2000, Lexis Nexis, (2015)
- Karnika Seth, Computers, Internet and New Technology Laws, Lexis Nexis Butterworths Wadhwa Nagpur, (2013).
- Nandan Kamath, Law Relating to Computer Network and E-commerce, Universal Law Publisher, (2012).
- Chris Reed & John Angel, Computer Law, OUP, New York, (2007)
- Justice Yatindra Singh, Cyber Laws, Universal Law Publishing Co, New Delhi, (2012)
- Verma S, K, Mittal Raman, Legal Dimensions of Cyber Space, Indian Law Institute, New Delhi, (2004)
- Jonathan Rosenoer, Cyber Law, Springer, New York, (1997).
- Sudhir Naib, The Information Technology Act, 2005: A Handbook, OUP, New York, (2011)
- S. R. Bhansali, Information Technology Act, 2000, University Book House Pvt. Ltd., Jaipur (2003).
- Vasu Deva, Cyber Crimes and Law Enforcement, Commonwealth Publishers, New Delhi, (2003).

Right to Information (Constitutional Law Hons. Paper- II)

Course Code: LLB 706 CP

Credit Units: 04

Course Objective:

The Right to Information Act, 2005 (RTI) was created in 2005 and marked an important time in Indian legislative history. The Right to Information enables citizens to hold the government accountable and ensure that it is a transparent body. The object of this paper is to provide for setting out the practical regime of right to information to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, the constitution of a Central Information Commission and State Information Commissions and for matters connected therewith or incidental thereto.

Course Contents:

Module I: Introduction to Right to Information

Concept, Evolution of right to information in India: Focus on developments from 1950 to 2005, Salient features of Right to Information Act, The Need for the Right to Information, Objective of the Right to Information Act.

Privilege to withhold of Documents/Information: Comparative analysis of Laws in other Common Law – Countries with special reference to (a) England (b) U.S.A.

Module II: The free flow of information in India and its Legislative Measure

Applicability of RTI, Definition: Information, right to information, records, documents, memos, e-mails, opinions, advices, press releases, circulars, orders, log books, contracts, reports, papers, samples, models; record.

Privilege to withhold documents and the law in India- with special reference to:

- (a) Indian Evidence Act, 1872
- (b) Indian Telegraph Act, 1885
- (c) The Official Secret Act, 1923
- (d) The Atomic Energy Act, 1962

Right to information and efforts made to legislate RTI Act

Module III: Right to Information and Judiciary RTI Obligations of Public Authorities

Electoral reforms, Transparency in governance, privilege and immunities of journalist involved in legal reporting, Extent of Liability for contempt of Court, Scope of defenses under the Contempt of Court Act, 1971 and Right to Information Act, 2005
Right to information, Obligations of public authorities, Designation of Public Information Officers, Request for obtaining information and Disposal of request, Exemption from disclosure of information and Grounds for rejection to access in certain cases, Third party information.

Module IV: Information Commission and Powers of the Information Commissions

Constitution of Central Information Commission: Term of office and conditions of service, Removal of Chief Information Commissioner or Information Commissioner, Constitution of State Information Commission, Terms of office and conditions of service, Removal of state chief Information Commissioner or state Information Commissioner. Powers and functions of Information Commissions, Appeal, Penalties

Module V: : Ecological perspective on RTI and Drafting of RTI

Lessons from RTI: Sakaala: Public Service Guarantee Act and How to draft RTI Application

Examination Scheme:

Components	CA	A	CT	EE
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Weightage (%)	30	5	15	50
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Text & References:

- Rodney Ryder, RIGHT to INFORMATION - Law, Policy & Practice
- Dr. A K S Massey Law relating to Right to Information
- N. V. Paranjape, Right To Information Law In India
- Abhishek Shukla and Surinder K. Shukla, Rule of Law and Right to Information
- Justice Rajesh Tandon, Right to Information Law And Practice

Course Name	Course Code	LTP	Credit	Semester
Right to Information (Constitutional Law Hons. Paper- II)	<u>LLB 706 CP</u>	3:1:0	04	7

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Understand the practical applicability of the Right to Information Act, 2005
CLO 2	File an RTI by going through the procedure for seeking information from any public office within the territory of India
CLO 3	Discuss the request disposal procedure as defined under the Act
CLO 4	Identify the information that is exempted from disclosure under the RTI regime

• **SYLLABUS**

Course Objective:

The Right to Information Act, 2005 (RTI) was created in 2005 and marked an important time in Indian legislative history. The Right to Information enables citizens to hold the government accountable and ensure that it is a transparent body. The object of this paper is to provide for setting out the practical regime of right to information to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, the constitution of a Central Information Commission and State Information Commissions and for matters connected therewith or incidental thereto.

Course Contents:

Module I: Introduction to Right to Information

Concept, Evolution of right to information in India: Focus on developments from 1950 to 2005, Salient features of Right to Information Act, The Need for the Right to Information, Objective of the Right to Information Act.

Privilege to withhold of Documents/Information: Comparative analysis of Laws in other Common Law – Countries with special reference to (a) England (b) U.S.A.

Module II: The free flow of information in India and its Legislative Measure

Applicability of RTI, Definition: Information, right to information, records, documents, memos, e-mails, opinions, advices, press releases, circulars, orders, log books, contracts, reports, papers, samples, models; record.

Privilege to withhold documents and the law in India- with special reference to:

- (a) Indian Evidence Act, 1872
- (b) Indian Telegraph Act, 1885
- (c) The Official Secret Act, 1923
- (d) The Atomic Energy Act, 1962

Right to information and efforts made to legislate RTI Act

Module III: Right to Information and Judiciary RTI Obligations of Public Authorities

Electoral reforms, Transparency in governance, privilege and immunities of journalist involved in legal reporting, Extent of Liability for contempt of Court, Scope of defenses under the Contempt of Court Act, 1971 and Right to Information Act, 2005 Right to information, Obligations of public authorities, Designation of Public Information Officers, Request for obtaining information and Disposal of request, Exemption from disclosure of information and Grounds for rejection to access in certain cases, Third party information.

Module IV: Information Commission and Powers of the Information Commissions

Constitution of Central Information Commission: Term of office and conditions of service, Removal of Chief Information Commissioner or Information Commissioner, Constitution of State Information Commission, Terms of office and conditions of service, Removal of state chief Information Commissioner or state Information Commissioner. Powers and functions of Information Commissions, Appeal, Penalties

Module V: : Ecological perspective on RTI and Drafting of RTI

Lessons from RTI: Sakaala: Public Service Guarantee Act and How to draft RTI Application

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Rodney Ryder, RIGHT to INFORMATION - Law, Policy & Practice
- Dr. A K S Massey Law relating to Right to Information
- N. V. Paranjape, Right To Information Law In India
- Abhishek Shukla and Surinder K. Shukla, Rule of Law and Right to Information
- Justice Rajesh Tandon, Right to Information Law And Practice

Corporate Governance

(Corporate Law Hons. Paper-II)

Course Code: LLB 706 CG

Credit Units: 04

Course Objective:

To enable the students to understand the principles and structural mechanisms established for corporate governance. Also, to highlight the various challenges and impacts of good corporate governance or Corporate Mis-governance on the economy.

Course Contents:

Module I

An overview of Corporate Governance, Scope and need of Corporate Governance, Theories and core principles of Corporate Governance

Module II

Legal Provisions enshrined Corporate Governance under Companies Act 2013

- Powers and Functions, Role and Duties of Shareholders, 2. The Board of Directors, 3. The Managers and 4. The Auditors, 5. Auditors Committee
- Inspection, Inquiry and Investigation, Powers and Functions of Serious Fraud Investigation Offence (SFIO)
- Investigation by National Company Law Tribunal

Module -III

- Legal Provisions enshrined Corporate Governance under various Corporate Legislations
- Enhancement of Corporate Governance – Analysis of various Committees/Commission recommendations, Role of SEBI, CCI and Central Government in Corporate Governance.
- SEBI Prohibition of Insider Trading Rules 2015 for Investor Protection

Module -IV

- Corporate Crimes and Disasters – Case studies
- Challengers of Globalisation and Corporate Governance, Corporate Governance and CSR.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Companies Act 2013
- Corporate Governance: Principles, Policies and Practices, 2nd Edn., By – Bob Tricker, [OUP]
- Corporate Governance, 2nd Edn., By – Christine A Mallin, [OUP], 2007
- Corporate Governance – A synthesis of Theory, Research and Practice, By – H. Kent Baker, Ronald Anderson (Editors), {Kolb Series in Finance} [John Wiley and Sons], 2010
- Corporate Governance – The Indian Scenario, By – Vasudha Joshi, [Foundation Books Pvt. Ltd.], 2004
- Corporate Governance, 5th Edn., By – Robert A G Monks and Nell Milow, [John Wiley and Sons], 2011
- Corporate Governance – A practical Guide to the Legal Frameworks and International Codes of Practice, By – Alan Calder, [Kogan Page], 2008

COPY RIGHT (IPR HONS. PAPER-II)

Course Code: LLB 706 IPR

Credit Units: 04

Course Objective:

The course is designed to provide comprehensive knowledge to the students regarding Indian position of the Copy Right Law and Designs Law which invariably form the part of Intellectual Property Law

Course Content:

Module I: Copyright

History, Concept of copyright, conditions for grant of copyright, extent of rights exception to copyright protection, fair use provision, assignment and licensing, Compulsory licensing and statutory licensing, Moral rights: Neighboring rights; infringement penalties and remedies, Appeals,

Module II: Office and Authorities

Collective administration, Copyright board and office, powers and functions

Module III: International compliance

Berne Convention, Universal Copyright Convention - WIPO Copyright Treaty: WIPO Phonograms and Performances treaty, TRIPS with respect to Copyright and Neighboring rights.

Module IV: Designs, Protection, Historical development, Rationale

Designs Act of 2000: Meaning of Design, Conditions for grant of protection, Ambit of Protection, Exceptions, Registration of Designs, Cancellation, Copyright in Registered Designs, Enforcement, Infringement and remedies, Powers and duties of Controller.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- D.P. Mittal (Taxman Publication), Indian Patents Law and Procedure
- B.L. Wadera, Patents, trademarks, copyright, Designs and Geographical Judications.
- P. Narayanan (Eastern Law House), Intellectual Property Law
- W. Cornish (Universal Publication), Intellectual Property Law
- R.K. Nagarjan, Intellectual Property Law
- Ganguli (Tata Megraw), Intellectual Property Rights

PRIVATE INTERNATIONAL TRADE LAW

(International Trade law- Hon. Paper –II)

Course Code: LLB 706 ITL

Credit Units: 04

Objective:

The objective of the course is to provide an insight to the students into the present legal framework governing international trade transactions and to keep them abreast with the legal developments taking place in this area. Therefore course seeks to introduce and clarify some of the many issues relating to private international trade law.

Module I Private International Trade Law Meaning, Definition

- Hague Convention on Private International law
- Sources of Private International Law.
- Blurring distinction between public and private International Law.
- Choice of Law
- Unification of Private International Law.
- Lex Mercatoria
- INCOTERMS

Module II- Formation of the Contract

- International sale contracts
- Of Carriage: Air, Sea and Road.
- Of Insurance
- Of Financing: Bills of Exchange , Letters of Credit, Bank Guarantee

Module III- International Sale of Goods-

United Nations Convention on Contracts for the International Sale of Goods.

- Description of Goods
- Delivery Terms
- Price
- Applicable Law
- Retention of Title
- Dispute Resolution
- Inspection of Goods

Module IV Documents In International Trade

- Definition and importance
- Nature of Bills of Lading
- Bills of Lading as a receipt
- Bills of Lading as a Contractual document
- Parties to the Bills of Lading Contract

Module V- Insurance Of Goods

- Insurance of Goods in transit
- Marine insurance
- Air cargo insurance

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Recommended Readings

- Allison E. Butler, A Practical Guide to the CISG: Negotiations Through Litigation, Aspen Publishers, 2007.
- Carole Murray, David Hooloway and Daren Timson-Hunt, (ed), Schmitthoff, Export Trade: The Law and Practice of International Trade, Sweet & Maxwell Publications, 2007
- Jason C.T. Chuah, Law of International Trade: Cross- Border Commercial Transactions, Fourth Ed., Sweet & Maxwell Publications, 2009
- Indira Carr and Richard Kidner, Statues and Conventions on International Trade Law, Cavendish Publishing Ltd, 2003
- Day & Griffin, The Law of International Trade, Butterworths, 2003.
- Ingerborg Schwenzer and Chrstiana Fountoulakis (ed.) International Sales Law, Routledge Cavendish, 2007
- Stefan Kroll, Loukas Misteli etc (ed) UN Convention on Contracts for the International Sale of Goods, C. H. Beck. Hart. Nomos, 2011.
- Ingeborg Schwenzer (ed.) Commentary on the UN Convention on the International Sale of Goods (CISG), Oxford University Press, 2010
- John O. Honnold, Uniform Law for International Sales under the 1980 United Nations Convention, Fourth ed, Wolters Kluwer, 2009.
- Filip De Ly, SOURCES OF INTERNATIONAL SALES LAW: AN ECLECTIC MODEL, Journal Of Law And Commerce, Vol. 25
- Harry M. Flechtner, The United Nations Convention On Contracts For The International Sale Of Goods, United Nations Audiovisual Library of International Law.
- Herbert Kronke, THE UN SALES CONVENTION, THE UNIDROIT CONTRACT PRINCIPLES AND THE WAY BEYOND, Journal Of Law And Commerce Vol. 25:451
- Roeland Bertrams, Bank Guarantees in International Trade, 3rd ed. Kluwer Law International 2004.
- Sir Guenter Treitel and FMB Reynolds (Ed), Carver on Bills of Lading, Sweet & Maxwell, 3rd Edition, 2011
- John F. Wilson, Carriage of Goods by Sea 6th ed (London: Longman, 2008), ISBN: 9781405846691
- John Lowry and Philip Rawlings, Insurance Law: Cases and Materials (Oxford: Hart Publishing, 2004), ISBN: 9781841132747

PENOLOGY AND VICTIMOLOGY

Criminal law Hon. Paper- II

Course Code: LLB 706 CRL

Course credit: 04

Course Objective:

In view of magnitude of the problem the existing machinery for control of crime, namely the police and courts have come under severe criticism. Much has been said against capital punishment and imprisonment as methods of preventing and control of crime. Nevertheless these continue to be the backbone of the system in India. Several alternatives such as conditional release, parole and commutation of sentences have been suggested in this regard. The course shall dwell on these themes with a view to develop among students a greater understanding of social costs of crime and the effective ways of lessening them. Rehabilitation process is undoubtedly an important component of criminal justice system.

Module 1- Introduction to Penology and Penal Policy:

1. Punishment: Theories of Punishment, Different forms of punishment.
2. Capital Punishment: Deterrent effect of capital punishment, Justification of capital punishment, Should euthanasia be legalize.
3. Parole: The concept of parole, the object of parole, Parole in India, Condition of Parole and Parole violation, Judicial trend.
4. Probation: Probation in India, probation offenders, Judicial trends.

Module 2- Administration of Criminal Justice:

1. Article: 20 of Indian Constitution, Prohibition on double jeopardy (*ne bis in idem*), Aid of legal counsel, Article 22: Right to fair trial, Right to speedy trial.
2. Hierarchy of Criminal Courts, Norms under CrPC: Adversary trial system, Knowledge of the accusation, Presumption of innocence, Evidence to be taken in the presence of the accused, Independent, impartial and competent judges – section 497 CrPC.
2. Prison system in India, The problem of prison discipline, Problem of criminality in prison, Bar against hand cuffing, Prison reforms, Custodial torture in prison.

Module 3- Introduction to Victimology:

1. Victimology: Concept & Objectives of Victimology, Classification of victims, Theories: Function of victim's lifestyle, Dangerous times theory, Dangerous places theory, High risk occupations, Routine Activity theory.
2. Criminal Law and the Victim: Role and Typology of Victims – nature of crime and category of victims: gender crimes, child abuse, bonded labour, Victim participation in crime.
3. Rights and Protection to victims under Criminal Law: Protection of Civil Rights Act 1995, Dowry Prohibitions Act 1961, Prevention of Atrocities Act 1989, Domestic violence.

Module 4- Justice to Victim:

1. Victim interface with police: Custodial violence, police assistance in lodging FIR, Hospital test/treatment.
2. Victim Assistance: Concept of victim assistance, Restitution, Victim Compensation - Scheme Compensation under various laws- Sec. 357 of Cr.P.C
3. Justice to victims: State liability to pay compensation, Mali math Committee Report on victims, Law Commission of India 227th Report on Acid Attacks.
4. Community Responses: Victim Services, Victim Advocacy.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Referred Cases:

- Hussainara Khatoon (IV) v. State of Bihar, (1980) 1 SCC 98 at 107
- Motilal Saraf v. State of J and K 3 (2007) 1 SCC (Cri) 180
- Babu Singh v. State of Punjab (1964) 1 Cri. LJ 566; Kali Ram v. State of H.P. 1973 SCC (Cri) 1048
- Justice Sutherland in Powell v. Alabama 287 U.S. 45 (1932); Khatri v. State of Bihar, AIR 1981 SC 928
- D.K. Basu vs State of West Bengal, (1997)Cri L J743 (SC).
- Joginder Kumar vs State of UP&Others(AIR1994SC1349.
- Dudley and Stephen (1884)14QBD273
- Gopal Naidu (1922)46 Mad 605 (FB)

Text & References:

- N. V. Pranjape, Criminology and Penology, Central Law Publications, Allahabad
- AF Ali Adan, “Right of the Defendant: A Speedy Trial in the Criminal Proceedings”, Criminal Law J. 108, (Apr.) 2002, J-87
- Ahmed Siddiqui, Criminology: Problems and Perspectives, Eastern Book Co. Lucknow
- BL Arora, Law of Speedy Trial in India, Universal Law Publishing, Delhi, 2007.
- Katherine S. Williams, Text book on Criminology
- Neeraj Tiwari, “Fair trial vis-à-vis criminal justice administration: A critical study of Indian criminal justice system,”Journal of Law and Conflict Resolution, vol. 2(4), 2010, pp. 66-73,
- Robert A. Jerin, Current Issues in Victimology Research, Carolina Academic Press
- Andrew Karmen, Crime Victims: An Introduction to Victimology, Cengage Learning
- Larry Siegel, Criminology, Wardsworth Pub., Australia 1999
- Maguire, Morgan and Reiner, The Oxford Handbook of Criminology, Oxford University Press
- R Prasanna, ‘Counsel in the Criminal Process’, vol. 10, 1968, J. Indian Law Inst.
- Sutherland & Cressey, The Principles of Criminology
- V. Prashanth, S Balaji, “Presumption of Innocence in Criminal Law”, Criminal Law J. Vol. 106, (Sep.) 2000, J-129.
- W.A. Wonger, Criminology and Economic Conditions
- Chock lingam (ed) : Readings in Victimology (1985), Ravi Raj Publications, Madras.
- G.S. Bajpai :Victim in the Criminal Justice Process : Perspectives on Police and Judiciary (1997) Uppal.
- Hans Van Hentig : The Criminal and His Victim, 1948
- Jhalak Kakkar And Shruti Ojha, “An Analysis Of The Vanishing Point Of Indian Victim Compensation Law”, Journal of Indian Law and Society, vol. 2, 2011, pp. 313-340.
<http://jils.ac.in/wp-content/uploads/2011/12/Jhalak-Kakkar-and-Shruti-Ojha.pdf>
- John P. J. Dussich, “The Challenges Of Victimology, Past, Present And Future”
http://www.unafei.or.jp/english/pdf/RS_No81/No81_09VE_Dussich.pdf
- Law Commission of India 227th Report on Acid Attacks,
<http://lawcommissionofindia.nic.in/reports/report226.pdf>
- Miomira Kostić, “Victimology: A Contemporary Theoretical Approach to Crime and its Victim”,
<http://facta.junis.ni.ac.rs/lap/lap2010/lap2010-04.pdf>
- Natti Ronel, K. Jaishankar and Mosha Bensimon (eds.) :Trends and Issues in

SOCIO-ECONOMIC OFFENCES

(Optional Paper)

Course Code: LLB 708

Credit Units: 04

Course Objective:

The Course is designed to acquaint the students about new emerging offences in different mode and manner that directly or indirectly affect the society. Such offences are generally committed by higher class people who are well educated and working in reputed establishments. The study of these offences is essential to make significant efforts in social welfare and can effectively increase the stigma against such offenders. At the same time the executive machinery is also most dreadfully affected by the corruption therefore this course is oriented to make awareness of such statutes to deal with them effectively.

Module 1- Introduction to Socio-Economic Offences:

- Origin and Development of Socio-Economic Offences ,The Santhanam Committee Report, 1964 and the 47th Report of the Law Commission of India, 1972, Distinction between traditional offences and socio-economic offences.
- White Collar Crimes
- Organised Crimes

Module 2- Social legislations in India:

- The Protection of Children from Sexual Offences Act, 2012
- Violence against Women-Sexual Harassment, Dowry, Domestic violence:Sexual Harassment at work Place Act 2013; Dowry Prohibition Act, 1951
- Immoral Traffic (Prevention) Act, 1986 (Amendment Bill 2006)
- Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act, 1989
- The Protection of Civil Rights Act,1955

Module 3-Socio-Economic Laws in India:

- The Prevention of Food Adulteration Act, 1954
- Narcotic Drugs and Psychotropic Substances Act, 1985

Module 4- Economic Laws in India:

- Prevention of Corruption Act, 1988
- Prevention of Money Laundering Act, 2002
- The Benami Transactions (Prohibition) Act ,1988 including Key Highlights of The Benami Transactions (Prohibition) Amendment Act, 2016

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Ahmed Siddiqui, *Criminology: Problems and Perspectives*, Eastern Book Co. Lucknow
- Sutherland & Cressey, *The Principles of Criminology* 1974, Philadelphia: Lippincott
- V. Prashanth, S Balaji, "Presumption of Innocence in Criminal Law", *Criminal Law J.* Vol. 106, (Sep.) 2000, J-129.
- Atchuthan Pillai, P.S., 1983, *Criminal Law*, N.M. Tripathi, Bombay.
- Gaur, K.D., 1985, *Criminal Law, (Cases and Materials)* Second Edition, N.M. Tripathi, Bombay.
- Dutta, L.K., 1979, *Treatise on Criminal Law*, See Chapters II, III, V, VII, VIII to XII, XVIII to XXIV AND XXVII, Eastern Book Co, Lucknow.
- Huda, Syed Shamshull, 1982, *The Principles of the Law of Crimes*, See Supplementary, Chapter, Lectures I, V to X and XII, Eastern Book Co, Lucknow.
- Khan, M.Z. & Sharmark, 1982, *Profile of a Nyaya Panchayat*, New Delhi, National.
- Wing-cheong, Barry Wright and Stanley Yeo (eds.), *Codification, Macaulay and the Indian Penal Code: Legacies and Modern Challenges of Criminal Law Reforms* (2011).
- K.I. Vibhute, *PSA Pillai's Criminal Law* (2012).
- Smith & Hogan's *Criminal Law* (2011)
- Stuart P. Green, "The Concept of White Collar Crime in Law and Legal Theory" 8 *Buffalo Law Review* (2004)
- Nivedita Menon, "Embodying the Self: Feminism, Sexual Violence and the Law" in Partha Chatterjee and Pradeep Jaganathan (eds.), *Community, Gender and Violence* (2007).
- Neeraj Tiwari, "Socio-economic offences: Eclipse on mensrea" 6 (22) *Karnataka Law Journal* 25-32 (2011 November).
- Ujjwal Kumar Singh, "Mapping Anti-terror Legal Regime in India" in Victor V. Ramraj, Michael Horet al (eds.), *Global Anti-terror Law and Policy* (Cambridge University Press, 2012).
- Upendra Baxi, "Jurisprudence of Corruption and Corruption of Jurisprudence", *Kali's Yug - Women and Law Journal* 1-9 (2002 Feb).

Course Name	Course Code	LTP	Credit	Semester
SOCIO-ECONOMIC OFFENCES (Optional Paper)	LLB 708	3:1:0	04	7

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	The students will be able to know the concept of Socio economic crime and other traditional Crime.
CLO 2	The students will able to the understand the role of mens rea in socio economic offence
CLO 3	The students will aware in respect to corruption in society.
CLO 4	The students will come to know that what is appropriate redressal.

• **SYLLABUS**

Course Objective:

The Course is designed to acquaint the students about new emerging offences in different mode and manner that directly or indirectly affect the society. Such offences are generally committed by higher class people who are well educated and working in reputed establishments. The study of these offences is essential to make significant efforts in social welfare and can effectively increase the stigma against such offenders. At the same time the executive machinery is also most dreadfully affected by the corruption therefore this course is oriented to make awareness of such statutes to deal with them effectively.

Module 1- Introduction to Socio-Economic Offences:

- Origin and Development of Socio-Economic Offences ,The Santhanam Committee Report, 1964 and the 47th Report of the Law Commission of India, 1972, Distinction between traditional offences and socio-economic offences.
- White Collar Crimes
- Organised Crimes

Module 2- Social legislations in India:

- The Protection of Children from Sexual Offences Act, 2012
- Violence against Women-Sexual Harassment, Dowry, Domestic violence:Sexual Harassment at work Place Act 2013; Dowry Prohibition Act, 1951
- Immoral Traffic (Prevention) Act, 1986 (Amendment Bill 2006)
- Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act, 1989
- The Protection of Civil Rights Act,1955

Module 3-Socio-Economic Laws in India:

- The Prevention of Food Adulteration Act, 1954
- Narcotic Drugs and Psychotropic Substances Act, 1985

Module 4- Economic Laws in India:

- Prevention of Corruption Act, 1988
- Prevention of Money Laundering Act, 2002

- The Benami Transactions (Prohibition) Act ,1988 including Key Highlights of The Benami Transactions (Prohibition) Amendment Act, 2016

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Ahmed Siddiqui, Criminology: Problems and Perspectives, Eastern Book Co. Lucknow
- Sutherland & Cressey, The Principles of Criminology 1974, Philadelphia: Lippincott
- V. Prashanth, S Balaji, “Presumption of Innocence in Criminal Law”, Criminal Law J. Vol. 106, (Sep.) 2000, J-129.
- Atchuthan Pillai, P.S., 1983, Criminal Law, N.M. Tripathi, Bombay.
- Gaur, K.D., 1985, Criminal Law, (Cases and Materials) Second Edition, N.M. Tripathi, Bombay.
- Dutta, L.K., 1979, Treatise on Criminal Law, See Chapters II,III,V,VII,VIII to XII, XVIII to XXIV AND XXVII, Eastern Book Co, Lucknow.
- Huda, Syed Shamshull, 1982, The Principles of the Law of Crimes, See Supplementary, Chapter, Lectures I, V to X and XII, Eastern Book Co, Lucknow.
- Khan, M.Z. & Sharmark, 1982, Profile of a Nyaya Panchayat, New Delhi, National.
- Wing-cheong, Barry Wright and Stanley Yeo (eds.), Codification, Macaulay and the Indian Penal Code: Legacies and Modern Challenges of Criminal Law Reforms (2011).
- K.I. Vibhute, PSA Pillai’s Criminal Law (2012).
- Smith & Hogan’s Criminal Law (2011)
- Stuart P. Green, “ The Concept of White Collar Crime in Law and Legal Theory” 8 Buffalo Law Review (2004)
- Nivedita Menon, “Embodying the Self: Feminism, Sexual Violence and the Law” in Partha Chatterjee and Pradeep Jaganathan (eds.), Community, Gender and Violence (2007).
- Neeraj Tiwari, “Socio-economic offences: Eclipse on mensrea” 6 (22) Karnataka Law Journal 25-32 (2011 November).
- Ujjwal Kumar Singh, “Mapping Anti-terror Legal Regime in India” in Victor V. Ramraj, Michael Horet al (eds.), Global Anti-terror Law and Policy (Cambridge University Press, 2012).
- Upendra Baxi, “Jurisprudence of Corruption and Corruption of Jurisprudence”, Kali’s Yug - Women and Law Journal 1-9 (2002 Feb).

SPORTS LAW

(Optional Paper)

Course Code: LLB 709

Credit Units: 04

Course Objective:

The Course is envisioned to give a broad idea to the student about the origin and development of sports and sports law in India and World. This course is a brief analysis of regulation of sports in India and world. This course will enable the students to understand and interpret different issues such as doping, betting, civil and criminal liability etc.

Module I - Introduction

Definition of Sports, History of sports, Origin and development of Individual sports, Sports Law : Identity Crisis, Sports Culture in India, Classification of Sports, Role of State and sports law, Sports Ethics.

Module II - International Law and Sports

International agency regulating Sports and their constitution and powers and functions, Legal Regulation of Drugs in Sports, Doping- Anti Doping, World Anti- Doping Code , World and National Anti-doping Agency. Dispute resolution in Sports : Arbitration and other ADR Methods, International Disciplinary procedures, enforcement of awards and sanctions.

Module III - Indian Law and Sports

Sports and Indian Constitution, The role of Ministry of Youth Affairs and Sports and National Sports Federations, Sports Authority of India, National Anti-Doping Agency, Board of Control for Cricket in India; The National Sports Policy, 2001 and Draft Sports Policy 2007, Central and State schemes for Sports achievers , Judicial Contribution for the development of Sports Law in India.

Module IV – Sports and Special Issues

Gender Discrimination-Women and sports, The International Olympic committee, Gender testing and Human Rights; Commercialization of Sports, Labour and Contractual Issues, Participation Agreement, Standard Sponsorship agreement, Model Agreement between clubs and players, Sports Injuries, Taxation and Sports, Sports Broad casting; Betting : Meaning, legalization of Betting in India and Betting in Cricket and other sports; Match- fixing

Module V: Safety & Liability in Sports:

Violence in Sports and Sports Injuries – Meaning, Criminal and Civil Liability, Liability of officials and organizers; Defences in criminal law; Tort and extending tortious liability; Compensation in torts, Safety of spectators and participants and stadium safety.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Mudgal Mukul – Law and Sports in India: Developments, issues and Challenges, LexisNexis-Butterworth’s Publication, Wadwa Nagpur, 2015.
- Anderson Jock – Modern Sports Law, Hart Publication, 2010.
- Goel - Encyclopedia of Sports & Games, 2013
- Dorling Kindersley - The Sports Book: The Sports. The Rules. The Tactics. The Techniques, DK Publication, 2016

- Anujaya Krishna – Sports Law, Universal Publication, New Delhi, 2014
- Simon Gardiner and Mark James-Sports Law, third edition, Cavendish Publishing Ltd.
- David Griffith Jones-Law and the business of sports, Butterworths publishers.
- Edward Grayson-Sport and the Law, Tottel Publishing.
- William J Stewart-Sport and the Law: The Scott Perspective, T&T Clark Edinburgh 2000.
- Mitten Davis and Smith Berry-Sports Law and Regulations, Aspen Publishers, Wolters Kluwer (Law and Business)

Law and Education (Constitutional Law Hons Paper- III)

Course Code : LLB 805 CP

Credit Units: 04

Course Objective:

This paper is designed as a beginning law course for Law students. Topics to be studied include historical aspect and further development of education and to apply the knowledge over state under the constitutional, statutory, and regulatory provisions and judicial decisions governing a state's educational system, teacher rights, and rights of students, instructional issues, tort liability, and equal opportunities in education.

Module I:- Introduction

Resources in educational law - Historical Perspective of Educational Law. The constitution & introduction to the Indian legal system - Introduction; Powers and Functions of the Higher education.

Module II:-Constitution and Right to Education

Role of the central and state government in education. Constitutional Rights and Freedom of Individuals: Duties of State and Parent; Right to governance of public schools and college, Cultural and Educational rights; Right to Education Act.

Module III:-Right and duties of teacher and student

STUDENT RIGHTS: Speech, Expression, Freedom of Religion and Privacy; Student Publications; Search and Seizure; Gangs, and violence in schools. TEACHER RIGHTS & FREEDOMS, Freedom of Speech and Expression, Freedom of Religion, Immunity under the various law.

Module IV:- Anti-Ranging Law

Anti-Ranging Movement, Various Types of Ragging, **UGC Regulations**, Punishment for Participation in/or Abetment of Ragging under IPC and other laws, Affidavit by students and parents, self declaration by parents/guardians, Supreme Court and Ranging.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Yadav, RP, Right to Education, 2014, Jain book Agency.
- Dr. Kumar, Surendra, Human Right Education, 2012, Jain book Agency.
- Dr. Pandey, JN, Constitution of India, 39th ed.2006, Central Law Agency.
- P.D.Mathew (Ed.), for Indian Social Institute (ISI), The Landmark Judgement of the Supreme Court on Educational Rights of MINORITIES, 2002. Jain Book Agency.

Course Name	Course Code	LTP	Credit	Semester
Law and Education (Constitutional Law Hons Paper- III)	LLB 805 CP	3:1:0	04	8

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Analyze the need and importance of Right to education as a fundamental right
CLO 2	historical aspect and further development of right to education
CLO 3	Understand about the barrier to achieve 100% of literacy.
CLO 4	Would be able to understand the importance of the role of Government to achieve such target.
CLO 5	What is the Constitutional status of minority regarding right to education.

• **SYLLABUS**

Course Objective:

This paper is designed as a beginning law course for Law students. Topics to be studied include historical aspect and further development of education and to apply the knowledge over state under the constitutional, statutory, and regulatory provisions and judicial decisions governing a state's educational system, teacher rights, and rights of students, instructional issues, tort liability, and equal opportunities in education.

Module I:- Introduction

Resources in educational law - Historical Perspective of Educational Law. The constitution & and introduction to the Indian legal system - Introduction; Powers and Functions of the Higher education.

Module II:-Constitution and Right to Education

Role of the central and state government in education. Constitutional Rights and Freedom of Individuals: Duties of State and Parent; Right to governance of public schools and college, Cultural and Educational rights; Right to Education Act.

Module III:-Right and duties of teacher and student

STUDENT RIGHTS: Speech, Expression, Freedom of Religion and Privacy; Student Publications; Search and Seizure; Gangs, and violence in schools. TEACHER RIGHTS & FREEDOMS, Freedom of Speech and Expression, Freedom of Religion, Immunity under the various law.

Module IV:- Anti-Ranging Law

Anti-Ranging Movement, Various Types of Ragging, UGC Regulations, Punishment for Participation in/or Abetment of Ragging under IPC and other laws, Affidavit by students and parents, self declaration by parents/guardians, Supreme Court and Ranging.

Examination Scheme:

Components	CA	A	CT	EE
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Weightage (%)	30	5	15	50
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Text & References:

- Yadav, RP, Right to Education, 2014, Jain book Agency.
- Dr. Kumar, Surendra, Human Right Education, 2012, Jain book Agency.
- Dr. Pandey, JN, Constitution of India, 39th ed.2006, Central Law Agency.
- P.D.Mathew (Ed.), for Indian Social Institute (ISI), The Landmark Judgement of the Supreme Court on Educational Rights of MINORITIES, 2002. Jain Book Agency.

COMPETITION LAWS (CORPORATE LAW HONS. PAPER-III)

Course Code: LLB 805 CG

Credit Units: 04

Course Objective:

This paper focuses on the investment and competition laws of India in the context of new economic order.

Course Contents:

Module - 01.

Introduction to Competition Act, 2002. Definitions. Prohibition of certain agreements, Abuse of Dominant position and Regulation of Combinations, Anti-competitive agreements, Abuse of dominant position, Combination. Regulation of combinations

Module - 02.

Introduction : Competition Commission of India, Establishment, Composition, Selection committee, Resignation, Removal and suspension, Administrative powers of Chairperson, Director General. Appointment of Employees of Commission,

Module - 03.

Introduction: Duties, Powers and Functions of Commission, Duties of Commission, Inquiry, Meetings, Investigation, Interim Order, Awards, Power of Compensation, Review of orders, Duties of Director General, Penalties, Competition Advocacy,

Module- 04.

Competition Appellate Tribunal [CPT], Establishment of CPT, Appeal to Appellate tribunal, Composition of Appellate Tribunal, Qualifications of Chairperson, Members, Terms of office, Selection Committee, Terms of condition of service , Resignation, Removal, Suspension, Procedure and power of Appellate Tribunal, Awarding Compensation, Appeal to The Supreme Court, Right to legal representation, Power to punish for Contempt

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Competition Act 2002
- Security Contract (Regulation) Act 1956
- SEBI Act 1992
- Depositories Act 1996
- Foreign Trade (Development & Regulation) Act 1992,
- Foreign Exchange Management Act, 1999
- Taxman's Student's Guide to Economic Laws

Trade Mark & Designs Act

(IPR HONS. PAPER-III)

Course Code: LLB 805 IPR

Credit Units: 04

Course Objective:

The course is designed to provide comprehensive knowledge to the students regarding Indian position of Trademarks Law and unfair competition which invariably form the part of Intellectual Property Law

Course Content:

Module I:

History, Evolution, Functions, Objective, Definition, Kinds of Marks,

Module II:

Domain names, Registration, Concurrent registration, Procedure for registration, Relative and absolute grounds of refusal, opposition and its grounds, Assignment, transmission and licensing of Trademarks, Infringement, Penalties and Remedies, Withdrawal of protection, Passing off, Official machinery for regulation administration and Redressal, Registrar,

Module III:

Difference between Trade Mark, Trade Secret, Traditional Knowledge and Geographical Indications, Unfair Competition,

Module IV:

TRIPS on Trademarks, Madrid Agreement for The Repression of False or Deceptive Indications of Source on Goods, 1891- Madrid Agreement for the International Registration of Marks, 1891 and protocol relating to that agreement 1989

Module V:

Geographical indications of Goods (Registration and Protection Act, 1999): History, Definition ,Rationale, Functioning, official Machinery, Registry, Rights conferred ,Registration Procedure .Redressal Machinery, Appeal ,Passing off, Offences, penalties and Procedure.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- D.P. Mittal (Taxman Publication), Indian Patents Law and Procedure
- B.L. Wadera, Patents, trademarks, copyright, Designs and Geographical Judications.
- P. Narayanan (Eastern Law House), Intellectual Property Law
- W. Cornish (Universal Publication), Intellectual Property Law
- R.K. Nagarjan, Intellectual Property Law
- Ganguli (Tata Megraw), Intellectual Property Rights

Course Name	Course Code	LTP	Credit	Semester
Dispute Settlement and International Trade Law and Investment Law (International Trade law- Hon. Paper –III)	<u>LLB 805 ITL</u>	3:1:0	04	8

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Skill to understand the concept of intellectual property rights.
CLO 2	Develops procedural knowledge to Legal System and solving the problem relating to intellectual property rights.
CLO 3	Employability as the Compliance Officer, Public Relation Officer and Liaison Officer.
CLO 4	Establishment of Legal Consultancy and service provider.

• **SYLLABUS**

Module 1

Settlement of Disputes in International Trade Law

Methods of Settlement of Disputes, ADR and International Trade Disputes, International Arbitration, Conciliation, Mediation and Litigation, Enforcement of Arbitral Awards, UNCITRAL Model of Settlement of Disputes

Module 2

Dispute Settlement Mechanism within the WTO

Principles for the settlement of disputes, Procedures for the settlement of disputes: Panel and Appellate review, Enforcement procedure for the settlement of disputes

Module 3

International Centre for Settlement of Investment Disputes

Overview of ICSID, Resolution of Investors State Dispute with specific reference to Washington Convention 1965, Preliminary issues in respect of jurisdictional proceedings, Essentials for the jurisdiction of ICSID, patterns of consent and meaning of foreign investment under Article 25 of the ICSID.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- International Trade Law and the GA TT/ WTO Dispute Settlement System (Kluwer Law International, The Hague, 1997).
- Joseph Gold, Interpretation: IMF and International Law (Kluwer Law International, 1986).

- Palmeeter and Mavroids, *Dispute Settlement in the World Trade Organisation* (Kluwer Law International, 1999).
- Pescatore, Pierre, Davey, William J. & Lowenfeld, A. F., *Handbook of WTO/GATT Dispute Settlement* (Transnational Publishers, New York, 1997).
- Petersmann, Ernst-Ulrich, *The GATT/WTO Dispute Settlement Systems: International Law, International Organisations and Dispute Settlement* (Kluwer Law International, The Hague, 1997).
- Pratap, Ravindra, *India at the WTO Dispute Settlement System* (Manak Publications PA. Ltd, 2004)
- Todd Weiler, *International Investment Law and Arbitration: Leading Cases from the ICSID, NAFTA, Bilateral Treaties and Customary International Law*, Cameron, 2005.
- Sornarajah, *The International Law on Foreign Investment* (Cambridge: Grotius, 1994), 357-414.

Course Name	Course Code	LTP	Credit	Semester
Forensic Science-I Criminal Law Hon. Paper- III	<u>LLB 805 CRL</u>	3:1:0	04	8

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explore and explain the substantial & procedural laws in which they are made/ drafted and how students think and understand the legislative setup.
CLO 2	Interpret and analyze the legal and social problems and work towards finding solutions to the problems by application of laws and regulations.
CLO 3	Inculcate values of Rights and Duties, and transfer these values to real-life through legal and judicial process for promoting community welfare.
CLO 4	Apply ethical principles and commit to legal professional ethics, responsibilities and norms of the established legal practices.
CLO 5	Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broader context of legal change.

• **SYLLABUS**

Course Objective:

The teaching of objective evidence is decisive to a student who comes across the criminal cases with the question of life and death. While key evidence in criminal cases may have come from witnesses or other subjective means in the past, forensic science allows for objective evidence. With the help of advance technology and measures the access to the crime and criminal becomes easier. Therefore, the course is designed to acquaint the students the method of collecting evidences from crime scene and contribution of Forensic Science in making testimonial documents to be produced before the court. To study the examination of various objects that can be a sample of evidence while proving or disproving the offence, emphasis has been laid down to in context to Indian Criminal Judicial System so that student develops the scientific approach in advance system and skill to determine and solve the case problems.

Course Contents:

Module 1: Introduction to Forensic Science

- Basic principles and Significance
- History and Development of Forensic science
- Organizational structure of Forensic laboratories/ institutions in Central and State
- Role of Forensic Scientists, medico-legal doctors
- Expert testimony, corpus delecti

Module 2: Indian Criminal Justice System in Forensic Science

- Police System, Prosecution and Judicial Organisation
- Criminal Procedure Code: Deposition of Medical Witness- Section 291, 291A, 292, and 293
- Indian Evidence Act: Section 32, 45, 46, 47, 57, 58, 60, 73, 135, 136, 137, 159

Module 3: Crime Scene Management

- Defining Scene of Crime
- Managing a crime Scene and its Hierarchy

- Role of First Responding Officers
- Search Patterns of a Crime Scene
- Crime Scene Documentation
- Collection, Packing Labeling and Forwarding and Exhibits to Forensic Laboratories
- Preservation Of evidences
- Legal Protocols while maintaining Scientific Integrity

Module 4: Crime Scene Evidences that are encountered:

- Establishment of Identity of Individuals: Anthropology, Branding, Tattooing, Mutilating, Scars and Mole, Bertillon system, photography, fingerprints, ridge characteristics, Proscopy, footprints, DNA, hair, skin, Viscera, blood, semen and other biological fluids physical particulars, Anthropology, Odontology
- Establishment of Identity of Physical Objects: by shape and size of object, types and Trade marks, bite and tool marks, rupture and fracture marks, Shoe Prints, Tyre marks
- Establishment of identity of object by physical and chemical analysis: Fibres and Fabrics, Glass, Soil, Pollen and Paints, toxicological Analysis, Explosive and Fire Scene Investigation.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Richard Saferstein, Criminalistics: An Introduction to Forensic Science (12th Edition)
- Nishant Singh, Forensic Science: Principles & Concepts, 2011
- Dr. Mrs Rukmani Krishnamurthy, Introduction to Forensic Science in Criminal Investigation , 2015
- Nanda, B.B. and Tewari, R.K. (2001) Forensic Science in India: A vision for the twenty first century Select Publisher, New Delhi
- N. Gilbert (1993) Criminal Investigation; Third edition, Macmillan Publishing company.
- Bernard Robertson and G.A. Vignaur (1995) Interpreting evidence John Wiley and Sons Ltd.
- Sharma, B.R. (1974) Forensic Science in Criminal Investigation and Trials, Central Law Agency, Allahabad.
- James, S.H and Nordby, J.J. (2003) Forensic Science: An introduction to scientific and investigative techniques CRC Press
- Saferstein : Criminalistics (1976) Prentice Hall Inc., USA.
- Deforest, Gansellen & Lee : Introduction to Criminalistics.
- Hess, A.K. and Weiner, I.B. (1999) Handbook of Forensic Psychology 2nd Ed. John wiley & sons.
- Bruce A. Arrigo (2000) Introduction to Forensic Psychology Academic Press, London
- J A Siegel, P.J Saukko (2000) Encyclopedia of Forensic Sciences Vol. I, II and III, Acad. Press
- Hand Book of Forensic Psychology – O’ Donohue Levensky
- Virginia A. Lynch (2011) and Janet Barber Duval: Forensic Nursing Science.
- Kleiner, Munay (2002) Handbook of Polygraph testing. Academic Press.
- Kirk (2000) Vehicular Accident investigation and reconstruction.
- H. James, Wouldiam G. Eckert (1999) Interpretation of Blood stain evidence at Crime Scene, 2nd edition, CRC Press.
- Lundquest & Curry (1963) Forensic Science, Vol I to IV, Charles C. Thomas, Illinois, USA.
- Kirk (1953) Criminal Investigation Interscience Publisher Inc. New York.
- Sharma B. R. (1980) Footprints, Tracks and Trials. Central Law Agency. Allahabad.

Course Name	Course Code	LTP	Credit	Semester
Gender Justice And Feminist Jurisprudence (Constitutional Law Hons Paper - IV)	<u>LLB 806 CP</u>	3:1:0	04	8

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	To enable students to understand the Constitutional Provision related to equality.
CLO 2	To understand the different doctrine for equality.
CLO 3	To know the various laws which protect the rights of women.
CLO 4	To know the role of the Indian Judiciary for protecting the right of Women.

- SYLLABUS**

Course Object:

Feminist jurisprudence is the study of the construction and workings of the law from perspectives which foreground the implications of the law for women and women's lives. This study includes law as a theoretical enterprise as well as its practical and concrete effects in women's lives. Further, it includes law as an academic discipline, and thus incorporates concerns regarding pedagogy and the influence of teachers.

Module I- Women in Pre-Independence India Social and legal inequality; Social reform movement in India; Gandhian movement; Nehru's views – joint family etc.; Karachi congress – Fundamental Rights Resolution; Equality of sexes.

Module II- Women in Post-Independence India Preamble of the Constitution – Equality provisions in fundamental Rights and Directive Principles of State Policy. Negative Aspects of the Constitution – Exploitation of sex not mentioned in Article 23. Different personal laws – unequal position of women. Uniform Civil Code towards gender justice. Indian tradition and family ideology; growth of feminism and schools of feminism.

Module III- Sex Inequality in Inheritance Rights Continuance of feudal Institutions of joint family – women's inheritance position under Hindu Law. Inheritance right of women under Christian law. Inheritance right of women under Parsi law. Inheritance right of women under Muslim law. Movement towards uniform Civil Code.

Module IV- Matrimonial relations and its consequences

Matrimonial Property. Separation of property. Maintenance of different system of personal law. Division of assets on divorce.

Module V- Social Welfare Laws for Women and Non-implementation of protective labour legislation.

Maternity benefits Act. Equal remuneration Act. Factories Act. Inequality in the work place. Additional burden of domestic responsibilities.

Examination Scheme:

Components	CA	A	CT	EE
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Weightage (%)	30	5	15	50
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Text & References:

- Flevia Agn's et. al. Women and the Law
- Meynei Hindu Woman & Marriage
- Dr. Pandey, JN, Constitution of India, 39th ed.2006, Central Law Agency.
- Labour Law. Taxman

Course Name	Course Code	LTP	Credit	Semester
Bankruptcy and Insolvency (Corporate Law Hons Paper - IV)	<u>LLB 806 CG</u>	3:1:0	04	8

- **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Learn about History and development of Bankruptcy and Insolvency laws across the Globe.
CLO 2	Learn about new Insolvency and Bankruptcy Code, 2016
CLO 3	Learn about the procedural aspects for Bankruptcy and Insolvency for various entities.
CLO 4	Learn about Regulation of Insolvency professionals, Agencies and Information utilities pedagogy/ Instruction Methodology.
CLO 5	Learn about other provisions and Legislations impacting Bankruptcy and Insolvency Laws.

- **SYLLABUS**

Course Objectives:

The most important objective behind learning of bankruptcy and insolvency laws is to have a proper understanding of the procedures and to identify the issues that may arise related to Bankruptcy and Insolvency especially for the students who are pursuing Honours Degree course in Corporate Governance branch.

This course covers a vast domain of the Corporate world and is of managerial relevance. Students will have an opportunity to focus on strategies to manage the matters of Bankruptcy and Insolvency in their professional practice. It will surely develop the student's entrepreneurship skills with the impact of Global technology and will enable them to Manage the emerging Corporate issues relating to Bankruptcy and Insolvency.

Course Contents:

Module I Introduction, History of Bankruptcy and Insolvency Laws:

Various Committees and Recommendations: Shri. T. Tiwari Committee, Justice V.B. Balakrishna Eradi Committee, N L Mitra Committee, JJ Irani Committee, Bankruptcy Law Reforms Committee, Board for Industrial and Financial Reconstruction (BIFR), Appellate Authority for Industrial and Financial Reconstruction (AAIFR)

International Scenario:

International Scenario of Laws on Bankruptcy and Insolvency, UNCITRAL Laws on Cross Border Insolvency, International Association of Insolvency Regulators (IAIR), International Association of Restructuring, Insolvency & Bankruptcy Professionals, Comparative Laws U.S. and U.K.

Module II The Insolvency and Bankruptcy Code, 2016:

Rules and Regulations under the Bankruptcy Code: Insolvency Resolution and Liquidation for Corporate persons, liquidation process, fast track corporate insolvency resolution process, voluntary liquidation of corporate persons, adjudicating authority for corporate persons, offences and penalties.

Module III Insolvency Resolution and Bankruptcy for Individuals and Partnership firms:

Fresh start process, Insolvency Resolution process, Bankruptcy order for individuals and partnership firms, Administration and distribution of the estate of the bankrupt, Adjudicating authority for individuals and partnership firms, offences and penalties, Role of NCLAT and NCLT in Corporate Insolvency Resolution

Module IV Regulation of Insolvency professionals, Agencies and Information utilities

The Insolvency and Bankruptcy Board of India, Powers and Functions of the board, Insolvency Professional Agencies, Insolvency professionals, Information utilities, Inspection and investigation, Finance, Accounts and Audit, Miscellaneous provisions.

Module V Other Relevant Regulations

The Recovery of Debts Due to Banks and Financial Institution Act 1993, The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interests Act- 2002, relevant Provisions of The Companies Act 2013, relevant provisions of The Transfer of Property Act-1882, Relevant provisions of The Code of Civil Procedure-1908, Corporate Debt Restructuring Scheme, Strategic Debt Restructuring, Scheme for Sustainable Structuring of Stressed Assets.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Handbook for The Insolvency and Bankruptcy Code, 2016, Author: C.A. G Sekar, EAN: 9789351297741
- Insolvency and Bankruptcy Code 2016, Bare Act, Publisher: Taxmann (2016), ISBN-10: 9350719134, ISBN-13: 978-9350719138
- Insolvency and Bankruptcy Code, 2016 Concepts and Procedure, Jyoti Singh, Publisher: Bloomsbury India (28 December 2016), ISBN-10: 9386141728, ISBN-13: 978-9386141729
- Guide to Insolvency and Bankruptcy Code 2016 (2017 Edition), Taxmann Publications Pvt. Ltd.; 2017 Edition, ISBN-10: 9386189925, ISBN-13: 978-9386189929.
- Law of Insolvency & Bankruptcy, S.R. Myneni, Allahabad Law Agency; First edition (2017), ISBN-10: 9381587329, ISBN-13: 978-9381587324.
- The Insolvency and Bankruptcy (Application to Adjudicating Authority) Rules, 2016
- The Insolvency and Bankruptcy Board of India (Insolvency Resolution Process for Corporate Persons) Regulations, 2016
- The Insolvency and Bankruptcy Board of India (Liquidation Process) Regulations, 2016
- The Insolvency and Bankruptcy Board of India (Insolvency Professional Agencies) Regulations, 2016.
- The Insolvency and Bankruptcy Board of India (Insolvency Professionals) Regulations, 2016
- The Insolvency and Bankruptcy Board of India (Model Bye-Laws and Governing Board of Insolvency Professional Agencies) Regulations, 2016.
- Overview of Insolvency Laws in India Including Corporate Insolvency by CARajkumar S. Adukia.
- Bankruptcy and Insolvency Basics for Lawyers, by Geoffrey H. Dabbs of GehlenDabbs, Vancouver, BC, for the Continuing Legal Education Society of British Columbia, February 2011.
- Halsbury's Law of England, Vol. 3(2) on Bankruptcy and Insolvency (1989)

Course Name	Course Code	LTP	Credit	Semester
ADVANCE IPR (IPR Hons. Paper-IV)	<u>LLB 806 IPR</u>	3:1:0	04	8

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explore and explain the substantial & procedural laws in which they are made/drafted and how students think and understand the legislative setup.
CLO 2	Interpret And Analyze the legal and social problems and work towards finding solutions to the problems by application of laws and regulations.
CLO 3	Inculcate values of Rights and Duties, and transfer these values to real-life through legal and judicial process for promoting community welfare.
CLO 4	Apply ethical principles and commit to legal professional ethics, responsibilities and norms of the established legal practices.
CLO 5	Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broader context of legal change.

• **SYLLABUS**

Course Objective:

To acquire knowledge of the legal, procedural and practical aspects of Advanced IPR

Course Content:

Module-1

Fundamentals of IP Rights Contract

Agreement, Offer & Acceptance, Consideration, Capacity, Consent, Legality of Object

Void Contract, Voidable Contract, Illegal Contract, Discharge of Contract

Module-2: Licensing Agreement

Benefit of Licensing, Licensing of the Basic Intellectual Property ,Patent ,Trademark, Copyright, Industrial Design

Module-3: Licensing and the Transfer of Technology

Introduction, The Commercial Transfer and Acquisition of Technology , Negotiation of Licensing Agreements, Remuneration

Module-4: Emerging Area of IPR

Intellectual Property Rights and Human Rights, Protection of Traditional Knowledge and IPR, Biodiversity and IPR, IPR and Transfer of Technology, Biotechnology and Bioethical Implication of IPR, **Competition Law and IPRs**

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Silke von Lewinski (Edited), *Indigenous Heritage and Intellectual Property, Genetic Resources, Traditional Knowledge and Folklore*, 2nd Edition, (2008), Wolters Kluwer.
- Paul L.C. Torremans (edited), *Intellectual Property and Human Rights, Enhanced edition of Copyright and Human Rights*, (2008), Wolters Kluwer
- Adam Liberman, Peter Chroczel & Russell E. Levine (Edited), *International Licensing and Technology Transfer: Practice and the Law* (2008), Wolters Kluwer
- K D Raju, *The Intellectual Property Rights & Competition Law A Comparative Analysis*, LexisNexis (2015)

Course Name	Course Code	LTP	Credit	Semester
International Trade Remedies (International Trade law- Hon. Paper –IV)	<u>LLB 806 ITL</u>	3:1:0	04	8

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Inculcate values of Rights and Duties, and transfer these values to real-life through legal and judicial process for promoting community welfare.
CLO 2	Apply ethical principles and commit to legal professional ethics, responsibilities and norms of the established legal practices.
CLO 3	Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broader context of legal change

- SYLLABUS**

Course Objective

International trade has assumed great importance in 21st century and its regulation under law has become a necessity to prevent exploitation of the weaker people. A new legal regime to regulate international trade is emerging. Students of law should have understanding of these developments. This course is worked out to provide the future lawyers relevant inputs in the area of international trade law.

Course Content:

Module I:

Agreement on Dumping and Anti-Dumping duties: Definition of Dumping, Scope of the Agreement, Procedure for applying Anti-dumping duties.

Module II:

Agreement on Subsidies and Counter Countervailing measures: Definition of Subsidy, Actionable/ Non-Actionable subsidies, subsidies and the developed countries, Countervailing measures- Law and Procedure.

Module III:

WTO Competition Policy: Articles VIII and IX of the GATS, The elements of the Competition Law, WTO and International Law of Competition Policy.

Module IV:

Dispute Settlement under GATT, Dispute settlement under WTO, Dispute Settlement Body, Decision making in the DSB and its enforcement.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Koul, A.K. (2001) World Trade Organisation, Satayam Publication.

- Results of the Uruguay Round of Multilateral Trade Negotiations: The Legal Texts (Geneva: GATT Secretariat, 1994).
- Hudec, Robert E., Developing Countries in the GATT Legal System (London: Gower Press for the Trade Policy Research Centre, 1987).
- Jackson, John H., World Trade and the Law of GATT (Indianapolis: Bobbs-Merrill, 1969).
- Pratap, Ravindra, India at the WTO Dispute Settlement System (New Delhi: Manak Publications, 2004).
- Srinivasan, T. N., Developing Countries and the Multilateral Trading System: From the GATT to the Uruguay Round and the Future (Delhi: Oxford University Press, 1998).
- Akakwam, Philip A., "The Standard of Review in the 1994 Antidumping Code: Circumscribing the Role of GATT Panels in Reviewing National Antidumping Determination", Minnesota Journal of Global Trade, vol. 5, no. 2 (1996), p 277.
- Bhagwati, Jagdish and Hudec, Robert E, Fair Trade and Harmonization: Prerequisites for Free Trade (Cambridge, Mass.: MIT Press, 1996) vol. 2 (Legal Analysis).
- Bierwagen, Rainer M., GATT Article VI and the Protectionist Bias in Anti-Dumping Law

Course Name	Course Code	LTP	Credit	Semester
Forensic Science-II Criminal Law Hon. Paper- IV	<u>LLB 806 CRL</u>	3:1:0	04	8

- **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explore and explain the substantial & procedural laws in which they are made/drafted and how students think and understand the legislative setup.
CLO 2	Interpret and analyze the legal and social problems and work towards finding solutions to the problems by application of laws and regulations.
CLO 3	Inculcate values of Rights and Duties, and transfer these values to real-life through legal and judicial process for promoting community welfare.
CLO 4	Apply ethical principles and commit to legal professional ethics, responsibilities and norms of the established legal practices.
CLO 5	Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broader context of legal change.

- **SYLLABUS**

Course Objective:

Forensic science is the combination of two different Latin words: forensis and science. The former word forensic is relates to a discussion or examination performed in public. Forensic science is a Science is to collect, preserve, and analyze scientific evidence during the course of an investigation. While some forensic scientists travel to the scene of the crime to collect the evidence themselves, others occupy a laboratory role, performing analysis on objects brought to them by other individuals. It is today closely tied to the scientific method and a systematic way of acquiring knowledge. Taken together, forensic science can be seen as the use of the scientific methods and processes in crime solving. Forensic evidence, based as it is on the scientific method, is seen as more reliable than even eyewitness testimony. In a judicial system which maintains that the accused is innocent until proven guilty, evidence gathered by forensic scientists is now regularly used by both the defense and the prosecution in many court cases.

Course Objective:

The teaching of objective of evidence is decisive to a student who comes across the criminal cases with the question life and death. While key evidence in criminal cases may have come from witnesses or other subjective means in the past, forensic science allows for objective evidence. With the help of advance technology and measures the access to the crime and criminal becomes easier. Therefore, the course is designed to acquaint the students the method of collecting evidences from crime scene and contribution of Forensic Science in making testimonial documents to be produced before the court. To study the examination of various objects that can be a sample of evidence while proving or disproving the offence, emphasis has been laid down to in context to Indian Criminal Judicial System so that student develops the scientific approach in advance system and skill to determine and solve the case problems.

Course Contents:

Module 1: Medical Jurisprudence

- Brief history and current scenario at National and International Level
- Forwarding of biological samples to Forensic science Laboratories

Module 2: Medico-Legal Aspects of Death

- Time of Death
- Cause and manner of death

- Human anatomy and physiology in brief
- Injuries: Classification, forms and medico-legal aspects
- Understanding of Post-Mortem reports and dying declaration

Module 3: Recent Advances in Forensic Science and the laws

- Forensic Speaker Identification
- Cyber Crime Forensics
- Narco-analysis
- Brain-mapping
- Polygraph
- Facial Reconstruction
- Preventive Forensics
- DNA Fingerprinting

Module 4: Common Problem encountered while Expert Witness Testimony

- Understanding the Necessity of Expert witness testimony
- Who are Expert
- Selecting an expert
- Credibility, Demonstrating a command of the scientific Knowledge associated with their area of Expertise
- Procedures of the court and the Evidence admissibility standard in their jurisdiction
- Demonstrate scientific objectivity, No Bias in action or explanation
- Communication within the court (Credibility and subject expertise)
- Back hand process of preparing the line-up of Question and deciding the value of the testimony
- Leading questions

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Modi, J.K. (1988): Medical Jurisprudence & Toxicology, N.M. Tripathi Pvt. Ltd.
- Saferstein, R (1982) Forensic Science Hand Book, Vol I, II and III, Pretince Hall, NI
- Text book of Forensic Medicine by Krishan Vij; B.I. Churchill Livingstone Pvt. Ltd. 2001.
- Craniofacial Identification in forensic Medicine, edited by John. G Clement and David. L. Ranso; Oxford University, Press; 1998.
- Chowdhuri, S. (1971): Forensic Biology, B P R & D, Govt. of India.
- Dunsford, I. and Bowley, C. (1967): Blood Grouping Techniques, Oliver & Boyd, London.
- Chatterjee, C. C- (1975): Human Physiology.
- Saferstein, R (2000) Criminalistics.
- Curry (1986) Analytical Methods in Human Toxicology, Part II.
- Curry, A.S. (1976) Poison Detection in Human Organs.
- Mathew E. Johll (2009) Investigating Chemistry: A Forensic Science Perspective
- Suzanne Bell (2009) Drugs, Poisons, and Chemistry
- DFS Manuals of Forensic Chemistry and Narcotics.
- A Naquest (1984) legal chemistry. a guide to the detection of poisons, examination of tea, stains, etc.
- Forensic Taphonomy, edited by Wouldiam D. Haglernd, Marculla H. Sorg; CRC Press, LLC, 1997.
- Glaister (Ed)-Rentoul & Smith (1973) : Forensic Medicine & Toxicology, Churchill Livingston, Edinburgh.

Course Name	Course Code	LTP	Credit	Semester
BANKING AND INSURANCE LAWS (Optional Paper)	<u>LLB 808</u>	3:1:0	04	8

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Acquaint students with banking system of India.
CLO 2	Acquaint students with banking system of India.
CLO 3	Various aspects and rights that exists for them in Insurance sector.

• **SYLLABUS**

Course Objective:

This course acquaints students with banking system of India and teaches them the various aspects and rights that exist for them in banking and insurance sector.

Course Contents:

Module I: Banking System in India

Evolution of banking institutions, Bank, Types and functions of bank, Nationalization of Banks, Reserve bank of India, Constitution, Powers and Functions of Reserve Bank, Commercial Banks, Functions of Commercial Banks, Licensing of Banking Companies, Money Laundering, Banking Ombudsman.

Module II: Banker and Customer Relationship

Definition of banker and customer, Norms for opening an account, Banker's duty of secrecy, Banker's duty to honor cheques, Banker's lien, Banker's right to set off, Appropriation of payments, Garnishee order, Customer's duties towards his banker, Credit card, Debit/Smart cards, Stock investments.

Module III: e-Banking and law relating to Negotiable Instruments

Nature and Scope of e-Banking, Internet/Online banking, Mobile banking, Automated Teller Machine (ATM), Kinds of Negotiable instruments, Holder and Holder in due course; Concept of Negotiation, Negotiability, Assignment, Presentment and Endorsement; Liability of parties, Dishonor of cheques, Evidentiary value of Banker's book, Concept of Interim compensation.

Module IV: Insurance Law

History and Development of Insurance law in India; Kinds of Insurance – Life, Health and Property Insurances; Principles of Insurance, Relevant provisions of Insurance Act, 1938 and Insurance Regulatory and Development Authority Act, 1999; Meaning, Elements and Scope of risk, *causaproxima*, Assessment of the subject matter.

Module V – Drafting Exercises

- Drafting of application for complaint to Banking Ombudsman
- Drafting of A Promissory Note
- Drafting of Notice in case of Dishonor of Cheque

- Drafting of Complaint in case of Dishonor of Cheque
- Drafting of Complaint to Insurance Regulatory and Development Authority
- Drafting of petition in DRT & DRAT's

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text, Statutes & References:

- Taxman's, M.L; Banking Law and Practice in India; LexisNexis
- <https://www.irdai.gov.in/>
- www.rbi.org.in/Upload/Publications/PDFs/BOL.pdf
- Drafting, Pleading and Conveyancing – MedhaKolatkhar - LexisNexis
- Mogha's Law of Pleading in India – Eastern Law House
- Murthy, K.S.N and Sarma K.V.S.; Modern Law of Insurance in India; LexisNexis
- Basu, Saroj Kumar, Review of Current Banking Theory and Practice; Macmillan
- Hardy Ivamy, E.R.; General Principles of Insurance Law; LexisNexis
- The Negotiable Instruments Act, 1881
- The Insurance Act, 1938
- The Insurance Regulatory and Development Authority, 1999
- The Reserve Bank of India Act, 1934

Course Name	Course Code	LTP	Credit	Semester
AIR AND SPACE LAW (Optional Paper)	<u>LLB 809</u>	3:1:0	04	8

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Demonstrate advanced and integrated knowledge of the key principles, rules and institutions relating to the air and space law.
CLO 2	Apply specialised knowledge of the key rules and legal policy issues relating to the law regimes on civil aviation, aviation insurance, liability for aviation risks and criminal activity during international air travel.
CLO 3	Demonstrate advanced knowledge of the key international treaties relating to outer space and their legal status in international law.
CLO 4	Analyse the key rules and policy issues relating to the space objects, commercial use of outer space and the use of outer space for military purposes.
CLO 5	Critically evaluate the current status and effectiveness of the key treaties, rules and institutions of international air and space law

• **SYLLABUS**

Course Objective:

To impart basic principles and rule of international laws affecting air, space and outer space.

Module I Introduction and Scope of Air Law

Air Law: definition scope, history and principles. International Institutions: membership, organs and functions. Right to fly: sovereignty over the Air space. Air Transport agreements: non- scheduled flights, Paris Agreement, 1956. Scheduled air services. Transit rights: traffic and ancillary rights. Licensing of Air ports, Provision of air and air navigation facilities.

Module II Law relating to Aircraft

Aircraft: definition, classification and legal nature, State aircraft. International recognition of rights in aircraft. Jurisdiction over aircraft, Crimes on board: search, seizure and arrest, Legal regime of crew, International standards and recommended practices. Warsaw Convention, Law relating to carriage by air; Liabilities arising from operation of aircraft and air services, trespass, nuisance, collision

Module III Introduction and scope of Space Law

Space Law: definition scope, history and principles, International control and cooperation, extraterrestrial application of international law, United Nations treaties on outer space.

Module IV Law Relating to Outer Space

Outer space: definition, scope, history and principles, Legal regime of outer space: national and International, Legal status of astronauts spacecraft and space objects. Military uses of outer space, Commercial uses of outer space, Indian Space Policy.

Module V Emerging Issues in Space Law

1. Legal issues relating to protection of Environment: Space debris
2. Legal issues relating to Space tourism
3. Legal issues relating to Space Insurance
4. Legal issues relating to space resource exploration

Acts and Statutes (As Amended)

1. The Carriage by Air Act, 1972
2. The Space Treaty 1967
3. The Rescue Agreement 1968
4. The Liability Convention 1972
5. The Registration Convention 1975
6. The Moon Treaty 1979
7. Department of Space (DOS), Indian Space Research Organization (ISRO), Space policies.

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Diederiks, I. H. Ph. Verschoor: *An Introduction to Air Law*; Kluwer Law International
- Mani, V.S. Bhatt. Saligram and Reddy, V. Balakista, *Recent Trends in International space and policy: Lancers Books.*
- Singh, Avatar: *The Law of Carriage* Eastern Book Company.
- Sandeep Bhat B., *Space Law In The Era Of Commercialization*, Eastern Book Company
- V s mani, recent trends in international space law and policy, lancer's books
- Francil lyall and paul b larsen, *space law: a treatise*, ashgate
- Fabio Torchetti, *The Exploitation Of Natural Resources Of Moon And Other Celestial Bodies*, Martinius Nijhoff

Course Name	Course Code	LTP	Credit	Semester
Corporate Financing (Corporate Law Hons. Paper-V)	LLB 905 CG	3:1:0	04	9

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	It will enable students to understand the policies of corporate financing law.
CLO 2	The students would be in a position to analyze market transactions.
CLO 3	It will enhance knowledge, develop skills, and build capacities and competencies of the students in tackling issues relating to capital market.

- SYLLABUS**

Course Objectives:

The Law of Corporate Finance examines the private law rules governing how companies raise finance. It examines the legal issues arising out of the operation of the capital markets as intermediaries between investors and issuers; it focuses on the regulation of capital-raising through the markets. The course aims at a comprehension to understand the principles and policies of corporate finance law, and to familiarize students with the actual practices of the markets and main transactions.

Course Content:

Module I: Nature of Financial Management

Introduction, Scope of Finance, Finance function, Financial Manager's Role, Working capital, Financial Goal-profit maximization and wealth maximization, Significance of Financial Management

Module II Equity Finance & Debt Finance

Share capital, Prospectus - information disclosure, Issue and allotment of Shares, Shares without monetary consideration. Debentures: Nature, issue and class, Convertible debentures, Creation of charges, Fixed and floating charges.

Module III: Conservation of Corporate Finance & Protection of Investors

Payment of Dividend, Managerial remuneration, Buyback of shares. Individual share holder right, Corporate membership right, Derivative actions, Transfer and transmission of Shares, Dematerialization of securities, Legal Regime for Protection of Investors.

Module IV: Corporate Fund Raising

Depositories, Public financing institutions, Mutual fund, FDI

Module V: Administrative Regulation on Corporate Finance

SEBI, Investigation of Company

Module VI: Micro Small and Medium Enterprises: Regulatory and Legal Framework

Significance and objective of MSME Development, Micro, Small and Medium Enterprises Development Act 2006 – Classification of Enterprises, Measures for promotion, development and enhancement of MSME, Registration of MSME, Udyam Registration, Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012, Recent Developments

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Philip Wood, *Regulation of International Finance*, Sweet & Maxwell, 2007.
- EilisFerran, *Principles of Corporate Finance Law*, Oxford University Press, 2008.
- EilisFerran, *Company Law and Corporate Finance*, Oxford University Press, 1999.
- Avtar Singh: *Company Law*, 2009
- K. Majumdar: *Company Law and Practice* 2013
- <https://msme.gov.in/>
- Handbook for MSME Entrepreneurs – The Institute of Company Secretaries of India (ICSI)
- Micro, Small and Medium Enterprises in India – Taxmann Publication
- The Story of Indian MSMEs: Despair to Dawn of Hope - by Dr B. Yerram Raju-Konark Publishers

Course Name	Course Code	LTP	Credit	Semester
IPR MANAGEMENT (IPR HONS. PAPER-V)	LLB 905 IPR	3:1:0	04	9

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explain the conceptual and operational parameters of various special principles/doctrines of Intellectual Property Management.
CLO 2	Apply Intellectual Property Management to assist the aggrieved party in getting justice from the court of law.
CLO 3	Critically understand the efficacy of the above said law.

- SYLLABUS**

UNIT-I-INTRODUCTION

Introduction and Meaning of IPR, Importance and its implementation of IPR, Role of IP in Economic Development, Intellectual Property Rights and their Management in the Global Economy, The Legal Framework for the International, Regional, and National IP systems, Protection against Unfair Competition, Making Brands and Managing Intellectual Property, TRIPS Agreement and the WIPO Copyright Treaty, TRIPS Agreement and Legal Enforcement Issues; Collective Management

UNIT-II-THE INTERNATIONAL TRADE ORGANIZATION AND THE GATT

The GATT, its working and salient features, negotiating history of the WTO, the Dunkel Draft and the Agreement stabilizing the WTO 1994, Paris Convention for protection of Industrial Property

UNIT-III-AGREEMENTS

Agreement on Agriculture, Agreement on Textiles and clothing, Agreement on Import Licensing Procedure, The Agreement on Safeguards, General Agreement on Trade in Services, The Agreement on Trade Related Aspects of Intellectual Property Rights [TRIPS], General Provisions and Basic Principles, TRIPS and Patent Co-operation Treaty, 1970

UNIT IV: PROTECTION OF SPECIFIC IP RIGHTS UNDER TRIPS & ENFORCEMENT MECHANISM

Copyrights and related Rights, Trademarks, Geographical indications, protection plant, varieties, Industrial designs, Patents, Layout Designs, Undisclosed information, Control of anti-competitive Practices in Contractual Licenses, Civil and Administrative procedures and Remedies, Provisional Measures, Special Requirements Related to Border measures, Dispute Prevention and Settlement, Rules and procedure governing the Settlement of Disputes.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- M. B. Rao, *WTO and International Trade*
- Michael Balkency, *Trade Related aspects of Intellectual*
- Property Rights, *A Concise Guid*

Course Name	Course Code	LTP	Credit	Semester
Law of International Commercial Arbitration (International Trade law- Hon. Paper –V)	LLB 905 ITL	3:1:0	04	9

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explain the conceptual and operational parameters of various special principles/ doctrines of International Trade law.
CLO 2	Apply International Trade law to assist the aggrieved party in getting justice from the court of law.
CLO 3	Critically understand the efficacy of the above said law

• **SYLLABUS**

Course Objective:

The major concern of law is conflict resolution. Familiarization with the modalities and techniques of dispute resolution is a necessary component in the professional legal education. In recent times, we have seen the traditional justice delivery system through adjudication by courts giving way to a large extent to many an alternative modes of dispute resolution in the common law countries. Therefore, the study of Alternative Dispute Resolution is highly significant in molding the students to practice law in the ever-changing socio-economic scenario. The course tracks the development of Alternative Dispute Resolution and the process of Arbitration and Conciliation in India; including drafting and enforcing Arbitration agreements, arbitrator selection and appointment, arbitral proceedings, issuance of awards, and finally the judicial review of Arbitral Awards, both domestic and foreign.

Objectives of the Course

- To introduce the principles and processes of Non-Litigative Settlement of Disputes
- To provide a basic foundation in the mechanics of international commercial arbitration
- To make students competent to practice Alternative Dispute Settlement Mechanisms

Module 1: Introduction to International Commercial Arbitration

- Dispute resolution in international trade
- Concept and nature of arbitration
- Important terms used in international commercial arbitration
- The hybrid nature of arbitral
- process
- Types of arbitration

Module 2: Introduction to Arbitration in India

- History of Arbitration
- Basic Features of Arbitration
- Types of Arbitration
- Scope and Applicability of the 1996 Act [Part I]
- Extent of Judicial intervention

Module 3: International Commercial Arbitration Agreement

- UNCITRAL Model Law
- Commercial Arbitration Bill

Module 4: Composition and Powers of Arbitral Tribunal

- Appointment of Arbitrators

- Impartiality and Independence of arbitrators
- Jurisdiction of Arbitral Tribunal
- Competence-Competence Principle

Module 5: Drafting Exercises

- Drafting of Domestic Arbitration Clause in the main contract.
- Drafting of Domestic Arbitration Agreement
- Drafting of International Arbitration Clause in the main contract.
- Drafting of International Arbitration Agreement- Applicable Laws.
- Drafting of multi-tier arbitration clause and agreement.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- I. P. Massey, Quest for Relevance in Legal Education (1971) 2 SCC J 17.
- Munshi Premchand, Panch Parmeshwar (The Holy Panchayat) in PREM PURNIMA (1916).International Commercial Arbitration: commentary and materials by Gary B.Born (3rdEdition, 2009).
- Alternate Dispute Resolution: Dr. S.R. Myneni (2nd Edition, 2012).
- Arbitration and Alternate Dispute Resolution: Dr. N.V. Partanjape (3rd Edition).
- Text Book on Arbitration and Conciliation with Alternate Dispute Resolution: Madhusudan Saharay (2nd Edition).

Cases:

- TDM Infrastructure Pvt. Ltd vs. UE Development Pvt. Ltd. [2008 (2) ARBLR439(SC)]
- R.M. Investment Trading V. Boeing Co AIR 1994 SC11
- Venture Global Engineering v. Satyam Computer Services Ltd. (2008) 4 SCC 190
- Renu Sagar Power Co v General Electric Co. [1984 (4) SCC 679]
- Bhatia International V. Bulk Trading S.A.(2002) 4 SCC 105
- NT P C v. The Singer Company, AIR 1993 SC 998
- International Arbitration and Forum Selection Agreements, Gary Born, Kluwer Law International; 3rd Revised Edition.
- Arbitration Clauses for International Contracts, Paul Friedland, Juris Pub Inc
- Redfern and Hunter on International Arbitration, Alan Redfern, Nigel Blackaby, Martin Hunter, Constantine Partasides, Oxford Press

Course Name	Course Code	LTP	Credit	Semester
INTERNATIONAL CRIMINAL LAW (CRIMINAL LAW HONS. PAPER-V)	LLB 905 CRL	3:1:0	04	9

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	An appreciation that what appears “normal” or “just” in the context of one country’s criminal procedural laws may appear unusual or unjust in another;
CLO 2	An understanding of cross-border and international criminal law enforcement, and some of the problems they raise; A skill at spotting areas of potential misunderstanding among criminal law practitioners from different countries.
CLO 3	An understanding of cross-border and international criminal law enforcement, and some of the problems they raise;

- SYLLABUS**

Course Objective

The growing concerns of the international community resulted in a demand for international criminal prosecution before an international criminal tribunal for to international peace and security. The aim of this course is to analyze the differences in the jurisdiction of the International Criminal Court and the jurisdictions of the International Criminal Tribunal for former Yugoslavia and the International Criminal Tribunal for Rwanda. A comprehensive analysis of all provisions and jurisprudence developed by the various tribunals will be discussed. Importance will be placed on the nature of the differing relations that exist between the ICC, ICTY and ICTR with national criminal courts.

Course Details:

Module 1: Introduction

Introduction to International criminal law, Definition and History, Historical Evolution of International Crime, Sources of international criminal law, Subsidiary sources – judicial decisions and writings of publicists Treaties International Customary Law, General Principles of Law, Piracy jure gentium.

Module 2: International Criminal Courts and Tribunals

International Criminal Court
 ICC Jurisdiction over the Nationals of Non-States parties
 International Criminal Tribunal for Yugoslavia (ICTY)
 International Criminal Tribunal for Rwanda (ICTR)

Module 3: International Criminal Tribunals ad hoc and Principles and objectives of international criminal law

Treaty of Versailles Articles 226-230, League of Nations Statute of ICC 1937, *Nullum crimen sine lege*: Prohibition of *ex post facto* law, Modes of Criminal Responsibility and Defences, Exclusion of jurisdiction over persons under eighteen.

Module 4: State cooperation with international criminal courts and tribunals

State Sovereignty and International Criminal Law, India and Genocide Convention, India and 1949 Geneva Conventions – Supreme Court’s observations, India and Geneva Protocols 1977, Future of international criminal justice.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Cassese, Antonio, *International Criminal Law* (Oxford University Press, London, 2008) ed.2nd
- Schabas, William A., *An Introduction to the International Criminal Court*, (Cambridge University Press, Cambridge, 2001)
- R. Cryer, H. Friman, D. Robinson, E. Wilmschurst, *An Introduction to International Criminal Law and Procedure*, Cambridge University Press 2010, second ed.
- M.C. Bassiouni, *Introduction to International Criminal Law*, Transnational Publishers 2003.
- A.Cassese, *International Criminal Law*, Oxford University Press 2008, wyd. 2.
- A.Cassese, P. Gaeta, J.R.W.D. Jones (red.), *the Rome Statute of the International Criminal Court: A Commentary*, Oxford University Press 2002.
- Philippe Sands, ed., *From Nuremberg to the Hague: The Future of International Criminal Justice*, Cambridge, UK: Cambridge University Press, 2003
- Romano, A. Nollkaemper, J. Kleffner (red.), *Internationalized Criminal Courts and Tribunals: Sierra Leone, East Timor, Kosovo and Cambodia*, Oxford University Press 2004.
- W.A. Schabas, *the UN International Criminal Tribunals. The former Yugoslavia, Rwanda and Sierra Leone*, Cambridge University Press 2006.
- Convention on the Prevention and Punishment of the Crime of Genocide, 1948
- Principles of International Co-operation in the Detection, Arrests, Extradition Punishment of Persons Guilty of War Crimes, Crimes against Humanity, 1973
- Rome Statute of the International Criminal Court, 1998
- Ambos, Kai, “The Role of the Prosecutor of an International Criminal Court from a Comparative Perspective”, *Review International Commission Jurists*, 1997
- Askin, Kelly, “Crimes Within the Jurisdiction of the International Criminal Court” *Criminal Law Forum*, vol.10, n.1 (1999), pp. 33-59.
- Dadrian, Vahakn N., “Genocide as a Problem of National and International Law: The World War-I Armenian Case and Its Contemporary Legal Ramifications”, *Yale Journal of International Law*, vol. 14 (1989).
- Meron, Theodor, “International Criminalization of Internal Conflicts”, *American Journal of International Law*, vol.89 (1995), pp. 554–574.
- Schabas, William, “The Jelesic Case and the Mens Rea of the Crime of Genocide”, *Leiden*

Course Name	Course Code	LTP	Credit	Semester
Media Law (Constitution Law Hons. Paper - VI)	LLB 906 CP	3:1:0	04	9

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Explain the conceptual and operational parameters of various special principles/ doctrines of Media Law.
CLO 2	Apply Media Law to assist the aggrieved party in getting justice from the court of law, if at all, his/her grievance is not taken care of by the concerned.
CLO 3	Right to speech and expression and restriction thereon.

• **SYLLABUS**

Course Objective:

To promote for the benefit of the public compliance with ethical standards of conduct and with the law by journalists, broadcasters and all others engaged in or responsible for the media, in Indian society. Before the invention of communication satellites, communication was mainly in the form of national media, both public and private, in India and abroad. Then came 'transnational media' with the progress of communication technologies like Satellite delivery and ISDN (Integrated Services Digital Network), the outcome: local TV, global films and global information systems. In such an era of media upsurge, it becomes an absolute necessity to impose certain legal checks and bounds on transmission and communication which will be discussed in this paper

Module - I. Mass Media- Types of- Press Films, Radio Television

Ownership Patterns :- Press - private-public A - Films, Private B - Radio & Television. Differences between visual and non - visual Media - Impact on peoples minds

Module - II Press-Freedom of Speech and Expression — Article 19 (1) (a)

Includes Freedom of the Press. Laws of defamation, obscenity, blasphemy and sedition. Law relating to employees wages and service conditions of media, The working journalists and other news paper employee (condition of service) and Misc. Provisions Act, 1955, The working journalist (Fixation of Rates of wages) Act, 1958. Price and pages Schedule Regulation. Newsprint Control order. Advertisement- is it included within freedom of speech and expression? Press and the monopolies and Restrictive trade practices Act. The working Journalist (Fixation of Rates of wages) Act, 1958.

Module - III Films - It Included in freedom of speech and expressions?

Censorship of films - constitutionality. The Abbas case. Differences between films and press - why pre-censorship valid for films but not for the press. Censorship under the cinematograph Act

Module -IV Radio and television- Government Policy:

The Press Council Act, 1978. Regulatory Code of Conduct. Report of the Chadha committee . Government policy. Commercial advertisement. Internal scrutiny of serials etc

Module - V Constitutional Restrictions

Radio and television subject to law of defamation and obscenity. Power of legislature- Article 246 read with the seventh schedule. Power of impose tax - licensing and licence fee. Contempts of Court Act.

Examination Scheme:

Components	CA	A	CT	EE
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Weightage (%)	30	5	15	50
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Text & References:

- M.P. Jain, Constitutional Law of India (1994) Warctha
- H.M. Seervai, Constitutional Law of India Vol. (1991) Tripathi, Bombay
- John B. Haward, "The Social Accountability of Public Enterprises" in Law and community contn in New Development Strategies (International Center for law in Development 1980)
- Bruce Michael Boyd, "Film Censorship in India: A Reasonable Restriction on freedom of speech and expression" 14 J.I.L.I. 501 (1972)
- Rajeev Dhavan" On the Law of the Press in India" 26 J.I.L.I. 288 (1984)
- Rajeev Dhavan, "Legitimizing. Government Rhetoric; Reflections on some Aspects of Social press Commission" 26 J.I.L.I. 391 (1984)
- Soli Sorabjee, Law of press Censorship in India (1976)
- Justice E.S. Venkatramiah, freedom of press: Some Recent trends (1984)
- D.D. Basu, The Law of Press of India (1980).
- V.N. Shukla Constitutional Law of India.
- Vidisha Bohra, Press and Law Media Manual.

Course Name	Course Code	LTP	Credit	Semester
Corporate Taxation (Corporate Law Hons. Paper VI)	LLB 906 CG	3:1:0	04	9

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	The students will know the development and application of different provisions of taxation laws.
CLO 2	The student will gain a working knowledge regarding computation of tax liability under Direct and Indirect taxes and the relevant procedures
CLO 3	Explain the conceptual and operational parameters of various special principles

• **SYLLABUS**

Course Objective:

To acquire knowledge of the legal, procedural and practical aspects of the Corporate Taxation

Course Content:

Module-I: Income Tax

Overview of Income & Corporate Taxation in India, Concept of Ease of doing Business, World Bank Report 2020 specially in context of Paying Taxes, World Bank Report methodology and indicators, Type of Companies – (a) Indian Company (b) Domestic Company (c) Foreign Company (d) Public Sector Company (e) Public substantially interested companies, Depreciation Set off or carry forward of losses, Incentive and deductions to Companies under Section 80. Profit and gains of business profession, capital gains

Module – II: MAT & other provision

Minimum Alternate Tax 115 JB, Tonnage Taxation, Tax on Distribution of profit ; Double Taxation Concept Tax on business restructuring –Amalgamation, Demerger and Transfer of assets between Holding Companies and Subsidiary Companies.

Module – III: Indirect taxes in India

Overview of Indirect Taxation in India, Overview of GST and customs; Commodities not falling under GST in India and Provision of tax on the same

The Central Goods and Services Tax Act, 2017 and The Integrated Goods and Services Tax Act, 2017-Definitions; Administration; Levy and Collection of Tax; Determination of Nature of Supply ; Place of Supply of Goods or Services or Both ;

Module - IV: The Central Goods and Services Tax Act, 2017 and The Integrated Goods and Services Tax Act, 2017

Time and Value of Supply; Registration; Input Tax Credit ;Payment of Tax; Assessment; Inspection ,Search ,Seizure and Arrest ; Liability to pay Certain cases ; Advance ruling ; Appeals and revision; ;Offences and penalties ;Transitional Provisions.

Module - V: The Customs Act, 1962

Introduction to Customs Law in India; Administrative structure of Customs department Sections 3 to 6 ; Basic functions and objectives of the Customs Administration; ‘Goods’ under Customs Act; Territorial Waters and Customs Waters of India; Types Custom of Duties; Valuation of Goods; Introduction to Duty Drawback; Introduction to Baggage Rules and Import by Post and Courier; Search, Seizer, and Arrest; Offences; Penalties; Confiscation and Prosecution.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Singhaniya V.K, Singhaniya, M., (2017), *Corporate Tax Planning & Business Tax Procedures*, Taxmann Publication: India
- Singhania V.K. & Singhania Kapil, *Direct Taxes, Law and Practice*, Taxmann.
- Reports from Central Board of Excise & Custom- www.cbec.gov.in
- Ahuja G, Gupta, R. (2017), *Systematic Approach to Taxation*, Walters Kluwer
- GST Manual (November 2017 Edition)-Taxmann

Course Name	Course Code	LTP	Credit	Semester
IPR LITIGATION (IPR HONS.PAPER-VI)	LLB 906 IPR	3:1:0	04	9

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Skill to understand the concept of intellectual property rights.
CLO 2	Develops procedural knowledge to Legal System and solving the problem relating to intellectual property rights.
CLO 3	Employability as the Compliance Officer, Public Relation Officer and Liaison Officer.
CLO 4	Establishment of Legal Consultancy and service provider.

• **SYLLABUS**

UNIT-I -Enforcement of IPR

Introduction to enforcement of IPR, Counterfeiting and Piracy, Understanding Enforcement of IP, Evidence to determine facts in IP Litigation, Enforcing IPR's, International Legal Framework for Enforcement of IPR's, Alternatives to Litigation

UNIT-II- Infringement Acts

Introduction to Infringement Acts, Patents–Infringement, Trademarks–Infringement, Applying Trademarks and Trade Descriptions, Grounds of Infringement, Industrial Designs–Infringement, Geographical Indications (GI)–Infringement, Layout-Designs of Integrated Circuits–Infringement.

UNIT-III- Actions and Remedies for Infringement

Introduction to Actions and Remedies for Infringement, Civil Proceedings, Criminal Proceedings, Administrative Procedure, Evidential Aspects, Remedies for Infringement in Specific IP Instruments, Technological Measures to Prevent and Detect Infringement

UNIT-IV-Enforcement Under TRIPS Agreement

Introduction to enforcement Under TRIPS Agreement, Need for International Obligations, General Obligations, Civil and Administrative Procedures and Remedies, Provisional Measures, Special Requirements Related to Border Measures, Criminal Procedures, Border Measures under TRIPS, Role of Indian Customs, Role of Indian Police.

UNIT-V- Settlement of Disputes-I

Introduction to Settlement of Disputes–I, Alternative Dispute Resolution, Role of WIPO in Disputes Settlement, WIPO Internet Domain Name Dispute Resolution, Arbitration, Concept of Mediation, Appointment of the Mediator, Conduct of the Mediation, Role of the Mediator, Termination of the Mediation, Administration Fee and Costs.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Dr. M.K. Bhandari (CLP) Law relating to Intellectual property rights
- P. Narayanan (Eastern Law House), Intellectual Property Law

Course Name	Course Code	LTP	Credit	Semester
International Investment Law (International Trade law- Hon. Paper –VI)	LLB 906 ITL	3:1:0	04	9

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Skills and abilities: • to use specific terms and sources of the global investment law; • practical abilities to research international investment law and national laws and regulations governing international investment; • skills to advise clients on rules relating specifically to implementation of international investments and represent them in disputes concerning compliance with such rules.
CLO 2	Students must gain knowledge on: • Rules of international law and frameworks established at national law governing international investments; • Procedural framework for resolution of disputes concerning foreign investment.
CLO 3	Students should gain the following competences: • ability to work with information (search, evaluate, use information, necessary for fulfilment of academic and professional tasks, from various sources, including application of the systematic approach); • ability to carry out professional activities in the international environment; • ability to search, analyse, and work with relevant information by using the juridical, comparative and other specific methods,

• **SYLLABUS**

Module 1 Introduction

- Overview of issues and trends in foreign investments
- Foreign investments in historical context.
- Trends in flow of foreign investments.
- Foreign investments and development.

Module 2 Regulation of Foreign Investment

- Historical trends in regulation of foreign investments
- Perspectives and emergence of bilateral, regional and multilateral Investments Treaties.
- Rights of foreign investors.
- Responsibilities of foreign investors vis-a-vis environment, human rights and other municipal concerns of host states

Module 3 Remedies for Foreign Investors

- Trends and issues in treaty based remedies for foreign investors.
- Fork in the road and the umbrella clauses.
- Overview of foreign arbitral institutions.
- Recognition and enforcement of foreign arbitral awards with specific reference to India.

Module 4 International Centre for Settlement of Investment Disputes

- Overview of ICSID.
- Resolution of Investors State Dispute with specific reference to Washington Convention 1965.
- Preliminary issues in respect of jurisdictional proceedings.
- Essentials for the jurisdiction of ICSID, patterns of consent and meaning of foreign investment under Article 25 of the ICSID.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Campbell Mc Lachlan, Laurence Shore & Matthew Weiniger, International Investment Arbitration: Substantive Principles, Oxford University Press, 1st ed, 2008.
- Todd Weiler, International Investment Law and Arbitration: Leading Cases from the ICSID, NAFTA, Bilateral Treaties and Customary International Law, Cameron, 2005.
- Mohamed A. M. Ismail, Conseil d'État, International Investment Arbitration: Lessons from Developments in the MENA Region, Ashgate, 1st ed., 2013

Course Name	Course Code	LTP	Credit	Semester
PROBATION AND PAROLE Criminal law Hon. Paper- VI	LLB 906 CRL	3:1:0	04	9

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Study the meaning, objects, and importance of Probation And Parole and criminal justice system in India
CLO 2	Understand the general principles and theories of Probation And Parole evolved at national and international level.
CLO 3	Identify the basic causes of criminal behaviour and possible solutions
CLO 4	To analyse the role of courts towards Probation And Parole .

- SYLLABUS**

Course Objective:

The Course is designed to acclimatize the students about the extended penology that provides different liberal mode and manner of punishments. It directly or indirectly reflects the thought of reformative society. Such modes are generally applied to specific categories based on their age factor or other common social factors. The study of these modes of treatment is essential to make significant efforts in social welfare and can effectively increase the stigma against such offenders. At the same time the executive machinery is also most dreadfully affected the implementation of such treatment for the offenders, therefore this course is oriented to make awareness of such statutes to deal with them effectively.

UNIT-I: Introduction to Probation

- Definition and Nature of Probation
- Application of probation – utility and misconception
- Conditions of Probation
- Probation of offenders Act 1958
- Power of Court to release certain offenders after admonition
- Power of Court to release certain offenders on probation of good conduct
- Power of Court to require released offenders to pay compensation and costs.

UNIT- II: Procedure for Probation

- Restrictions on imprisonment of offenders under twenty-one years of age.
- Report of probation officer to be confidential
- Variation of conditions of probation
- Provisions as to Sureties
- Procedure in case of offender failing to observe conditions of bond

UNIT- III: Concept of Parole

- The concept of Parole and object of parole

- Parole and Probation Compared
- Parole Distinguished from Furlough
- Parole in India

UNIT- IV: Composition and Function of Parole Board

- Structural set up of Parole Boards and their functions
- Conditions of Parole
- Judicial Trend
- Parole Violation

UNIT V: Drafting Exercises

- Drafting of Preliminary Enquiry Report of Probation Officer
- Drafting of Supervision Order of Court under the Probation of Offenders Act
- Drafting of Probationer’s Case File
- Drafting of Parole Application by Prisoner or his Family Member
- Drafting of Surety Bond for Parole

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Katherine S. Williams, Text Book on Criminology (1997) Blackstone, London.
- Siddique, Criminology, problems and perspectives (1997).
- D.C. Pandey, Habitual offenders and the law.
- Prof. N.V. Paranjape criminology and penology.
- Prof. S.S. Shrivastava Criminology and criminal administration.
- Prof. V.B. Agrawal and R.K. Raizada Crime and Criminology
- .Probation of offenders Act 1958
- Howard Jones: Paul Carnes’s Open Prisons
- Louis P. Carney: Introduction to correctional Science, 2nd Ed.
- Carter and Wilkins : Probation, Parole and Community
- Relevant Provision of the following Acts/Rules
- Prisoners Act, 1900
- Prisoners Act, 1984
- Bostal Act, 1926
- Punjab Jain Manual
- The Good Conduct Prisoners Probational Release Act, 1926
- The Good Conduct Prisoners Probational Release Act, 1927
- The Punjab (Good Conduct Prisoners Probational Temporary Release) Act, 1962

- The Punjab (Good Conduct Prisoners Probational Temporary Release) Act, 1962
- Probation of Offences Act, 1958
- Punjab Probation of Offenders Rules, 1962
- Model Probation of Offenders Rules
- MedhaKolhatkar, Drafting Pleading and Conveyancing, Lexis Nexis (2015).
- S. R. Myneni, Drafting Pleading and Conveyancing, Asia Law House.
- Sarkar, Guide to Drafting, Pleadings & Conveyancing: Forms & Precedents, 2 Volumes, Premier Publishing Co.

Course Name	Course Code	LTP	Credit	Semester
Comparative Constitution (Constitutional Hons. Paper - VII)	LLB 1004 CP	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	The students would understand a deeper comparative concept of constitution of different nations.
CLO 2	The student would be able to appreciate the true essence and spirit of democracy in light of constitutional principles ensured and enunciated in the textual record, read as the ' <i>law of the land</i> '.
CLO 3	The students would be able to problematize and analyze the present day nuances and relevance of Constitution in light of landmark judgments so as to appreciate the constitutional evolution.
CLO 4	Deep understanding of the Constitutional provisions in light of the major doctrines and their evolution as absolute concepts in form of <i>basic structure</i> and <i>judicial activism & review</i> along with remedies ensured for the same in the text.
CLO 5	Analyze the importance of economic, political and social integration in tune with the Constitutional provisions and the impact of judicial pronouncements. Also to evaluate supremacy of Constitution and its ethos and the active role of Judiciary to safeguard the Constitution and civil liberties.
CLO 6	Get a sense and nuances of various shades of Parliamentary form of Government with its merits and demerits and the implementation of rule of law besides preserving the basic structure to maintain the sanctity and originality of -Constitution.

• **SYLLABUS**

Course Object:

In this course, students will be introduced to and will explore, compare and analyze the constitutional systems and fundamental rights of different nations which are the United States, Switzerland, Britain, Canada and Indian Constitution.

Module I General

Federalism; History, Institutions and Legislative Processes. **Federal Systems:** Constitutional History; Distributions of Powers- legislative, Administrative and Financial; Supremacy, Subsidiarity, Judicial Review, and Jurisdiction.

Module II Secularism

Concept of Secularism, Non Secular State, Secular State, Secularism and Indian Constitution.

Module III Fundamental Right And Enforcement

Scope of Fundamental Rights, Constitutional Guarantee, Remedies on Violation, Freedom of Speech and Expression; Rights life and personal liberty, Privacy and Personal Autonomy, Mobility Rights (Travel, Work, Benefits and Residence), Social and Equality Rights (Race, Gender, Sexual Orientation, Disability and Other Areas of Classification).

Module IV Form of Government

Parliamentary form of Government- Composition of houses, and constitutional position of President; Unitary form of Government- Composition of houses and constitutional position of President.

Module V Hierarchy and Power of Court

Subordinate Court, High Court, and Supreme Court Criminal in civil Matter. Power of Court- Injunction, Compansation, and Writ

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Jeffery Goldsworthy- Interpreting Constitutions: A Comparative Study
- A.H. Birch- Federalism, Finance and Social Legislation
- K.C. Wheare- Federal Government
- Granville Austin- The Indian Constitution: Cornerstone of the Nation
- Granville Austin- Working a Democratic Constitution: A History of the Indian Experience
- M.P. Jain – Indian Constitutional Law.
- V.N. Shukla Constitutional Law of India.
- Comparative Constitutional Law Tom Ginsburg, Rosalind Dixon, Edward Elgar publishing limited UK.

Course Name	Course Code	LTP	Credit	Semester
Law on Infrastructure Development (Corporate Law Hons-Paper-V)	LLB 1004 CG	3:1:0	04	10

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Able to understand the concept of state its nature and function.
CLO 2	Able to trace the origin of state.
CLO 3	Comprehend important theory of Social Contract.
CLO 4	Able to differentiate between hobbes, Locke and Locke theories.
CLO 5	Understands concept of sovereignty and its different forms.
CLO 6	Analyze various interpretations of sovereignty.

- SYLLABUS**

Course Objective:

To provide an overview of the constitutional and the general legal context in which the infrastructure sector Operates , to examine the importance of independent regulation in infrastructure and to make a general analysis of the laws, policies and the reforms carried out in select infrastructure sectors

Course Contents:

Module I: Constitutional aspects

Allocation of jurisdiction over different infrastructure sectors between the Centre and State - law making powers
Allocation of natural resources: Judicial review Administrative law

Module II: Land Acquisition

Concepts of eminent domain and public purpose The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013: Social Impact Assessment, Requirement of consent in the case of certain acquisitions, compensation, rehabilitation and resettlement..

Module III: Infrastructure Sectoral polices, reforms and laws Power Sector/Electricity

Introduction-evolution of the power sector reforms, polices- Electricity Act, 2003 - National Electricity policy- legal framework- the state electricity boards licensing framework- Provisions Relating to and working of Electricity Regulatory Commissions-their structure, role and functions

Telecommunications

The national telecom policies-the legal framework- regulatory agencies functioning, power and functions of TRAI and TDSAT

Oil, Petroleum and Natural Gas

Reforms, policies and legal framework -New Exploration Licensing Policy (NELP)- production sharing contracts- the Petroleum Regulatory and Natural Gas Board Act – the emerging regulatory reforms

Water

Water policy General Legal framework and reforms-Water rights- state jurisdiction- new regulatory reforms in water sector.

Transport

Law, policy and reforms relating to Airports-Railways-Road –Port; TAMP; an overview of coastal shipping and Inland Water Transport policy

Real estate

The Real Estate (Regulation and Development) Act, 2016

Module IV: Drafting Exercises

- Drafting and reviewing employment contracts
- Drafting and reviewing contractor’s agreements;
- Drafting production sharing contracts
- Negotiating terms and conditions of employment
- Drafting and reviewing workplace policies

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Baldwin, R. and C. McCrudden (1987). Regulation and Public Law. London: Weidenfeld & Nicolson.
- Joshi, Piyush (2003), Law Relating to Infrastructure Projects. 2nd Edn. New Delhi: Butterworths.
- National Transport Development Policy Committee Report (Rakesh Mohan Committee)
- Sarkar, S K , and Srivastava L. (eds.) (2002), Reforms in the Infrastructure Sectors: Next Steps, TERI Press, New Delhi.
- Sundar, S. and Sarkar S. K . (2000). Framework for Infrastructure Regulation. New Delhi: TERI Press.
- Shapiro, S. and Tomain, J. (2003). Regulatory law and policy: Cases and materials. New Delhi: LexisNexis.
- Philippe Cullet and Sujith Koonan, 2012, Water Law in India: An Introduction to Legal Instruments
- Ramaswamy R Iyer, 2009, Water and the Laws in India, Sage
- Talat Fatima, 2012, Transport Law in India, Kluwer Law International
- S. K. Chatterjee, 2013, Commentary On The Electricity Laws of India, Delhi Law House
- Vikram Raghavan, 2007, Communications Law in India (Legal Aspects of Telecom, Broadcasting and Cable Services, Lexis Nexis
- Mohammad Naseem, 2010, Energy Law in India, Kluwer Law International
- Mark Anderson & Victor Warner, Drafting & Negotiating Commercial Contracts

Course Name	Course Code	LTP	Credit	Semester
Bio Diversity Protection (IPR HONS. PAPER VII)	LLB 1004 IPR	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Skill to understand the concept of Bio Diversity Protection
CLO 2	Develops procedural knowledge to Legal System and solving the problem relating to Bio Diversity Protection
CLO 3	Employability as the Compliance Officer, Public Relation Officer and Liaison Officer.
CLO 4	Establishment of Legal Consultancy and service provider

• **SYLLABUS**

UNIT-I-Bio-diversity

Meaning, Need for protection of biodiversity, Dependence of human life on the existence in flora and fauna, Significance of wild life

Unit –II- Development Projects and Destruction of Bio-Diversity: Concept of Sustainable Development

Construction of Dams- Salient Valley and Doon Valley Projects – Narmada Bahav Andolan – Almatti Dam Project etc., Deforestation-Coal Mining operations- Sustainable use of forests and protection of wild life, Principles of sustainable development- National and International perspectives, Convention on bio-diversity (CBD)- Biological Diversity Act 2002(BDA)

Unit III- Problems in Legal Regulation of Medicinal Plants

Cosmetic Plants, Animal Products, Utilization of flora and fauna for bio-medicinal purpose by Multinational Corporation: Problem of Control, Regulation of trade in wild life products

Unit IV- Legal Framework for Development and Protection of Sanctuaries& Other Relevant Laws
Parks, Zoos, Biosphere Resources, Protection of genetic resources for agriculture, Biological Diversity Act 2002, Forest Protection Act, 1980, Wildlife Protection Act, 1972, Prevention of Cruelty to Animals Act, 1960, Convention on Biological Diversity, 1992, Article 51 A(G), Animal Welfare Board of India

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Arjun Prasad Nagore – Biological Diversity and International Environmental law (1996), A.P.H. Publishing Corporation, New Delhi.
- Project large, Plant Variety Protection and Plant Bio-technology-options for India (1999), Allied.
- M.S.Swaminathan, Genetic Conservation – Microbes to Man, Presidential Address at XV International congress of Genetics, New Delhi, India, December 12-21.1983. Wild Genetic Resources, Earthscan Press Briefing Document No.33, Earthscan, London (1982).

- K.L.Mehta and R.L.Arora, Plant Genetic Resources of India; their diversity and Conservation (1982), National Bureau of Plant Genetic Resources, New Delhi.
- P.N.Bhat,et.al., Animal Genetic Resources in India (1981).
- P.N.Bhat, “Conservation of Animal Genetic Resources in India, “ Animal Genetic Resources, Conservation and Management FAO, Rome, (1981).
- P.Leelakrishnan, “Environmental Law in India” –Lexis NexisButterworths (2005)

Law of ITR in International Trade law
(International Trade law- Hon. Paper –VII)

Course Code: LLB 1004 ITR

Credit Units :04

Module 1 Concept of Intellectual Property

- Industrial Design: Need for Protection of Industrial Designs,
- The Designs Act, 2000
- Law relating to Geographical Indication: Domestic as well as International Law

Module 2 TRIPs Agreement and Its relation with other International IPR Treaties

- Paris Convention
- Berne Convention
- Rome Convention

Module 3 TRIPs Agreement

- General Provisions and Basic Principles
- Minimum Standard
- Enforcement of IPR
- Dispute Prevention and Settlement

Module 4 TRIPs and Environment

- TRIPs and Biodiversity
- TRIPs and Protection of Plants Varieties
- TRIPs and Biotechnology

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Course Name	Course Code	LTP	Credit	Semester
COMPARATIVE CRIMINAL PROCEDURE (Criminal Law Hons. Paper – VII)	LLB 1004 CRL	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	An appreciation that what appears “normal” or “just” in the context of one country’s criminal procedural laws may appear unusual or unjust in another;
CLO 2	An understanding of cross-border and international criminal law enforcement, and some of the problems they raise; A skill at spotting areas of potential misunderstanding among criminal law practitioners from different countries.
CLO 3	An understanding of cross-border and international criminal law enforcement, and some of the problems they raise;
CLO 4	A skill at spotting areas of potential misunderstanding among criminal law practitioners from different countries.

• **SYLLABUS**

Course Objective:

To impart knowledge of enforcement system in a comparative framework and to acquaint students with different systems of criminal law and criminal procedure.

Module I :Organization of Courts and prosecuting Agencies

Hierarchy of criminal courts and their jurisdiction, Nyaya Panchayats in India, Panchayats in tribal res. Organization of prosecuting agencies, Prosecutors and the police, Withdrawal of prosecution/ Criminal Courts in UK and USA.

Module II :Pre- Trial Procedures and Trial Procedures

Arrest and questioning of the accused, Rights of accused to fair trial, Trial procedures: accusatory system of trial, and inquisitorial system of trial, Role of the judge, the prosecutor, and defence attorney in the trial, Admissibility and inadmissibility of evidence, Expert evidence, Appeal of the court in awarding appropriate punishment, Plea bargaining, Principles of fair jury trial in USA, UN Model law.

Module III :Correctional and Rehabilitative Practices

Institutional correction of the offenders, Rehabilitative practices in India, USA and France, Role of courts in correctional programs in India.

Module IV :Preventive Measures in India

Constitutional Provisions, Criminal Procedure Code, Special enactment.

Acts and Statutes (As Amended)

1. The Criminal Procedure Code, 1973
2. The Indian Penal Code, 1860
3. The Indian Evidence Act, 1872

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Text & References:

- Basu, D.D: *Criminal Procedure code*; LexisNexis
- Ratanlal and Dhirajial; *Indian penal code*; LexisNexis
- Thaman, Stephen: *Comparative Criminal Procedure*; A Casebook Approach: Carolina Academic Press.
- Nijboer, J.F.; *Comparative Criminal Law and Procedure*: Kluwer Publication
- Sluiter, Goran and Friman, Hakan: *International Criminal Procedure: Rules and Principles* : Oxford University Press.
- Kelkar R.V. Revised by Pillai, P.S.A.: *Outlines of Criminal Procedure Code*: LexisNexis.

Course Name	Course Code	LTP	Credit	Semester
Health Law (Constitution Law Hons. Paper-VIII)	LLB 1005 CP	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Understand the basic concepts and principles of Right to Health under Indian Laws and international laws.
CLO 2	Have a thorough understanding of Various Dimensions of Health and Right to Health and Related aspects..
CLO 3	Have a clear understanding of relation of right to health under Judicial precedent.

• **SYLLABUS**

Course Object

This paper helps students to attain and maintain an optimum health status so that they may receive maximum benefit from their educational experiences. Health education like general education is concerned with the change in knowledge, feelings and behavior of people. In its most usual form it concentrates on developing such health practices as are believed to bring about the best possible state of well being.

Module-I -Introduction

Concept & Definition of Health, Right to health, Constitution protection – Fundamental Right & Directive principle; International law & Health:TRIPS and Public Health, ALMATA Declaration, DOHA Declaration, World Health Organisation – Role of WHO in public health, International Health Regulations; Indigenous and Allopathic health system; Code of ethics in medical profession: Medical Council of India; National Medical Commission, Medical ethics: development, concept, duties of doctors, rights of patients, Hospital as an industry, Applicability of labour laws to hospital.

Module II Medical Negligence

Liability in Torts & Consumer Protection Act 1986, Concept of vicarious liability and criminal liability

Module-III Health Legislations ,Guidelines&Policies in India

Law relating to termination of pregnancy, Organ Transplantation, Pre-natal diagnostic techniques, Artificial Insemination and Surrogacy, Legality of Euthanasia, Mental Health Care, Offence affecting the Public Health (Chapter XIV of IPC), Nuisance and relevant provision of Cr.P.C., Epidemic Laws

Public Health Policies by Government of India: Aayushman Bharat Bill, 2018; National Health Mission; National Health Policy, 2017, Patents, Access to medicine, parallel importation of drugs, PradhanMantriBhartiya Janaushadhi Pariyojana (PMBJP), National list of Essential medicine ,NITI Ayog on Health, Relevance of ArogyaSetu

Module IV Legal aspects of Medical Practice

Concept of medical experimentation and clinical trials, Informed Consent, Privacy & Confidentiality; Medical Evidence, Medical witness; Examination of living person in medico-legal service; Legal Aspects of Death: Post-mortem examination, Dying Declaration

Module -V Jurisprudence of health services

Health law & Judiciary, Types of health insurance, Public service related situations – Negligence (Private eye sterilization camp etc.), Disposal of medical and surgical waste. Health Care Units (Public/Private) Liabilities

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Nandita Adhikari, Law and Medicine, Central Law Publication
- R.K. Bag- Medical Negligence and Compensation, Eastern Law House
- Moitra and Kaushal, Medical Jurisprudence and Toxicology; Unique Law Publishers
- Freeman- Law and medicine
- Micheal Davies- Textbook on Medical law
- Jonathan Herring- Medical Law and Ethics
- S. V. Jogarao- Current Issues in Criminal Justice and Medical
- Public Health : Enforcement and Law - The ICFAI University Press.
- Clinical Trials : Law and Regulations- The ICFAI University Press.
- Right to Public Health and Impact of Patents - The ICFAI University Press.

Course Name	Course Code	LTP	Credit	Semester
Law on Project Finance (Corporate Law Hons. Paper-VIII)	LLB 1005 CP	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Understand the basic concepts and Critical steps of Project Finance
CLO 2	Have a thorough understanding of Business Model, Competencies in Project Finance, and Estimation of cost of Project
CLO 3	Have a clear understanding of Project feasibility Analysis

• **SYLLABUS**

Course Objective:

The course is designed to provide comprehensive knowledge to the students regarding Law on Project Finance.

Course Content:

Module I: Introduction

Project Finance Background

a) Evolution of project finance b) Project Types c) Critical steps in a project

Module II: Market Analysis

a) Background b) Market Sizing: (i) Demand function estimation (ii) Rule of Thumb (iii) Experts' Poll c) Consumer, Customer and Influencer

Module III: Business Model, Competencies and Promoter Analysis

a) Business Model b) Competencies: (i) Core competency (ii) Competency Match

c) Promoter Analysis: (i) Track Record (ii) Financial Standing (iii) Integrity

Module IV: Estimating Cost of Project

a) Project specifications b) Estimating Fixed Capital Investment in Project
c) Estimating working capital investment in the project

Module V: Project Feasibility Analysis

a) Background b) Net Present Value (NPV) c) Profit v/s Cash Flow d) Discount Rate e) Tax-Shield on Interest f) Tax-Shield on depreciation g) Internal Rate of Return (IRR)

Module VI: Financial Projections

a) Background b) Assumptions c) Cost of Project & Means of Financing d) Projected Profit & Loss Account e) Projected Balance Sheet

Project Finance and their Sources

a) Prudence in Mix of Long Term and Short Term Finance b) Forms of Long Term Project Finance c) Forms of Short Term Project Finance

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Modern Project Finance: A Casebook by Benjamin C
- Principles of Project Finance by E. R. Yescombe
- Introduction to Project Finance (Essential Capital Markets) by Andrew Fight
- Project Finance in Theory and Practice: Designing, Structuring, and Financing Private and Public Projects (Academic Press Advanced Finance) by Stefano Gatti
- Project Financing: Asset-Based Financial Engineering (Wiley Finance)(Wiley Finance) by John D. Finnerty
- Financial Modelling for Project Finance by Penelope Lynch

Course Name	Course Code	LTP	Credit	Semester
Patent Drafting and Specification Writing (IPR Hons. Paper-VIII)	LLB 1005 IPR	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Identify the nature, Concept & Importance of a Patent.
CLO 2	Understand and have knowledge of the basic laws, rules and procedure for gaining Patent.
CLO 3	Demonstrate skills in legal research- applying them specifically to patent Law issues.
CLO 4	Acquire Knowledge of the applicable rule governing Transfer, Acquisition, surrender, revocation, restoration matters.
CLO 5	In sum, the course will enable students to critically examine the patent Law

• **SYLLABUS**

Unit-I-The Patents Act 1970

Introduction, Meaning of Intellectual Property, Aims, Objective, Features and Principle, Inventions (Sec 2j) Invention not patentable (Sec 3-5), Application (Sec 6-8), Specification (Sec 9-10), Opposition (Sec 25), Grant and Sealing of Patent(Sec 43), Conditions for Grant of Patent (Sec 47), International Instruments: Paris Union, TRIPS, WIPO, UNESCO

Unit II

2.1 Rights of Patents (Sec.47), Term of Patent (Sec. 53), Patents of Addition (Sec. 54&55), Surrender &Revocation (Sec. 63-66), Patents Office (Sec 73-74 r.4(2), Compulsory Licenses (Sec 84), License of right (Sec 86-88), Government use (Sec 99), Infringement (Sec 104-115), Patent Agents (Sec 125-132), International Arrangements (Sec 133-139), Exclusive Marketing Right (Sec 24A-24F)

Unit –III –Introduction To Patent Prosecution

Introduction, Overview of Patent Prosecution, Review of Parts of Application

Unit –IV – Patent Drafting & Application Filing Strategies (I)

Brief review of claim format, Basic claim interpretation, Claim drafting , Novelty, Non- obviousness, Utility, Written description, Enablement, Best mode, Inventorship, Expedited Prosecution, Filing the Application, Formal Papers, Electronic Filing, Serial Number &Filing Receipt

Unit –V– Prosecution Activities At Initial, Office And Final Level

Duty of Disclosure, Information Disclosure statements, Restriction Requirements, Introduction to Office Actions, Examiner Interviews, Amending Claims and Specification, Terminal Disclaimers, Advisory actions, After Final Amendments and submissions, Allowance, Issue and Publication Fees, Grant, Certificates of Correction

UNIT- VI- DRAFTING EXERCISE

- Claims drafting
- Drafting of Patent application

- Draft of invention disclosure statement
- Draft of responses to office actions

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Dr. M.K. Bhandari (CLP) Law relating to Intellectual property rights
- P. Narayanan (Eastern Law House), Intellectual Property Law
- WIPO Patent Drafting Manual- WIPO Website

Course Name	Course Code	LTP	Credit	Semester
Maritime Law (International Trade law- Hon. Paper – VIII)	LLB 1005 ITL	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Identify and assess relevant legal scholarly literature in maritime law.
CLO 2	Understand and apply advanced legal theory and method in this area.
CLO 3	Formulate a researchable problem in an independent way and assess how your choice of research question influences your choice of research design as well as your choice of method(s). (Master thesis)

• **SYLLABUS**

Module 1 International Law of Sea

Historical background, Maritime Law, The Liability of vessel: Collisions, Salvage, Towage, Wreck removal , Ports and harbors, Pilotage, Limitation of liability.

Module 2 Marine Insurance

Introduction to marine law: Background, Policies within 1906 Act, Formation of marine policies, Marine Insurance losses and claims.

Hull and Machinery Insurance, Cargo Insurance, Protection and indemnity club, Letter of undertaking.

Module 3 Public International Law Aspects of Shipping Regulation

Maritime zone relevant to shipping, coastal and flag state right over shipping in the main maritime zone, the IMO and its Convention, The UNCLOS Article 292 Prompt release procedure.

Module 4 Procedure for Enforcement Claims

The Admiralty Jurisdiction of the High Court, Arrest, Priority of claims, maritime liens, Freezing Injunction, Enforcement: Action in rem arising from maritime liens, action in rem in respect of other claims.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Southampton on Shipping Law: Institute of Maritime law 2008
- The law of Marine Insurance, Second Edition, Howard Bennett, Oxford Publication

Course Name	Course Code	LTP	Credit	Semester
Offence Against Child And Juvenile Offences Criminal law Hon. Paper- VIII	LLB 1005 CRL	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Define the general steps in the disposition of a juvenile case and who are involved at different points in the case and what they determine.
CLO 2	Comprehend and participate in court procedures and document information gleaned from basic legal documents
CLO 3	That the legal system is structured to promote fairness that punishment is designed to address the failure of an individual to execute their responsibilities

• **SYLLABUS**

Course Objective:

The Course is designed to accustom the students about the offences against and by the most delicate part of society that is juveniles. It is leaning to impart the integrated findings of various disciplines on crime committed by child as well as where child is himself a victim. It is the study of efforts and experiments to prevent crime by and against delinquents. At the same time the executive machinery plays an effective role in rehabilitation of such categories of criminals with special conditions and circumstances. Therefore this course is oriented to make awareness of such statutes to deal with them effectively.

UNIT-I:Concept of Child and Juvenile

- Definition and concepts of term child and Juvenile
- Causes of offence against child.
- International protection to child and convention

UNIT –II:Offences against Child

- Child abuse: Protection of Children from Sexual Offences Act 2012
- Child Labours and Forced Labour
- Kidnapping, abduction
- Abetment of suicide of child
- Sale of obscene objects to young

UNIT – III:Social relations and child

- Child marriage (Prohibition of Child Marriage Act 2006)
- Laws related to Abandonment of child
- Custody of Child during matrimonial suit
- Maintenance of child
- Obligations to supply necessities to children

UNIT–IV: Juvenile Delinquency and Protection of Child & Juveniles

- Juvenile delinquency – Nature, causes,
- Juvenile Court System,
- Treatment and rehabilitation of juveniles
- Legislative and judicial protection of juvenile offender
- Juvenile Justice Act (including latest amendments 2016)
- Under the provisions of constitution (fundamental rights and directive-principles), under IPC, 1860, under CRPC, 1973, under Contract Act, 1872, under Juvenile Justice Act

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Paras Diwan 'Children & Legal Protection'
- Savitri Goonesekar 'Children Law and Justice'
- O.P. Mishra 'Law Relating to women & child'
- Law of Crimes by Rattan Lal Dhiraj Lal
- Indian Penal Code by H.S.Gour
- The Juvenile Justice System in India by Ved Kumari
- Neglected Children: A Study of Juvenile Justice System by Dr. Pushpinder Kaur Dhillon
- The Juvenile Justice (Care and Protection of Children) Act, 2000, 2005, 2016.
- The Prohibition of Child Marriage Act 2006
- The Child Labour (Prohibition and Regulation) Act, 1986
- Indian Contract Act, 1872
- Hindu Adoption and Maintenance Act 1956

Course Name	Course Code	LTP	Credit	Semester
Election Laws (Optional Paper)	LLB 1006	3:1:0	04	10

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Demonstrate comprehensive, current and integrated knowledge and understanding of key concepts in election law and its development, the nature of the legal controls over election, the operation, regulation and various enforcement mechanisms:
CLO 2	Recognize the issues involved in the implementation and enforcement of election law:
CLO 3	Analyze & apply such knowledge to identify and critically evaluate appropriate regulatory and enforcement strategies.

• **SYLLABUS**

Course Objective:

To impart basic knowledge about the laws governing the election process, electoral rights, election reforms and role of Election commission in India.

Introduction

Election: meaning and process, Constitutional mandate, Laws governing elections, Election disputes, Election to the offices of the President and Vice President; Relationship between democracy and election; Voting Rights in India

Module- I: Election Commission

Composition, Functions, Role and Powers, Delimitation of constituencies, Preparation and revision of electoral rolls

Module- II: Law Relation to Representation of People Act

Qualifications and disqualifications of candidates, Constitutional and statutory provisions, Disqualifications of sitting members, Nomination and candidature, Voter's right to information and Anti-Defection Law (Tenth Schedule to the Constitution of India).

Module III: Electoral Offences and Electoral Reforms

Corrupt practices in election, Electoral offences, Emergence and feasibility of right to vote and right to reject

Module IV: Contemporary Issues concerning Elections in India

1. State funding of Elections and Electoral Bonds
2. Right to Recall
3. None of the Above (NOTA)
4. Decriminalization of of Electoral Politics
5. .Political Accountability and Manifesto Audit Model Code of Conduct.

Examination Scheme:

Components	CA	A	CT	EE
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Weightage (%)	30	5	15	50
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Text & References:

- Rama Devi, V.S and S.K. Mendiratta; How India Votes: Election Laws, Practice and Procedure;
- Jain P.C., and Jain, Kiran; chawla's Elections and Practie; Bahri Brothers
- Jain, M.P. ; Indian Constitutional Law; Lexis Nexis
- Sunny, K.C.; corrupt Practices in Election Law; Eastern Book Company
- Choudhry, R.N; Election Laws and Practice in India; Orient Law House

Course Name	Course Code	LTP	Credit	Semester
MICROECONOMIC THEORY & APPLICATIONS-II	BCH 202	3:1:0	4	2

• **A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	Understand and Analyse individual (self and others) and group behaviour including their respective defining elements.
CLO 2	Understand the concepts of power and motivation, and apply them to earn the commitment of others.
CLO 3	Improve team skills and gain an appreciation of team dynamics
CLO 4	Analyse and interpret the impact of organizational culture on organizations.

• **B. SYLLABUS**

Course Objective:

The objective of the course is to acquaint the students with various market structures within which a firm operates. The Course also deals with long-term decision making and market efficiency.

Course Contents:

Module I:

Perfect Competition: Meaning, revenue of a competitive firm, marginal cost curve and firm's supply decision, firm's short run decision to shut down, firm's long run decision to exit or enter a market, Equilibrium of the firm and the industry in the short and the long run . The supply curve in competitive market: the short run supply curve with fixed number of firms, long run market supply with entry and exit. Difference between accounting and economic profits, producer surplus

Module II:

Monopoly Market: Features, Kinds of monopoly, reasons for monopoly, Monopolist's decision and equilibrium, Shifts in demand curve and the absence of the supply curve, Measurement of monopoly power and the rule of thumb for pricing, , Comparison of pure competition and monopoly. The social costs of monopoly power: deadweight loss, Price discrimination

Module III:

Monopolistic Competition: Features, Price and output decision in short run and long run, Oligopoly: Features, Interdependence - Cournot's duopoly model, kinked demand model, collusive oligopoly: price leadership model and cartels

Module IV:

Market Failure: Risk aversion and risk preference, insurance and investor's choice, Asymmetric information- Adverse selection, moral hazard, externalities, and the market for lemons, Market Signaling, Principle agent problem and Managerial Incentives in an integrated firm, **Labour market equilibrium**

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Pindyck, R and Rubinfeld, D. (2001). Microeconomics, 7th edition, Prentice Hall.
- Ahuja, H.L. (2006). Modern Microeconomics: Theory and Application, 14th edition, S. Chand Publication.
- Koutsoyiannis, A. (2005). Modern Microeconomics, 2nd edition, Macmillan Press LTD
- Parkin, M. (2008). Microeconomics, 8th edition, Pearson International.
- Baumol, William J. (2010). Economic Theory and Operations Analysis, 4th edition, Prentice Hall UK & PHI Learning Private Ltd. New Delhi.
- Varian, H.R. (2009). Intermediate Microeconomics: A Modern Approach, 9th edition, Affiliated East-West Press, New Delhi.
- Salvatore, D. (1991). Schaum's Outline of Theory and Problems of Microeconomic Theory, McGraw-Hill, International Edition, New Delhi.



Course Name	Course Code	LTP	Credit	Semester
MICROECONOMIC THEORY AND APPLICATIONS – II	BCH202	2:01:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Demonstrate adequate knowledge & understanding of four market structures by characteristics
CLO 2	Analyze and apply the mechanics of demand and supply for firms
CLO 3	Calculate and graph the profit maximizing price and quantity in the output markets by use of marginal analysis

B. SYLLABUS

Course Contents:

Module I:

Perfect Competition: Meaning, revenue of a competitive firm, marginal cost curve and firm's supply decision, firm's short run decision to shut down, firm's long run decision to exit or enter a market, Equilibrium of the firm and the industry in the short and the long run. The supply curve in competitive market: the short run supply curve with fixed number of firms, long run market supply with entry and exit. Difference between accounting and economic profits, producer surplus

Module II:

Monopoly Market: Features, Kinds of monopoly, reasons for monopoly, Monopolist's decision and equilibrium, Shifts in demand curve and the absence of the supply curve, Measurement of monopoly power and the rule of thumb for pricing, Comparison of pure competition and monopoly. The social costs of monopoly power: deadweight loss, Price discrimination

Module III:

Monopolistic Competition: Features, Price and output decision in short run and long run, Oligopoly: Features, Interdependence - Cournot's duopoly model, kinked demand model, collusive oligopoly: price leadership model and cartels

Module IV:

Market Failure: Risk aversion and risk preference, insurance and investor's choice, Asymmetric information- Adverse selection, moral hazard, externalities, and the market for lemons, Market Signaling, Principle agent problem and Managerial Incentives in an integrated firm, Labour market equilibrium

Evaluation Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Pindyck, R and Rubinfeld, D. (2001). Microeconomics, 7th edition, Prentice Hall.
- Ahuja, H.L. (2006). Modern Microeconomics: Theory and Application, 14th edition, S. Chand Publication.
- Koutsoyiannis, A. (2005). Modern Microeconomics, 2nd edition, Macmillan Press LTD
- Parkin, M. (2008). Microeconomics, 8th edition, Pearson International.
- Baumol, William J. (2010). Economic Theory and Operations Analysis, 4th edition, Prentice Hall UK & PHI Learning Private Ltd. New Delhi.
- Varian, H.R. (2009). Intermediate Microeconomics: A Modern Approach, 9th edition, Affiliated East-West Press, New Delhi.
- Salvatore, D. (1991). Schaum's Outline of Theory and Problems of Microeconomic Theory, McGraw-Hill, International Edition, New Delhi.



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— R A J A S T H A N —



Course Name	Course Code	LTP	Credit	Semester
MACRO ECONOMICS ANALYSIS -II	BCH451	2:01:0	3	4

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand and apply equilibrium in goods and financial markets and the composite IS-LM framework.
CLO 2	Understand open-economy Macroeconomics, Balance of Payments, exchange rates and general equilibrium.
CLO 3	Understand how to apply economic principles to a range of policy questions.

B. SYLLABUS

Course Objective:

This course is to familiarize the students with the concepts of macro economics so that they can use these as inputs in decision making process. Emphasis would be laid on the understanding of key economic variables which influence the individual life and the business environment in which the business operations and strategies of the firm take place.

Course Contents:

Module I

Balance of Payments: Meaning and structure of balance of payments, kinds of disequilibrium in balance of payments, process of adjustment in balance of payments, Analysis of performance of Indian economy in the external sector

Module II

Foreign Exchange: foreign exchange market, exchange rate systems, exchange rate determination, fixed versus flexible exchange rate, Real Exchange Rate and Net Exports, Marshall-Lerner Condition, The J Curve, Devaluation in developing countries, Purchasing Power Parity

Module III

Walras' law, IS Curve: parametric shifts of IS Curve, Slope of IS Curve, LM Curve: impact of varying money supply, slope of LM curve, IS and LM- Fiscal and Monetary Policy; IS-LM in India

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Souza, Errol D (2012). Macroeconomics, 2nd Ed, Pearson Education
- Dornbusch, R., Fischer, S., & Startz, R. (2004). Macroeconomics, 9th Ed, McGraw-Hill
- Ahuja, H. L. (2006). Macro Economics, S. Chand & Company Ltd.
- Agarwal, V. (2010). Macroeconomics Theory and Policy, 1st Ed, Pearson India
- Mankiw, N. G. (2012). Macroeconomics, 8th Ed, Worth Publishers
- Barro, R. J. (1997). Macroeconomics, 5th Ed, The MIT Press
- Salvatore, D. (2012). Introduction to International Economics, 3rd Ed, John Wiley & Sons
- Branson, W. H. (1989). Macroeconomic Theory and Policy, 3rd Ed, HarperCollins India



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— R A J A S T H A N —

- Shapiro, E. (1982). Macro Economic Analysis, 5th Edition, Tata McGraw Hill.
- Dwivedi, D. N. (2003). Macroeconomics Theory and Policy, 4th Ed, Tata McGraw Hill.



Course Name	Course Code	LTP	Credit	Semester
MACRO ECONOMICS ANALYSIS -II	BCH451	2:01:0	3	4

A. COURSE LEARNING OUTCOMES (CLO)

At the successful completion of this course you (the student) should be able to:

CLO 1	Understand and apply equilibrium in goods and financial markets and the composite IS-LM framework.
CLO 2	Understand open-economy Macroeconomics, Balance of Payments, exchange rates and general equilibrium.
CLO 3	Understand how to apply economic principles to a range of policy questions.

B. SYLLABUS

Course Objective:

This course is to familiarize the students with the concepts of macro economics so that they can use these as inputs in decision making process. Emphasis would be laid on the understanding of key economic variables which influence the individual life and the business environment in which the business operations and strategies of the firm take place.

Course Contents:

Module I

Balance of Payments: Meaning and structure of balance of payments, kinds of disequilibrium in balance of payments, process of adjustment in balance of payments, Analysis of performance of Indian economy in the external sector

Module II

Foreign Exchange: foreign exchange market, exchange rate systems, exchange rate determination, fixed versus flexible exchange rate, Real Exchange Rate and Net Exports, Marshall-Lerner Condition, The J Curve, Devaluation in developing countries, Purchasing Power Parity

Module III

Walras' law, IS Curve: parametric shifts of IS Curve, Slope of IS Curve, LM Curve: impact of varying money supply, slope of LM curve, IS and LM- Fiscal and Monetary Policy; IS-LM in India

Evaluation Scheme:

Components	A	CT	CA	EE
Weightage (%)	05	15	30	50

Text & References:

- Souza, Errol D (2012). Macroeconomics, 2nd Ed, Pearson Education
- Dornbusch, R., Fischer, S., & Startz, R. (2004). Macroeconomics, 9th Ed, McGraw-Hill
- Ahuja, H. L. (2006). Macro Economics, S. Chand & Company Ltd.
- Agarwal, V. (2010). Macroeconomics Theory and Policy, 1st Ed, Pearson India
- Mankiw, N. G. (2012). Macroeconomics, 8th Ed, Worth Publishers
- Barro, R. J. (1997). Macroeconomics, 5th Ed, The MIT Press
- Salvatore, D. (2012). Introduction to International Economics, 3rd Ed, John Wiley & Sons
- Branson, W. H. (1989). Macroeconomic Theory and Policy, 3rd Ed, HarperCollins India



AMITY UNIVERSITY

— R A J A S T H A N —

- Shapiro, E. (1982). Macro Economic Analysis, 5th Edition, Tata McGraw Hill.
- Dwivedi, D. N. (2003). Macroeconomics Theory and Policy, 4th Ed, Tata McGraw Hill.

LEGAL FACET OF BUSINESS

Course Code: MTLOE202

Credit Units: 03

Course Learning Outcome:

After the completion of the course the students will be able to:

- To provide a basic understanding of various statutory provisions that confronts business managers while taking decisions
- Outline the concept of new areas of law practice

Module 1 The Indian Contract Act

Introduction – Definition of contract – agreement – offer – acceptance – consideration capacity to contract – contingent contract – Quasi contract – performance – Discharge – Remedies to breach of contract.

Module 2 Partnership & Agency

Essentials of partnership - Rights and duties of partner - types of partners- Dissolution of partnership- Conditions and Warrantees -Transfer of property
Essentials of Contract of Agency – Creation of Agency – Kinds of Agents – Comparison Between an Agent and Servant – Comparison Between an Agent and Independent Contractor – Relationship of Principal and Agent – Duties of an Agent – Rights of an Agent – Duties and Rights of the Principal – Termination of Agency

Module 3 Company Law

Formation – Memorandum – Articles – Shares – Debentures – Directors appointment – Powers and duties. Meetings – kinds – oppression & mismanagement – winding up

Module 4 Consumer Protection Law

The Consumer Protection Act, 1986; Object – Rights of Consumers –Consumer Complaint - Consumer Protection Councils – Redressal Machinery – District Forum – State Commission - National Commission.

Module 5 E-commerce & Cyber Law

Definition of E-commerce- The legal framework of cyberlaw-Jurisdiction; The Information Technology Act, 2000 and Objectives; Types of E-commerce- Business to Business (B2B),Business to Consumer (B2C), Consumer to Consumer (C2C),Consumer to Business (C2B), Business to Administration (B2A), Consumer to Administration (C2A); Important Issues in Global E-commerce- Legal aspects of e-commerce, E-security, Contracts and Liability, Jurisdiction, IPR issues; Pros and Cons of E-commerce, Ethics in E-commerce

Examination Scheme:

Components	P/S/V	CT	A	EE
Weightage (%)	30	15	5	50

Recommended Text books

- Business legislation for management M.C. Kuchal and Deepa Prakash, Vikas Publish House PVT Ltd.,
- Legal aspects of Business, Ravinderkumar, Cengage learning.
- Business law, Sathish B, Matur Tata Mcgraw Hill.
- Business law, D. Chandra Bose, PHI learning PVT Ltd.,

- Legal aspects of Business by Akhileshwar Pathak. Tata Mcgraw Hill.
- Legal aspects of Business by kubendran.
- Law Relating to Computers, Internet and E-Commerce (A Guide to Cyberlaws and The Information Technology Act, Rules, Regulations and Notifications along with Latest Case Laws) by Nandan Kamath

INDUSTRIAL IOT 4.0

Course Code: BRI 607

Credit Units: 03

Course Objective:

Industrial IoT is next generation multi-purpose concepts that allows different users to create applications of various domains with respect to personal and industrial domain and expertise. Students will be able to learn primary fundamentals of various programming languages and potential of those is to achieve modern computing requirements

Course Contents:

Module I:

Introduction to Arduino, ESP8266, Introduction to raspberry Pi. · 2. Measurement of temperature & pressure values of the process.

Module II:

Basics of Networking, Communication Protocols, Sensor Networks and some live project terminal concepts related to the above said domains.

Module III:

Analytics and applications, Business information from raw data; storage for the data , IIoT devices etc.

Module IV:

Introduction to Industrial Internet of Things, Using Sensor data mining and analytics, Designing and developing various IIoT systems and Various Industrial cloud platforms.

Examination Scheme:

Components	A	CT	S/V/Q	HA	EE
Weightage (%)	5	15	15	15	50

CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, EE: End Semester Examination;
Att: Attendance.

Text & References:

Text:

Boyes, Hugh; Hallaq, Bil; Cunningham, Joe; Watson, Tim (October 2018). "The industrial internet of things (IIoT): An analysis framework". Computers in Industry. 101: 1–12. doi:10.1016/j.compind.2018.04.015. ISSN 0166-3615.
"Why Edge Computing Is an IIoT Requirement: How edge computing is poised to jump-start the next industrial revolution". iotworldtoday.com. Retrieved 2019-06-03.

References:

"Target Hackers Broke in Via HVAC Company — Krebs on Security". krebsonsecurity.com. Retrieved 11 May 2017.
Mullin, Rick (22 May 2017). "The drug plant of the future". Chemical & Engineering News. Vol. 95, no. 21. Retrieved 29 October 2018.

Course Name	Course Code	LTP	Credit	Semester
INTERNATIONAL CRIMINAL LAW (CRIMINAL LAW HONS. PAPER-V)	ILM202 CRL	3:1:0	04	9

- A. COURSE LEARNING OUTCOMES (CLO)**

CLO 1	An appreciation that what appears “normal” or “just” in the context of one country’s criminal procedural laws may appear unusual or unjust in another;
CLO 2	An understanding of cross-border and international criminal law enforcement, and some of the problems they raise; A skill at spotting areas of potential misunderstanding among criminal law practitioners from different countries.
CLO 3	An understanding of cross-border and international criminal law enforcement, and some of the problems they raise;

- SYLLABUS**

Course Objective

The growing concerns of the international community resulted in a demand for international criminal prosecution before an international criminal tribunal for to international peace and security. The aim of this course is to analyze the differences in the jurisdiction of the International Criminal Court and the jurisdictions of the International Criminal Tribunal for former Yugoslavia and the International Criminal Tribunal for Rwanda. A comprehensive analysis of all provisions and jurisprudence developed by the various tribunals will be discussed. Importance will be placed on the nature of the differing relations that exist between the ICC, ICTY and ICTR with national criminal courts.

Course Details:

Module 1: Introduction

Introduction to International criminal law, Definition and History, Historical Evolution of International Crime, Sources of international criminal law, Subsidiary sources – judicial decisions and writings of publicists Treaties International Customary Law, General Principles of Law, Piracy jure gentium.

Module 2: International Criminal Courts and Tribunals

International Criminal Court
 ICC Jurisdiction over the Nationals of Non-States parties
 International Criminal Tribunal for Yugoslavia (ICTY)
 International Criminal Tribunal for Rwanda (ICTR)

Module 3: International Criminal Tribunals ad hoc and Principles and objectives of international criminal law

Treaty of Versailles Articles 226-230, League of Nations Statute of ICC 1937, *Nullum crimen sine lege*: Prohibition of *ex post facto* law, Modes of Criminal Responsibility and Defences, Exclusion of jurisdiction over persons under eighteen.

Module 4: State cooperation with international criminal courts and tribunals

State Sovereignty and International Criminal Law, India and Genocide Convention, India and 1949 Geneva Conventions – Supreme Court’s observations, India and Geneva Protocols 1977, Future of international criminal justice.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Cassese, Antonio, *International Criminal Law* (Oxford University Press, London, 2008) ed.2nd
- Schabas, William A., *An Introduction to the International Criminal Court*, (Cambridge University Press, Cambridge, 2001)
- R. Cryer, H. Friman, D. Robinson, E. Wilmschurst, *An Introduction to International Criminal Law and Procedure*, Cambridge University Press 2010, second ed.
- M.C. Bassiouni, *Introduction to International Criminal Law*, Transnational Publishers 2003.
- A.Cassese, *International Criminal Law*, Oxford University Press 2008, wyd. 2.
- A.Cassese, P. Gaeta, J.R.W.D. Jones (red.), *the Rome Statute of the International Criminal Court: A Commentary*, Oxford University Press 2002.
- Philippe Sands, ed., *From Nuremberg to the Hague: The Future of International Criminal Justice*, Cambridge, UK: Cambridge University Press, 2003
- Romano, A. Nollkaemper, J. Kleffner (red.), *Internationalized Criminal Courts and Tribunals: Sierra Leone, East Timor, Kosovo and Cambodia*, Oxford University Press 2004.
- W.A. Schabas, *the UN International Criminal Tribunals. The former Yugoslavia, Rwanda and Sierra Leone*, Cambridge University Press 2006.
- Convention on the Prevention and Punishment of the Crime of Genocide, 1948
- Principles of International Co-operation in the Detection, Arrests, Extradition Punishment of Persons Guilty of War Crimes, Crimes against Humanity, 1973
- Rome Statute of the International Criminal Court, 1998
- Ambos, Kai, “The Role of the Prosecutor of an International Criminal Court from a Comparative Perspective”, *Review International Commission Jurists*, 1997
- Askin, Kelly, “Crimes Within the Jurisdiction of the International Criminal Court” *Criminal Law Forum*, vol.10, n.1 (1999), pp. 33-59.
- Dadrian, Vahakn N., “Genocide as a Problem of National and International Law: The World War-I Armenian Case and Its Contemporary Legal Ramifications”, *Yale Journal of International Law*, vol. 14 (1989).
- Meron, Theodor, “International Criminalization of Internal Conflicts”, *American Journal of International Law*, vol.89 (1995), pp. 554–574.
- Schabas, William, “The Jelesic Case and the Mens Rea of the Crime of Genocide”, *Leiden*

Course Name	Course Code	LTP	Credit	Semester
DISSERTATION	ILM 205	0:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding a legal topic in detail i.e. interrelation with socio-legal-political aspects and encourages findings of research into a specific area of the law studied during the course.
CLO 2	It shall enable to develop transferable skills that will be useful during any law career.

B. SYLLABUS

There is no specific syllabus but students are required to undertake research on a legal topic of his/her area of interest and prepare Dissertation.

Guidelines

The Dissertation submitted to the University shall be in accordance with the structure and format laid down as follows:

1. Research report should be printed on **A4 size paper on one side with font size 12, 1.5 Line spacing in “Times New Roman” along with foot notes font size 10 line spacing 1 in “Times New Roman”(End notes shall not be accepted)with minimum 150 number of pages.**
2. There must be a **preliminary submission of Research synopsis** of 15-20 pages in specified format to the allotted Supervisor for the said purpose positively on the assigned date. Modifications (if any) suggested by Guide must be incorporated so that final copy could be submitted to the ALS Record Room
3. Final Research work should be in **properly Hard bind form (in black colour with golden font in specified format)** and must be submitted in **3 copies** to the University after panel approval.
4. **All students are required to submit their respective topic and Synopsis of dissertation (Topic selected specifically from Honors Paper) on or before stipulated date positively. They have to send their topic of dissertation to their respective guides within stipulated time limit only.**
5. Students are required to submit **progress report of research at every 15 days interval** to their respective Guides.
6. Final dissertation topic shall be selected and registered after consulting/discussing with the allotted Supervisor taking all relevant factors into consideration.
7. Allotted Supervisors/ Guides are required to submit final list containing details of allotted students along with Dissertation Topic assigned to them to the Dean ALS in written on the same date assigned to submit the final topic positively.
8. **No request for the change of Dissertation Topic will be entertained after the submission of the said list.**

9. All the students are expected to submit their original work. Any form of plagiarism found in the final copy of the research report submitted by the student(s), he/she shall be subjected to disciplinary action of the appropriate authority.
10. The allotted guide shall have the discretion of not to accept the final research report submitted by the student(s), if he/She is not satisfied by the work done by the said student(s).
11. Students are supposed to submit their final research report **along with the soft copy** within the stipulated time. It is **mandatory to have signatures of Researcher and Scholar** in the Research Project at the time of presenting final copy before the panel.
12. **Research report produced after the said stipulated time shall not be accepted** by the appropriate authority.
13. **Presentation of Dissertation is mandatory** for each student on their respective approved topics that shall be of **minimum 10 minutes to maximum 15 minutes before the External Panel**. Students are required to **be in formal uniform on the date of final presentation** and should have his/her **own arrangements of pen drive and laptop for the presentation**.
14. Citations should follow the rules as detailed in *The Bluebook: A Uniform System of Citation, (19th Edition)* for a simple idea, contributors may refer to the table below which deals with some important formats of citation according to the Bluebook. This is not an exhaustive list and is not intended to be a comprehensive guide to the Bluebook itself. Contributors are encouraged to adhere to the Bluebook in its entirety for the purpose of maintaining uniformity in their citation format.
15. Research report should be properly page numbered, aligned, Justified and chronologically arranged as per the under mentioned format.

Evaluation Criteria for the Assessment of Dissertation

The Evaluation of Dissertation shall be out of **200 Marks**. It shall be done according to the following Criteria by the respective Faculty Supervisors:

A. Internal Assessment: For 100 Marks

- **Content Writing** – Out of 50 Marks
- **Analysis / Conclusion and Suggestion** - Out of 20 Marks
- **References &Annexure**- Out of 10 Marks
- **Methodology/ Data Collection** – Out of 5 Marks
- **Chapterization**- Out of 5 Marks
- **Typological Formatting**- Out of 5 Marks
- **Progress Report Evaluation (Feb - March)** - Out of 5 Marks

B. External Assessment: For 100 Marks

- **Presentation skills**- Out of 15 Marks
- **Domain of Subject Matter**- Out of 40 Marks
- **Conclusion Drawn**- Out of 15 Marks
- **Answer to the question by the Panel**- Out of 30 Marks

Course Name	Course Code	LTP	Credit	Semester
TUTELAGE	ILM 206	0:0:0	1	2

A. COURSE LEARNING OUTCOMES (CLO)

1.	Learners will understand and be able to apply teaching methodology and develop research skills practices in the workplace.
2.	It shall develop confidence and learning, communication and presentation skills of learners.

B. SYLLABUS

Course Objectives:-

- 1 To enhance research and teaching capability
- 2 In depth study of the topic concerned to solve the students query
- 3 To develop confidence and also communication skills / presentation skills

Rules

1. The study material (prepared by student) has to be submitted to the concern faculty on the same day of presentation. Lecture notes will be kept as record and will be included in evaluation.
2. Each class will be calculated separately and will be of 10 marks each and will be included for final evaluation.
3. Each student will undergo 14 classes in total. Best 10 classes will be considered for scoring. The marking will be calculated accordingly.
4. Mode of teaching can be lecture method / PPT method.
5. Every Student will be given four days time for preparation(approx).
6. Schedule of the student class and faculty allotted will be intimated on every Friday for next week.
7. Student may take guidance from faculty member for further improvement.
8. If a student fails in tutelage program, he / she have to repeat the same in next semester only along with the subsequent batch since in supplementary exam it is not possible to conduct tutelage classes.
9. In case of ill health of the faculty / student, student needs to do mutual arrangement for the class session after informing the coordinator. If the student does not report even after being informed earlier, he'll be marked absent and no marks will be allotted for that class.

Examination Scheme

Components	EE	10 classes
Weightage (%)	100	10 (per class)

BAR 109 PRESENTATION TECHNIQUES

Course Code: BAR 109

Credit Units: 01 L/0-ST/0-P/2

Teaching hours: 02

A. Course Learning Objective

CLO 1 :	Develop the understanding of various most relevant Presentation Techniques for the purpose of Design Project.
CLO 2 :	Develop the ability of lateral thinking required for visualizing the balance between various building materials & elements.
CLO 3:	Create better design solutions in an effective way by enhancing the observation and learning skills through existing projects.

B. Syllabus

Course Objectives:

- To familiarize the students with the fundamentals and vocabulary of design.
- To expose the students to the practice of arts appreciation
- To enable the students, represent their ideas in different media through aesthetically pleasing compositions.

Course Contents:

Module I: Principles of design- 2 weeks

Introduce the students to the fundamental elements of art -line, shapes, form, space, colour, value & texture. Exercises will involve application of these elements.

- Impart conceptual and procedural knowledge about principles of design- Balance, unity, pattern, emphasis, movement, rhythm, and contrast. Exercises will require implementation of these principles

Module II: Fundamentals of Colours- 3 weeks

Introduce the students to the fundamental terminologies of colour - hue, intensity, value, shades, tints, warm & cool colors– Learning their synthesis and application through exercises. Enable the students to comprehend the qualities of colours –Colour wheel - Primary, Secondary & Complementary colours. Learning their synthesis and application through exercises.

Module III: Various Mediums of Drawings -3 weeks

Familiarize the students with the different mediums of drawing- Pencils, ink and water colour. Exercises will include creation of simple art works using the various mediums.

Module IV: Free hand drawing - 2 weeks

Up skill the students with techniques of free hand drawing. Exercises will involve drawing of still life objects and outdoor sketches like buildings, streets, etc.

Module V: Art Appreciation - 2 weeks

Expose the students to the practice of interpretation of visual representation like ideas, emotions, and activities. Demonstrate examples to students. Exercises will include synthesis of graphics art with a background expression.

Examination Scheme:

Components	A	CE	CT	EE
Weight age (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Architectural Graphics, C. Leslie Martin

- Architectural Graphics, Francis D.K. Ching
- Rendering with Pen & Ink: Robert W. Gill
- The Color Source Book for Graphic Designers: Sadao Nakamura
- Time Saver standards for building types, Editor Joseph D.C. and John Callender
- Neufert's Architect's Data
- Architectural model making by Nick Dunn

Architectural Model Building by Roark T. Congdon

BAR 308 PHOTOGRAPHY

Course Code: BAR 308 Credit Units: 01 L/0-ST/0-P/2 Teaching hours: 02

A. COURSE LEARNING OUTCOME:

CLO 1	A comprehensive knowledge and understanding of light, exposure and colour , and their application in architectural lighting
CLO 2	An advanced understanding of theories of photographic composition, balance and weight
CLO 3	A knowledge of the history of architectural photography, with an awareness of the contextual boundaries within, and outside of, the genre.
CLO 4	An advanced ability to use film and digital cameras to capture and create outstanding photographs of architecture, form and space
CLO 5	A comprehensive knowledge and understanding of digital photographic image manipulation and processing techniques using industry standard software programmes

B. SYLLABUS

Course Objectives:

- This course will teach students to create successful images of exterior architecture, interior architectural design, as well as architectural models.
- The course discusses equipment, processes, and procedures necessary for the photography of building exteriors and interiors, dusk/night and night architectural landscapes, and construction progress.
- Students will learn to use Digital SLR cameras, lighting techniques, software and to create output.
- Students will be able to use High Dynamic Range (HDR) : multiple exposures to create dramatic architecture/interior images without additional professional lighting.

Course Contents:

Module I: Introduction - 2 weeks

Architectural Photography Origins of architectural photograph, Review of architectural photographs, Light and Shades, Understanding light – Properties and elements of light. Basics of camera – Operations and Control Parallax Error, use of camera, lens and understanding lighting conditions. Pixels, resolution, Sensor size etc.

Module II: Light & Planning – 4 weeks

Understanding light and photography, External lighting- Direction of lighting - front, side, back, shadows, texture, and effects of clouds, light modification, psychological effects, and types of artificial lighting, combined daylight and flash. Overview of architectural photography, Color balance, Reading histogram, White balance and Color temperature.

Module III: Creativity in Photo shooting - 4 weeks

Shooting Finding Forms and Shapes, Elements and Principals of framing, Rules of composition, Aesthetic of framing and composition, Perceptual Control, Depth of field and center of confusion, Exterior and interior photography, Flash control etc.

Module IV: Quality & Safety Management - 4 weeks

Introduction to software, RAW file editing, HDR Imaging, Adobe Photoshop and Light room, Retouching and color correction, Printing Preparation Module IV: Framing Views Single point and two point perspective- examples, distortions, emphasizing architectural elements, effect of camera to subject distance, oblique angles, three point perspective- applications in interiors and exteriors - composition, symmetric composition, applying the law of thirds - examples, image capture to publication

Project: Students should submit two projects at the end of the semester. (a) Interior Photography (b) Exterior Photography .

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Ackerman, J. S. (2001). On the origins of architectural photography. Mellon lecture, December
- Harris, M. G., & Harris, M. G. (1998). Professional architectural photography. Oxford: Focal Press
- Rosa, J., & McCoy, E. (1994). A constructed view: The architectural photography of julius Shulman, Rizzoli Intl Pubns.
- Siskin, J. (2012). Photographing architecture: lighting, composition, postproduction, and marketing techniques. Buffalo, NY: Amherst Media
- Schulz A., Architectural Photography: Composition, Capture, and Digital Image Processing, O'Reilly Media Inc., 2010

Online Resources

<https://www.udemy.com/topic/architecturephotography>

BAR 309 VERNACULAR ARCHITECTURE

Course Code: BAR 309

Credit Units: 01

L/0-ST/0-P/2 Teaching hours: 02

A. COURSE LEARNING OUTCOME:

CLO 1 :	To understand how the contexts of a region have an impact on vernacular architectural forms.
CLO 2 :	To explore various traditional materials and construction techniques used in vernacular architectural forms.
CLO 3 :	To acquire knowledge on traditional materials and construction techniques which can be used in the design of built spaces in the modern context.
CLO 4 :	Understanding the impact of context of a region over architectural forms and expressions will lead to sensible and context specific and sensitive design solutions.

B. SYLLABUS

Course Objectives:

To expose the students to traditional architecture of the various parts of the country. The students will have knowledge of the planning aspects, materials used in construction, constructional details and settlement planning of the settlements in various parts of the country.

Course Contents:

Module I: Introduction to Vernacular Architecture

Approaches and concepts to the study of Vernacular Architecture – Introduction to Kutcha architecture and Pucca architecture and architecture without architects developed through experience based on local material.

Module II: Southern region

Planning aspects, materials of construction, Constructional details & Settlement Planning of:

- Kerala – Nair houses (Tarawads), Kerala Muslim houses (Mappilah houses), Temples, Palaces and theaters – Thattchushastra.
- Tamil Nadu – Toda Huts, Chettinad Houses (Chettiars) & Palaces
- Karnataka – Gutthu houses (land owning community), Kodavaancestral home (Aynmane)
- Andhra Pradesh –Kaccha buildings Religious practices, beliefs, culture & climatic factors influencing the planning of the above.

Module III: Western Region:

Planning aspects, Materials used, Constructional details, Climatic factors influencing the planning of

- Jat houses for farming caste, Bhungas(Circular Huts) and Havelis(Pukka houses) of Rajasthan
- Pol houses of Ahmedabad - Primitive forms, Symbolism, Colour, Folk art etc in the architecture of the deserts of Kutch & Gujarat state.
- Vernacular architecture of Goa.

Module IV: Northern and Eastern India

Planning aspects, Materials used, Constructional details, Climatic factors influencing the planning of

- Kashmir – Typical Kutcha houses, mosque, Dhoongas(Boathouses), Ladakhi houses, bridges
- Himachal Pradesh – Kinnaur houses
- Uttar Pradesh – Domestic housing of Uttar Pradesh
- Bengal – Bangla (Rural house form), AatChala houses – change from Bangla to Bungalow, Kutcha & Pucca architecture of Bengal.Nagaland – Naga houses & Naga village, Khasi houses Factors influencing the planning aspects, materials of construction & constructional details of the above.

Module V : Vernacular Architecture

Overview of vernacular Architecture of neighbouring countries and world such as Africa, UAE etc.

Exercise : Students may be advised to prepare case studies through literature/online/ site visits and submit report.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Traditional buildings of India, Ilay Cooper, Thames and Hudson Ltd., London
- Architecture of the Indian desert, Kulbushan Jain & M eenakshi Jain, Aadi Centre, Ahmedabad
- The Royal Palaces of India, George M ichell, Thames and Hudson Ltd., London
- Chettiar Heritage, S.Muthiah, M eenakshi M eyappan, Visalakshmi RAMASWAMY, Lokavani-Hallmark Press Pvt. Ltd., Chennai
- Encyclopaedia of Vernacular architecture of the World, Cambridge University Press
- Havali – Wooden houses & mansions of Gujarat, V.S.Pramar, Mapin Publishing Pvt. Ltd., Ahmedabad
- The Tradition of Indian architecture – Continuity & Controversy – Change since 1850, G.H.R.Tillotsum, Oxford University Press, Delhi
- VISTARA – The architecture of India, Carmen Kagal. Pub : The Festival of India, 1986.
- House, Form & Culture, Amos Rappoport, Prentice Hall Inc, 1969

BAR310 MODELMAKING WORKSHOP

Course Code: BAR 310

Credit Units: 01

L/0-ST/0-P/2 Teaching

hours: 02

A. COURSE LEARNING OUTCOME:

CLO 1 :	To remember different tools used in carpentry, masonry and surface painting
CLO 2 :	To understand the technique of applying construction material such as brick, cement, wood, stone and its testing.
CLO 3:	To construct different building components like dome, arch and wall with various typologies.
CLO 4 :	To create new forms and structures using the learned techniques.

B. SYLLABUS

Course Objectives:

To introduce various fabrication skill and techniques to produce scale –models and to encourage preparation of models as an essential phase in design development and evaluation.

Course Contents:

Module I: Introduction to model-making - 4 weeks

Need, role of scale models in design, general practices, Essentials of model-making, understanding of various tools And machines employed, best practices involved in operating the tools and the techniques.

Module II: Materials for model-making - 4 weeks

Introduction of various materials available for model making such as papers, mount boards, mount sheets, wood, plastics, films, plaster of Paris, acrylic sheets, metal, glass, FRP etc. Potential of these materials, in model-making

Module III: Techniques of scale-modeling- 6 weeks

Use of different scale, templates, measuring aids, conventions followed. Techniques for preparation of presentation models, mock-ups, simulation of various materials and textures such as wood, glass, aluminum, steel, bricks, roofing tiles, flooring, etc. Models with soft materials like; clay, plaster of Paris etc. Models of shells & membrane structures by use of canvas molding cloth

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

- Architectural Models: Construction Techniques – Wolfgang Knoll, Martin Heching
- Model-Making: Materials and Methods – David Neat

Reference Books

- The aesthetic experience –magnet Jacque Form, Space & Order – D.K Ching.
- Object by Architects – tapert,Annette,swidpowell Art Forms – Preble,duame

BAR 410 ARCHITECTURE DOCUMENTATION

Course Code: BAR 410

Credit Units: 02

L/2-T/0-P/0

Teaching hours: 02

A. Course Learning Outcome

CLO 1	Understand the qualities of building spaces and their elements
CLO 2	Learn the methods involved in documentation like scaled drawings, photographic documentations, mapping, etc
CLO 3	Analyze the buildings visually and record the context and need
CLO 4	Evaluating and assessing the building properties and terminologies
CLO 5	Compile and assess the recordings

B. Syllabus

Course Objectives:

- To familiarize the students with various aspects, issues and considerations related to the documentation of architecture and its characteristics so that its heritage and inherent values can be identified and recorded.

Course Contents:

Module I: Introduction to Architectural Documentation - 2 weeks

Introduction to documentation of historical buildings includes not only measured photographic survey, but also surveying of the qualities of building spaces and their elements. Identification and understanding the use and purpose of the documentation.

Module II: Methodology- 3 weeks

Detailing the purpose, scaled drawings, photographic documentation, visual analysis, classification and mapping of the spaces and their elements. The originality of these spaces and elements are evaluated within the frame of research results that are previously published, site surveys made. Use of modern equipment such as 'CANVAS' and its interface with I-pad and AutoCAD etc to be understood.

Module III: Analysis - 3 weeks

Visual analysis consisting of analysis of spatial element and architectural elements need be understood. The spaces grouped according to their functions and the elements grouped according to their types. Visual analysis of onsite elements, outside elements need to be recorded. The context of the building need to be understood and recorded.

Module IV: Evaluation &Characterstics - 3 weeks

Distinguishing the modern with traditional architecture in terms of elements, details etc. Sketching and tabulating the spatial characteristics and their types

Module V: Compilation & Assessment - 3 weeks

Classification and comparison is an effective way to decipher architectural characteristics of a historical Building with its originalities and alterations. The compilation should be as realistic as possible without the opinion of the compiler to retain the authenticity of the project.

NOTE-Students may be assigned a case study to assess the understanding of the subject.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	C E	CT	EE
Weightage (%)	0 5	2 5	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Glenn E. Wiggins, Manual of Construction Documentation: An Illustrated Guide to Preparing Construction Drawings, 1989, Whitney Library of Design.
- John H. Stubbs, Robert G. Thomson, Architectural Conservation in Asia: National Experiences and Practice.
- Wiley, Landscape Architecture Documentation Standards: Principles, Guidelines, and Best practices, 2016, John Wiley & Sons Inc.
- Architectural Heritage, New Technologies in Documentation: Council of Europe, 1990

BAR411 BARRIER FREE ARCHITECTURE

Course Code: BAR 411 Credit Units: 02L/2-T/0-P/0 Teaching hours: 02

A. Course Learning Outcome

CLO 1	To learn about Importance of Barrier free Architecture and uses in various types of buildings.
CLO 2	To know standards and norms for the Barrier free design.
CLO 3	To understand the importance of Barrier free design using Case studies of Design
CLO 4	To Evaluate existing public building and residential building using norms and Standards
CLO 5	To Redesign existing public building using norms and Standards

B. Syllabus

Course Objectives:

The objective of course is to learn the principles of barrier free design and concepts of universal design. It Provides an idea about barrier free construction principles in buildings while understanding of the key aspects and systems of specially able persons built space in architecture.

Course Contents:

Module I: Special Abilities

Understanding the different human impairments such as visual, mobility and hearing and also understanding the abilities of such differently able persons. To understand the architectural requirements of such persons.

Module II: Introduction to Architecture for specially able

Defining the basic concepts of barrier free design, need for barrier free concepts in architecture, concepts of universal design and types of disabilities. Design principles for barrier free architecture and accessibility for all.

Module III: Barrier free elements for outdoors and Urban Design

Design elements outside the building like curb ramps, pedestrian crossing, public toilets, and parking, signage, flooring and street furniture. Case examples of Barrier free architecture in India and across the globe. To study the anthropometrics and dimensions of mobility devices, special fixtures for barrier free design. Barrier free construction materials and dimensions for flooring, walls, doors, windows, staircases, elevators, toilets, entrances and corridors.

Module IV: Laws

Knowledge of different laws prevailing within India and in other countries. Understanding implication of different laws on design of spaces.

Module V: Case Study, Presentation & Design elements

Barrier free architecture in Public Buildings – dimensions and standards. Case Study of Barrier free elements in Public buildings, Photographic documentation and Presentation. Incorporation of barrier free elements in project being pursued in architectural design.

Examination Scheme:

Componen ts	A	C E	C T	E E
Weightage (%)	0 5	2 5	2 0	5 0

Text & References:

- Guidelines and Space Standards for Barrier Free Built Environment for Disabled and Elderly Persons – Central Public Works Department, Ministry of Urban Affairs & Employment, India, 1998

IS – 4963 (1987), Recommendations for buildings and facilities for Physically Handicapped

BID 608 VAASTU IN ARCHITECTURE

Course Code: BID 609

Credit Units: 02 L-2/ST-0/P-0

Teaching hours: 02

A. Course Learning Outcome

CLO 1	Understand the philosophy and believes in Vastu
CLO 2	Learn the relationship between humans and cosmos
CLO 3	Learn the concepts of vedicvastu
CLO 4	Learn the site planning and planning approaches of vastu
CLO 5	Produce building plans as per vastu

B. Syllabus

Course Objectives:

- To educate the students on Vastu Shastra so that our own built environment should be in harmony with the energy of the inmates living in it.
- To expose the students to the various theoretical and practical aspects of Vastu Shastra.
- To familiarize with the ancient mode of designing a building in amalgamation with the latest technologies available.

Course Contents:

Module I: Introduction to Vastu

Introduction to Vastu, History of Vastu, Vedas and other ancient books, Growth of Vastu, Vastu and today, Scientific definition of Vastu, Solar Passage & Buildings with research referencing, Solar Energy, Humans & Buildings, Cosmic Energy & Flow:

Module II : Vedic Vastu

Concept of Vedic Vastu, VastuPurush, Mandalas, Five Elements Theory, Planets & Directions.

Module III : Planning As per Vastu

Direction and Corners, Eight directions, Importance of directions, Slope & Loading Pattern, Open space & balconies, Shapes, Vedic opinion on entries, Alternative opinion on entries, Main Door & Main Gate. Planning for Bedroom, Kitchen, Puja room, Bathroom, Children's room, Drawing Room, Living Room, Office Room.

Module IV : Land & Location as per Vastu

Angles in a Plot & Building, VeedhiShoola, Angles & Extentions, Shermukhi&Gaumkhi plot, Good & Bad Location. Selection of land & soil test, Examination of the land as per Mayamata&Brahit Samhita, Types of Land as per Vedic books, auspicious land & Inauspicious land, Obstructions.

Scientific correlation of Vaastu

Examination Scheme:

Components	A	CE	CT 1	EE
Weightage (%)	05	25	20	50

Text & References:

Text:

- B.B. Puri, Applied Vastu Shastra in Modern Architecture
- Michael Borden, Vastu Architecture: Design Theory and Application for Everyday Life
- Kathleen Cox, Vastu Living: Creating a Home for the Soul
- Talavane Krishna, TheVaastu Workbook: Using the Subtle Energies of the Indian Art of Placement
- Sherri Silverman, Vastu: Transcendental Home Design in Harmony with Nature
- Rohit Arya, Vaastu: The Indian Art of Placement

Domain Electives – IX
BID806 INTELLIGENT INTERIORS

Course Code: BID806 Credit Units: 02 L/2-T/0-P/0 Teaching hours: 02

CLO 1	Understanding the scope, importance and need of the urban design. Learn the principles and concepts of the urban design. Appreciate the requirements of urban design guidelines.
CLO 2	Evaluate urban design concepts applicability in different-different contexts by studying cases.
CLO 3	Apply the learning of the previous semester and urban design to evolve a unique. Concept for a real urban design project.
CLO 4	Evolve specific urban design guidelines, policies and recommendations for the project.
CLO 5	Create an urban design proposal for the given project in terms of presentation drawings, 3D model; 3D views etc as per the given requirements.

Course Objectives:

Technology is becoming inherent part of modern life and has invaded every aspect of our life including the building interiors. Intelligent interiors are one of the most important parts of the modern buildings and objectives of the course is to make students aware of the use of technology in interiors.

Course Contents:

Module I: Introduction - 2 weeks

Overview of intelligent interiors and use of electronics & IT equipment for creating interesting interiors.

Module II: Intelligent Safety Systems - 3 weeks

Use of technology to maximize the performance of fire alarms and security systems while at the same time minimizing costs. Incorporation of safety equipment such as CCTV etc aesthetically in the interiors.

Module III: Workplace automation - 2 weeks

Intelligence with respect to workplace automation in an intelligent interior consists of the use of high – tech office automation systems to render the operation of a company more efficient. This can be done at a reduced cost to tenants by virtue of the equipment being shared.

Module IV: Automation of interiors - 2 weeks

Remote control in interiors, Managing and monitoring building efficiency from distance. Managing Security, HVAC etc from distance.

Module V: Virtual spaces and interiors - 3 weeks

Learning ways & system of creating such spaces that change shape/ size/ ambience/ colour etc. to change according to performance & suite the audience- D/4D/6D interiors. Interiors to suit the model & behavior of the user. Right from ones entry to the building to reach his final destinations. Temperature, light and colour control.

Module VI: Intelligent use of energy - 2 weeks

Intelligent interiors consist of energy use to the minimum with computerized system. To control light, airflow, air-conditioning, outdoor light entering the building heating and minimizing the energy consumption.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text

- ‘Drywall (Pro Tips for Hanging & Finishing), John D. Wagner
- Graphic Interiors (Space Designed by Graphic Artists), Corina
- Dean Interior design illustrated , Francis D.K. Ching
- Graphic Interiors (Space Designed by Graphic Artists), Corina Dean

Reference Books

- A.J. Metric Handbook, Jan Bilwa and Leslie Fair weather Architectural Graphic standards, Boaz Joseph
- The Curtain Book, Mitchll Beazlty
- Illustration + Perspectives (In Pantone Colors), Eiji Mitooka

BID 807 DISASTERRESISTANT ARCHITECTURE

Course Code: BID 807 **Credit Units: 02** L/2-T/0-P/0 **Teaching hours: 02**

CLO 1	Identification of research area and preparation of research proposal
CLO 2	Literature study and data collection
CLO 3	Analysis of site and data
CLO 4	Prepare research methodology
CLO 5	Preparation of reports and drawings

Course Objectives:

- To familiarize the students to the various theoretical and practical aspects of disasters and explain them the precautions to be taken indesign resistant structures.
- To introduce the disaster management techniques and method of rehabilitation
- To make them understand the concept of shelter housing, etc.

Course Contents:

Module I: Introduction - 2 weeks

Overview of disasters; major natural disaster – flood, cyclone, droughts, landslide, heat waves, earthquakes, fire hazards etc. andtheir importance to architects.

Module II: Factors Causing Earthquake - 3 weeks

Module content Basic understanding on fragile eco-system, physiographic and geo-chemical data mapping, soil and topography,hydrological factors, climatic conditions. Site planning, building form and shape, considerations for earthquake resistant buildings

Module III: Strategies for Disaster Prevention- 3 weeks

Engineering, architectural, landscaping and planning solutions for different types of calamities. Norms, standard practice proceduresfor shelter and settlement

Module IV: Fire Safety in Buildings - 3 weeks

Understanding Fire. Learning precautions for fire resistant buildings, Designing the fire resistant building using modern constructiontechniques and materials, Fire safety in multistoried buildings.

Module V: Laws Related to Disasters- 3 weeks

Fire related Laws for buildings, Earthquake related laws, provisions in NBC and other standards laid down by Bureau of IndianStandards

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Dynamics of Structures by A. K. Chopra
- Building Configuration and Seismic Design, C. Arnold and R. Reitherman
- Earthquakes An Architect’s Guide to Non-Structural Seismic Hazard, H. J. Lagorio
- Handbooks by IIT Kanpur for Earthquake Design.

- The Seismic Design Handbook, F. Naeim
- Design for Earthquakes, J. Ambrose and D. Vergun

BID808 TENSILE CONSTRUCTION

Course Code:
BID808

Credit Units: 02

L/2-T/0-P/0 Teaching hours: 02

CLO 1	Comprehend Design Process for developing Products.
CLO 2	Employ ergonomics in Product Design
CLO 3	Select appropriate production technology
CLO 4	Develop an innovative product prototype.
CLO 5	Employ material understanding in Product Design

Course Objectives:

- To demonstrate how tension structures, expand the boundaries of form and function while educating you on the process of their development from concept to completion.

Course Contents:

Module I: Introduction to tensile constructions-2 weeks

The theme and concept of the tensile construction shall be introduced to give the background from the temporary to permanent tensile structures.

Module II: Tensile Shapes and Structures-3 weeks

The creative challenge to designers is to explore the development of striking new forms, which satisfy the structural requirements of the membranes surface. Developing new shapes of push-up elements, and varying the design of the perimeter connections enables dramatic variation in the appearance of a structure. so, this can be done by learning Stress – strain diagram in simple tension, perfectly elastic, Rigid – Perfectly plastic, Linear work – hardening, Elastic Perfectly plastic, Elastic Linear work hardening materials, Failure theories, yield conditions.

Module III: Materials for Tensile Structure-3 weeks

The ability of fabric to form double curvature surfaces and its inherent translucency has always been attractive for designers. But with the advent of computer form finding and the development of reliable structural fabrics the world of tensile structures took a giant leap forward this will also lead to know and design different other kinds of material used for such structure.

Module IV: Tensile Structure for Indoors and Outdoors Spaces-3 weeks

This is to understand the various use of tensile in outdoors as well as in indoors for space designing and also develop an effective means and method of its design, installation, and use.

Module IV: Model Making in Tensile Structure-2 weeks

One common issue is that tensile are difficult to draw and harder still for the client to visualize to solve this we need to resolve this by the help of models.

The traditional way around this was to create a physical model (using a curious combination of foamboard, timber dowels and ladies’ tights). Now we have a whole range of CAD programs such as ‘Rhino Membrane’* that can give designers the tools for the job.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Timoshenko & Goodier, “Theory of Elasticity”, McGraw Hill.
- Srinath L.S. (1994), Advanced Mechanics of Solids, 10th print, Tata McGraw Hill Publishing company, New Delhi,
- Sadhu Singh, “Theory of Elasticity”, Khanna Publishers.

BAR1011 VIRTUAL ARCHITECTURE

Course Code: BAR 1011 Credit Units: 02. L/2-T/0-P/0. Teaching hours: 02

CLO 1	To familiarize students with recent trends that led to development of virtual architecture with development of virtual reality and simulation technology
CLO 2	To train students in basic and advance softwares for architectural visualization

Course Objective:

- To familiarize students with recent trends that led to development of virtual architecture with development of virtual reality and simulation technology
- To train students in basic and advance softwares for architectural visualization

Course Contents:

Module I: Introduction- 2 weeks

Definition of virtual architecture, historic developments tracing influence of virtual reality and simulation technology on the contemporary architecture, advantages and disadvantages, major movements, key architects and architectural examples of this era.

Module II: Basic Modeling and Rendering- 2 weeks

3D Cad Modeling, Wire frame, mesh, solid and superficial Management of the 3d scene, Poly-mesh modeling and for dividing surfaces, 3D animation, Basic surface materials, Elaboration of the image, direct analysis and experimentation of the most solid and fruitful techniques of modeling and of management of 3D geometries in the AutoCAD

Module III: Advanced Module- 3 weeks

BIM- Parametric modeling, Management of the 3d scene, Exterior and interior lighting, studio setup, Advanced surface materials, Creation of 3d models starting from a photogrammetric relief, Photorealistic rendering, 3D vegetation – environment design, Grammar of the direction, Elaboration of the image, Video compositing, Storyboard, Video mounting, Video post- production, Color correction, Multiphases and animation, Visual effects, 3D spaces

Module IV: Advanced architectural visualization- 3 weeks

Tools for photorealism, During the advanced module of the Masters, students will explore techniques of BIM technology, modeling inside the Revit software.

Module V: Project - 4 weeks

Students will work on the research of the photorealism and of the quality of the image inside the 3DS Max software, also thanks to the addition of a V-Ray output engine: this is a couple that since many years is the real standard in many productive realities all around the world.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Conway Lloyd Morgan, Giuliano Zampi, Virtual Architecture, 1995, McGraw-Hill Inc., US Marta Jecu, Architecture and the Virtual, 2015, Intellect
- Don Cameron, Greg Regnier, The Virtual Interface Architecture, 2002, Intel Press
- Daniela Bertol, David Foell, Designing digital space: an architect's guide to virtual reality, 1997, Wiley
- Michael Beigl, Disappearing Architecture: From Real to Virtual to Quantum, 2005, Springer Science & Business Media

RESEARCH METHODOLOGY

Course Name	Course Code	LTP	Credit	Semester
RESEARCH METHODOLOGY	MCP103	2:1:0	3	1

A. COURSE LEARNING OUTCOMES

CLO1	Develop conceptual clarity of the research methodology and researches in applied fields of psychology and its significance and importance to the students.
CLO2	Learn different techniques of sample selection
CLO3	Learn to process data through parametric and non parametric statistical analysis of quantitative and qualitative data and various research designs.
CLO4	Selection of statistical methods, Interpretation of the data
CLO5	Writing a research report

B. SYLLABUS

Course Objectives: Through this course student should be able to:
 Know about the basics of scientific research in applied psychology.
 Learn the statistical rigors in designing research and processing data.
 Apply basic framework of research process, research designs and techniques.

Course Contents:

Module I: Introduction to research basics and ethics – 8 hours

Meaning, purpose and dimensions of research. Objectives, Types, Approaches and Significance of Research. Methods Vs Methodology. Various research methods. Problems encountered by researchers in India. Ethical problems and principles in Research.

Module II: Components and Process of Research – 7 hours

Nature of data, Defining and stating a research problem, Criteria of a good problem, Meaning and Types of Hypothesis, Criteria, formulation and stating a hypothesis, hypothesis testing.

Module III: Research Traditions – 7 hours

Functions and sources in Reviewing literature. Characteristics of Parametric and Non-Parametric Statistics. Applications of psychological testing in various settings.

Module IV: Sampling – 7 hours

Meaning and Types of sampling, Sampling procedures, Sample size and other attributes, Merits and Limitations of sampling.

Module V: Methods and Report writing – 7 hours

Selection of statistical methods, Interpretation of the data. Writing a Research Report.

Text:

Kerlinger, F. N. (1973). *Foundations of behavioral research*. USA: Holt, Rinehart & Winston.
 Chadha, N. K. (2009). *Applied psychometry*. New Delhi, India: Sage.

References:

Bridget, S., & Cathy, L. (Eds.) (2008). *Research methods in the social sciences*. New Delhi, India: Vistaar Publication.
 Gliner, J. A., & Morgan, G. A. (2000). *Research methods in applied settings: An integrated approach to design and analysis*. Mahwah, NJ: Lawrence Erlbaum.
 Howell, D. C. (2002). *Statistical methods for psychology* (5th ed.). Duxbury, California: Thomson Learning.

Examination Scheme:

Components	MTE	CT/H/P/V/Q	FC/MA/CS/DP	A	EE
Weightage (%)	15	15	15	5	50

MTE- Mid Term Exam; **CT**-Class Test; **H**-Home Assignment; **P**-Presentation; **V**-Viva; **Q**-Quiz; **FC**- Flip class; **MA**- Movie Analysis; **CS**- Case study; **DP**- Discursive paper; **A**-Attendance; **EE**-End Session Exam



AMITY SCHOOL OF FASHION TECHNOLOGY
(ASFT)

Course Name	Course Code	LTP	Credit	Semester
VISUAL RESEARCH & DEVELOPMENT	MFD 123	0:0:4	2	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To improve observation and visual expression and interpretation.
CLO 2	To develop the sense and language of color
CLO 3	To understand the application of color in various forms.

B. SYLLABUS

Module I: Effect of Color, Color Mixing, Texture & their influence on color perception.

Module II: Influence of fabric characteristics on the appearance of colors

Module III: Visual Research of natural objects and manmade objects

Module IV: Visual Research through Printing-

- Develop 5 different paper design for each of the following dyed and printed styles and show the relation of color and perception through dyeing and printing.
 - I. Tie and Dye with direct dyes for 5 samples (Size:10”X10”)
 - II. Direct style of printing with pigment dyes by stencil/screen method on cotton, silk and wool.

Module II: Visual Research Through weaving-

- Application of color, color mixing, texture, and its effects through weaving.
- Mixture of different dyed fibres/yarns and dyed yarn by twisting.
- Simple regular and irregular, counts-change, graduated pattern.
- Compound orders of coloring.

- Balance of contrast in pattern range designing.
- Color combinations in relation to weave.

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

Suggested Reference Reading:

- Z. Grosicki, Watson's Textile Design and Color, Newnes – Butler – Worths, London, 1975, 7th ed.
- Bride M. Whelan, Color Harmony 2, Rockport Publishers, USA, 1994.
- Colin Gale and Jasbir Kaur, The Textile Book, BERG Pub, Oxford, 1st edi, 2002 Paterson, Textile Colour Mixing, Abhishek Pub., Chandigarh, 2002



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
DESIGN TECHNIQUE WEAVING	MFD 124	0:0:6	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To understand the concept of weaving methods and techniques, mechanism, calculations and costing
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B. SYLLABUS

Module I:

- **Weaving Representations:** Weaving Plan Methods of Weave Representation, Repeat of Weave, Draft, Requirement to draw in weaving plan, Lifting Plan, Relation between weavedraft and lifting plan, Construction of weaving plan from a given weave, Construction of weave from given draft and lifting plan, Construction of draft from a given lifting plan and weave,
Basic Weave-
Plain, Twill,
Satin and
Sateen
Various types
of selvages.
- Advance Weave: Double Cloth(Plain, Twill, Diamond), Broken Twill, Extra Warp and Ex-tra Weft, Herringbone Twill, Bedford Cord Weave, Types of Crepe Weave
- Cost Estimation of Woven fabric pre Yard/Meter.
- Yarn Count Calculations indirect, direct and universal system.

- **Reed Count, Heald Count, Warp and Weft Calculations**

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- **Types of Loom** – (i) Vertical
(ii) Horizontal Loom
- **Introduction to Loom**
 - (A) Various parts of Loom
 - (B) Motions of Loom – Primary and Secondary Motions
- **Dobby** – Definition, Scope and Types of Dobby
- **Detailed study of Various Dobby**
Barrel Dobby, Lattice Handloom Liver Dobby, Center
close shed Dobby, Bottom closed shed Dobby, Side and
Cross Border Dobby, Hardekare Dobby.

Module III:

- **Card Punching Machine:**
Piano Card Punching Machine, Hand Block Card Punching
Machine, Electronic Card Punching Machine
- **Jacquard:** Definition, Scope, Types and Use of Jacquard
- **Types of Jacquard:**
 - Single
Lift
Single
Cylinder
Jacquard
Double
Lift
Single
Cylinder
Jacquard
Double
Lift
Double
Cylinder

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Jacquar
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Practical: Take 5 woven samples for analysis – Materials, Weave, Ends, Picks, Cover Factor, Warp and Weft Pattern, GSM, Yarn Count, Yarn Twist and other necessary parameters.

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

Suggested Reference Reading:

- *E.P.Gohl and Vilensky, Textile Science*
- *Carbman, Fibres to Fabrics*
- *Helen Thomos, Fibre to Fabrics Today*
- *Banerjee, Handloom Technology*



AMITY UNIVERSITY

RAJASTHAN

AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
INDIAN TEXTILE & SEMIOTICS	MFD 125	0:0:6	3	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To create awareness about the traditional Indian Textiles
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B. SYLLABUS

Module I:

Study of woven textiles according to color, texture, motifs and techniques(Jamdani, Baluchari,Paithani, Patola, Maheshwari, Chanderi, Banarasi)

Module II:

Study of dyed and printed textiles according to color, dyes, motifs and techniques(Sanganeeeri,Bagru, Kalamkaari, Ajrakh, Akola, Bandhani, Batik, Bagh)

Module III:

Study of Embroidered textiles according to color, motifs, stitches and texture(Kantha, Phulkari,Kasturi, Chamba-rumal, Kashmiri Kadhai, Sujuni Bihari, Mirror Work)

Practical:

1. Select any two techniques from above syllabus and explore it for furnishing and dress mate-rial range
2. Prepare sketch book with selected 50 traditional motifs

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

Suggested Reference Reading:

- I. Traditional Indian Costumes & Textiles – Parul Bhatnagar
- II. Indian Embroidery – Jamila Brijbhushan
- III. Indian Embroidery – Kamladevi Chattopadhyay
- IV. Fabric Art Heritage of India – Shukla Das
- V. Masterpieces of Indian Textiles – Rustam J. Mehta
- VI. Decorative Designs and Craftmanship of India – Enakshi Bhavnari
- VII. Sangneri Block Printing – Dr. Meenakshi Gupta
- VIII. Traditional Indian Textiles – Dr. Meenakshi Gupta and Dr. K.N. Srivastava



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
CREATIVE THINKING	MFD 121	0:0:2	1	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To understand design thinking and creativity in design
CLO 2	Understand the difference between 2Dimensional and 3Dimensional design and its properties.
CLO 3	To understand color and its application through elements and principles of design.

B. SYLLABUS

Module I: Prepare Paper Design using following forms ...

Elements of Design- Line, Form, Color, Texture, Tone, Space

Principles of Design- Unity, Harmony, Balance, Dominance, Rhythm, Proportion

Module II: Creative Design based on 2Dimensional giving emphasis on Color, Texture, Line and Shape.

Module III: Design based on 3Dimension

- Use of any flat surface (eg. Paper, Fabric etc.)
- Use of any semi solid material (eg.- Clay etc)
- Use of any solid material (eg.- Metal, Wood etc)

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

Suggested Reference Reading:

- Neli Thomas, Adair on creativity & innovation, Viva Books PLV. New Delhi[Indian Edition] – 2006
- George Gamez, Creativity [How to catch lightning in a bottle], Jaico Pub. House, Mumbai, 1997



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
MATERIAL &TECHNIQUE	MFD 126	0:0:4	2	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To study the properties of different types of soft and hard material and utilize according to their utilization.
CLO 2	To Understand the requirement of product design as per the consumer and market requirement.

B. SYLLABUS

Module I:

- To finalize domain interest.
- To gather all necessary information about the selected domain – Industry, Market, Existing Product/Service Category

Module II:

- To explore the areas of opportunities within the selected domain
- Finalize 4 product concepts based upon specific product/service areas

Module III:

- Finalize a design brief on 1 of chosen product in Project I
- To develop a concept based on the chosen design brief
- To develop a product range/prototype based upon the finalized concept

Evaluation:

Components	PR	Attendance	MTE	ESE
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Weight age (%)	30	05	15	50
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Course Name	Course Code	LTP	Credit	Semester
FRENCH - I	FLN 111	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify and express in French vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes.
CLO 3	Demonstrate comprehension of nuance between script and sound in French
CLO 4	Narrate clearly ideas, themes in simple standard French

B. SYLLABUS

Module 1: Pg: 9-24

A. Lexical:

- Transparent words
- Formulas of politeness: Hello, please, thankyou etc.
- salutations, excuses
- Numbers from 0 to 99.
- Adjectives of nationalities
- alphabets
- professions
- activities of the enterprises
- Personal details like phone number, address etc.

Module 2:

B. Grammar:

- Definite and indefinite articles
- Masculine, feminine and plural of nouns
- Subject pronouns : I, You, He, She etc. (je, tu, il, elle, vous etc.)
- verbs: To be, to have, to speak, to live, to call oneself, to do, to know, to sell
- masculine and feminine of the nationalities
- It's me and it's you
- This is/ It is + Profession
- Who is this? What is this?
- Complement of noun with « of » example : the house of Ram
- Interrogative word which/what "Quel"

EXAMINATION SCHEME

Total: 100 marks

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text &References:

Penfornis, J. (2007), Français.com (Débutant). Paris: CLE International

Français.com (Débutant), livre de professeur

<http://apprendre.tv5monde.com/>

Larousse Dictionnaire français-anglais anglais-français (French Dictionary), W.R.Goyal

Supplementary Materials are given in form of photocopies



Course Name	Course Code	LTP	Credit	Semester
GERMAN - I	FLG 111	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify and express in German vocabulary and grammar norms
CLO 2	Interpret different types of texts as well as cultural ideas and themes.
CLO 3	Demonstrate comprehension of nuance between script and sound in German
CLO 4	Narrate clearly ideas, themes in simple standard German

B. SYLLABUS

Module 1:

Vocabulary:

- Personal information like age, name etc.
- Alphabets
- Greetings: Good morning, good afternoon, good evening,
- parting good bye Etc.
- describing objects with articles in the classroom

Module 2:

Grammar:

- Personal Pronouns
- Use of verbs >to be< and >to have< in simple present tense
- Use of regular verbs like to live, to go, to learn etc.
- Using definite and indefinite article in German in nominative case
- Interrogative pronouns > who, what, where, where from, where to<
- talk about gender, numbers and articles.
- Singular and plural
- Basic Phonetics: Consonants and Vowels

EXAMINATION SCHEME

Total: 100 marks

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Prescribed Text-Book: First 10 Lessons from Deutsch als Fremdsprache -1A, IBH & Oxford, New Delhi, 1977

References: Studio D A1 by Hermann Funk, Christina Kuhn and Silke Demme, Cornelsen, 2013

Tangram A1 by Rosa Maria Dallapiazza, Eduard von Jan & Till Schoenherr, Max Hueber, 2007

Sprachtraining A1 by Rita Maria Niemann, Dong Ha Kim, Cornelsen, 2013

Dictionaries for reference: Studio D: Glossar A1 - Deutsch – Englisch, Cornelsen, 2013

<http://www.duden.de/woerterbuch>

Materials are given in form of photocopies if felt to be necessary



Course Name	Course Code	LTP	Credit	Semester
GERMAN - I	FLS 111	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	-Self introduction
CLO 2	Possessions.
CLO 3	Family/friend description with verbs like SER/ESTAR/TENER/HAY
CLO 4	Regular AR/ER/IR ending verbs conjugations
CLO 5	Interrogative words

B. SYLLABUS

Module 1:

Vocabulary: Passport Form, personal information, age, Interrogative pronouns, Alphabets, to be able to spell names, surnames, Good morning, good afternoon, Good bye Etc. different professions, countries, nationalities, languages.

Module 2:

Grammar:

Subject pronouns

Use of verbs SER/ESTAR/TENER in simple present tense

Use of regular AR /ER/IR ending verbs.

Llamarse y dedicarse

Simple Negativesentences

ExaminationScheme:

Total: 100 marks

ContinuousEvaluation (Total 50 Marks)					EndSemEvaluation (Total 50 Marks)
Quiz	MidTerm Test	Presentation	Viva Voce	Attendance	End-TermExam
10	15	10	10	5	50

Text &References:

Nuevo Español Sin Fronteras (ESF1) by Jesús Sánchez Lobato, Concha Moreno Garcia, Concha Moreno Garcia,

Isabel Santos Gargallo, Sociedad General Española De Librería, S.A 2005

Pasaporte Nivel (A1) byMatideCerralzoza Aragón, oscarCerralzoza Gilli, Begoña Llovet Barquero, EdelsaGroup didascalía, S.A. 2005

Dictionaries for reference: Collins, www.wordreferences.com.

Essential materials are given in the form of photocopies.



Course Name	Course Code	LTP	Credit	Semester
CHINESE - I	FLC 111	2:0:0	2	1

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Read, write and speak approx. 50 New Chinese words and understand basic grammar points.
CLO 2	Interpret words, phrases and sentences of day today conversation related to greeting farewell and personal information like name age, residence, family etc.
CLO 3	Write Chinese characters, simple sentence and a paragraph on Self Introduction.
CLO 4	Communicate with Chinese speaking people using words, phrases and sentences related to greeting, farewell and personal information like name age, residence family etc.

B. SYLLABUS

MODULE 1: COURSE CONTENT

1. Introduction to Chinese Language
2. Introduction to the Sound System, Initials and Finals
3. Table of sounds of Beijing Dialect
4. Tones
5. Writing System & Basic Strokes of Chinese Character
6. Rules of Stroke-Order of Chinese Character,
7. Expression of Greetings & Good wishes
8. Farewell
9. Asking & telling Personal Information : Name & Age
10. Personal Information : Residence
11. Personal Information : Family Members
12. Listening Skill & Practice
13. Conversation based on dialogues
14. China; an emerging world power (In English)

MODULE 2: VOCABULARY CONTENT

Vocabulary will have approx 70 Characters including 50 characters of HSK-I level.

1. Vocab related to greetings & farewell; 你, 好, 再见。。。
2. Vocab related to personal information; 名字, 年纪, 家, 住, 爸爸。。。

MODULE 3: GRAMMATICAL CONTENT

1. Introduction to the sound system, initials and finals, sound table & tones.
2. Basic strokes of Chinese Character & stroke- order.
3. Conjunction 和.
4. Word order in Chinese sentence.
5. Adjective Predicate sentence.
6. Sentence type (1).
7. Interrogative sentence with 吗.
8. Attributive & structural particle 的.

EVALUATION SCHEME

Total: 100 marks

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

Text Books & References

- Learn Chinese with me book-I (Major Text book), People's Education Press
- Chinese Reader (HSK Based) book-I (suggested reading)
- Elementary Chinese Reader Book-I (suggested reading)



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
TEXTILE PROCESSING	MFD 202	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To understand the application of preparatory of textile material before coloration.
CLO 2	To study various types of dyes and dyeing techniques and its advantages & disadvantages.

B. SYLLABUS

Module I: Preparation of textile for coloration

Preparation of textile for coloration (Singing, De-sizing, Scouring, Degumming); Yellowness re-moving process of textile (Principal and Process of Hydrogen Peroxide bleaching, Principal and Process of Hypochlorite bleaching);

Module II: Steps involved of any dyeing process and their significance

Steps involved of any dyeing process and their significance (The role of dye molecule, water & temperature, Affinity / Substantively, Concept of shade percentage, MLR (Material and Liquor ratio) & OWG (Weight of goods) & OVL (Volume of liquor))

Module III: Classifications of Synthetic dyes

Classifications of Synthetic dyes (Readymade Dyes: Water soluble and insoluble dyes, Devel-oped Dyes: Water soluble and insoluble dyes, Study the method of synthetic dyes);

Module IV: Introduction to printing

Methods of printing: Direct, Discharge and Resist printings.

Module V: Applications of Printing

Block, Screen printing (Flat screen, Rotary screen printing), Transfer (Dry heat and Wet heat transfer), Digital Printing}

Module VI Introduction to Fabric finishes

Introduction to Fabric finishes: Basic finishes that alter hand or texture; Felting, singeing, Surface finishes: Bleaching, de-lustering, flocking, burn out design, acid design, Functional finishes: Waterproof and water repellent finishes, shrinkage control, wrinkle-resistance, durable press and flame retardant finish.

Evaluation

Components	CT	AT T.	MT C	ES E
Weightage (%)	10	05	15	70

Suggested Readings:

1. Textile Science – Gohl & Vilensky
2. Chemistry of organic Textile Chemicals –V.A Shenai
3. Clarke. W. 1974. An Introduction to Textile Printing. London, Newness Butter Worth.
4. Smith, J.L. Textile Processing: Printing, Finishing, Dyeing.
5. H.Panda. Modern Technology of Textile: Dyes & Pigments



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
MATERIAL MANAGENT & SUSTAINABILITY	MFD 223	0:0:4	2	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Exploration of different materials.
CLO 2	Importance of Sustainability.
CLO 3	Understanding of the process of material management and inventory.
CLO 4	Demonstrate competency in the practical application of materials management principles in industrial inventory systems.

B. SYLLABUS

Module-1 INTRODUCTION

Descriptors/Topics Introduction to material management and productivity, functions of material management, organization structures in material management, role of material management techniques in improved material productivity

Module-2 MATERIALS PLANNING

Objectives, material requirement planning, manufacturing resource planning, JIT production planning, strategic material planning, material control: acceptance, sampling, inspection, make or buy decision, simple cost analysis, economic analysis, break even analysis, breakeven point theory, whether to add or drop a product line store management and warehousing, product explosion.

Module-3 INVENTORY MANAGEMENT

Descriptors/Topics Inventory v/s stores, types of inventory, inventory control, inventory build-up, EOQ, various inventory models, inventory models with quantity discount, exchange curve concept, coverage analysis, optimal stocking and issuing policies, inventory management of perishable commodities, ABC – VED analysis, design of inventory distribution systems, surplus management, information system for inventory management, case studies.

Module-4 PURCHASING MANAGEMENT

Importance of good purchasing system, organization of purchasing functions, purchase policy and procedures, responsibility and limitations, purchasing decisions, purchasing role in new product development, role of purchasing in cost reduction, negotiations and purchase, purchasing research: identification of right sources of supply, vendor rating, standardization, vendor certification plans, vendor and supply reliability, developing new source of supply.

Module-5 COST REDUCTION

Cost control v/s cost reduction, price analysis, material cost reduction techniques, variety reduction, cost 20% reduction and value improvement, techniques of cost control, standard costing, cost effectiveness, cost analysis for material management, material flow cost control.

Evaluation:

Components	CT	ATT.	MTC	ESE
Weightage (%)	30	05	15	50



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
COMPUTER AIDED DESIGN	MFD 224	0:0:4	2	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Use Coral Draw software and its tools
CLO 2	Design and illustrate in Coral Draw
CLO 3	Develop new motifs and prints.
CLO 4	Develop innovative product design

B. SYLLABUS

Module-I: Corel Draw-Tools and their application

(Hours: 6)

Introduction to Corel keys, RGB and CMYK color modes)-Page layout (size, orientation, page formatting, rulers, guidelines, nudge, table formatting, setting up grids etc.) Menu bar, property bar, standard bar options Importing bitmaps and tracing bitmap Exporting.

Module- II: Tool bar

(Hours: 6)

Pick tool (duplicate, rotate, skew, mirror), Shape tool (shaping objects, shaping text) ,Bezier tool, Eraser tool, knife tool, Crop tool, Zoom tool (zoom-in, zoom-out),Basic shapes tool and other drawing, tool(circle, semi-circle3/4th circle, rectangle, triangle, charts),Text tool (shaping text, lens),Table tool, Special effects (eye dropper ,blend, drop-shadow, envelope, contour, distort),Color eyedropper, Outline pen tool, Fill tool and Power clip objects.

Module-III: Design & Detailing

(Hours: 6)

Draw details/silhouettes and apply various textures; Draping and illustration

Module-IV: Designing & Illustration

(Hours: 10)

Create Texture, Motif, repeat & design and prepare their application according to fashion end use.

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

Textbooks:

Respective software manuals

Altman, R., Corel Draw X5, BPB Publications

Bangia, R. , Corel Draw, Khanna Book Publishing, Delhi, 2003

Phyllis, D, CorelDraw 11 for windows & Macintosh, Schwartz-Steve Publisher

Reference Books:

1 Respective software manuals – Latest Version (Adobe Photoshop, Corel Trace)



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
TEXTILE PROCESSING	MFD 202	3:0:0	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	To understand the application of preparatory of textile material before coloration.
CLO 2	To study various types of dyes and dyeing techniques and its advantages & disadvantages.

B. SYLLABUS

Module I: Preparation of textile for coloration

Preparation of textile for coloration (Singing, De-sizing, Scouring, Degumming); Yellowness re-moving process of textile (Principal and Process of Hydrogen Peroxide bleaching, Principal and Process of Hypochlorite bleaching);

Module II: Steps involved of any dyeing process and their significance

Steps involved of any dyeing process and their significance (The role of dye molecule, water & temperature, Affinity / Substantively, Concept of shade percentage, MLR (Material and Liquor ratio) & OWG (Weight of goods) & OVL (Volume of liquor))

Module III: Classifications of Synthetic dyes

Classifications of Synthetic dyes (Readymade Dyes: Water soluble and insoluble dyes, Devel-oped Dyes: Water soluble and insoluble dyes, Study the method of synthetic dyes);

Module IV: Introduction to printing

Methods of printing: Direct, Discharge and Resist printings.

Module V: Applications of Printing

Block, Screen printing (Flat screen, Rotary screen printing), Transfer (Dry heat and Wet heat transfer), Digital Printing}

Module VI Introduction to Fabric finishes

Introduction to Fabric finishes: Basic finishes that alter hand or texture; Felting, singeing, Surface finishes: Bleaching, de-lustering, flocking, burn out design, acid design, Functional finishes: Waterproof and water repellent finishes, shrinkage control, wrinkle-resistance, durable press and flame retardant finish.

Evaluation

Components	CT	AT T.	MT C	ES E
Weightage (%)	10	05	15	70

Suggested Readings:

1. Textile Science – Gohl & Vilensky
2. Chemistry of organic Textile Chemicals –V.A Shenai
3. Clarke. W. 1974. An Introduction to Textile Printing. London, Newness Butter Worth.
4. Smith, J.L. Textile Processing: Printing, Finishing, Dyeing.
5. H.Panda. Modern Technology of Textile: Dyes & Pigments



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AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
PATTERN MANIPULATION TECHNIQUES	MFD 231	0:0:6	3	2

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	About various terminologies and information in Pattern making
CLO 2	Understand the various process involved for Preparation of fabrics for clothing construction
CLO 3	Understand the various measurement points for garment manufacturing. How to measure and importance of critical measurement points.
CLO 4	Create Basic Block pattern, different types of Necklines and Yokes, different types of Plackets and Pockets for various garments.

B. SYLLABUS

Course Contents:

Module I: Basic Elements of Pattern Making

[10 Hours]Workr

Module II: Preparation & selection of fabrics for clothing construction

[10 Hours]

Shrinking, Straightening, Layout, Marking and Cutting of Patterns
Application of textiles – Apparel, Home, Industry. Fabric characteristics: Construction, Texture, Hand feel, weight, width. Trims(types and their application). Linings and interlinings(types and their application). Market survey of trimmings, lining and interlinings available in market.

Module III: Measurement Systems and Construction of Patterns

[52 Hours]

Measuring and recording the measurements, Fabric estimation for variousgarments.Drafting of adult's basic bodice block
Various kinds of Necklines and Yokes in various shapes.
Differences between the basic methods used for finishing necklines –

Shaped facing, Biasfacingand Piping,
Even hem placket, Wrap and projection placket, Continuous placket
Different types of pockets – their construction and size
specifications; Patch pocket, Flap pocket,Side seam pocket, Kurta
pockets and cross pockets.

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

Text Book

1. Helen J Armstrong, Pattern Making for Fashion Design, Prentice Hall
2. Harold Carr & Barbara Latham, The Technology of Clothing Manufacture, Oxford Pub.,USA,1994
3. Gerry Cooklin, Introduction to Clothing Manufacture, Blackwell Science, UK, 1991

References

1. Metric Pattern cutting & Grading by Winfred Aldrich.
2. Ruth E. Glock , Grace I. Kunz. Apparel Manufacturing



AMITY SCHOOL OF FASHION TECHNOLOGY
(ASFT)

Course Name	Course Code	LTP	Credit	Semester
Visual Merchandising	MFD 301	1:0:0	1	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding of various marketing strategies through visual representation.
CLO 2	Merchandise Mix and Assortment of goods.
CLO 3	Understanding store layouts, store atmospherics and store management
CLO 4	Concept of store design, visual display and infotainment at stores.
CLO 5	Various heads of space allocation, customer movement navigation, Planogramming at store.

B. SYLLABUS

Module 1:

- Introduction to Visual Merchandising: Introduction, Objectives, Concept of Visual Merchandising,
- Growth of Visual Merchandising, Scope of visual merchandising, Visual Merchandising as a Support for Positioning Strategy,
- Challenges in Visual Merchandising, Ways to overcome the visual merchandising challenges

Module 2:

Atmospherics in Merchandising, Colour scheme, Lighting, Sounds
The Merchandise Mix: Introduction, Objectives, Concept of Merchandise Mix, Merchandise line,

- The Assortment of Products, Assortment strategy, Merchandise Mix of Show Off.

Module 3:

- **Store Management in Merchandising: Introduction, Objectives, Types of Stores, Location of a Store, Types of retail locations, Planning a Store Layout, Various Types of Store Layouts, Grid layout, Forced-path layout, Free-form layout, Boutique layout, Combined layout, Store Space Allocation.**

Module 4:

Store Design and Display: Introduction, Objectives, Concept of Store Design and Display, Objectives of store design, Purpose and importance of display, Rules of display planning, Display Settings, Store Design, Exterior of a store, Interior of a store, Window displays, Merchandise Presentation Strategies,

Module 5:

- **Store Assortment: Heads of space allocation in a store, Managing Customer Navigation in a Store, General Rules of Customer Traffic in a Store, Elements of Image Mix, Merchandise, Fixtures, Sound/Music, Odour, Visuals, Employees, Elements that Levy Negative Impact on Shoppers, Change of Image, Security Issues Replenishes, Planogramming**

Evaluation:

Components	Assignment	Attendance	MTE	ESE
Weight age (%)	10	05	15	70

Suggested Reference Reading:

Text & References:

1. Martin M. Peglar and Anne Kong, Visual Merchandising and Display(7th ed), BloomsburyPublishing PLC:ISBN: 9781501315367
2. Tony Morgan, Visual Merchandising (2nd ed), Laurence King Publishing

3. Berman, Barry and Joel R. Evans (2009), Retail Management A Strategic Approach(11thed.),Upper Saddle River, NJ: Pearson Prentice Hall.
4. Dunne, Patrick, Robert F. Lusch, and James R. Carver (2011), Retailing (7th ed.),Mason,OH, South-Western.
5. Levy, Michael and Barton A. Weitz (2009), Retailing Management (7th ed.), Boston, MA:McGraw-Hill/Irwin.
6. Tepper, Bette K. (2008), Mathematics for Retail Buying (6th ed.), New York: Fairchild Publications..



AMITY SCHOOL OF FASHION TECHNOLOGY
(ASFT)

Course Name	Course Code	LTP	Credit	Semester
Visual Merchandising	MFD 321	0:0:2	2	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understanding of Store Planning and Layout
CLO 2	Understandings of Space Allocation and Managing Customer movement navigation
CLO 3	Understanding of in-store Atmospherics and Store Attributes.
CLO 4	Concept of store design, visual display and infotainment at stores.
CLO 5	VM Planogramming and prepare model store.

B. SYLLABUS

Module 1:

Store Management & Store Planning:

Types of Stores, Location of a Store, Types of retail locations,

Planning a Store Layout, Various Types of Store Layouts, Grid layout, Forced-

path layout, Free-form layout, Boutique layout, Combined layout,

Store Space Allocation, Heads of space allocation in a store,

Managing Customer Navigation in a Store, General Rules of Customer Traffic in a Store,

- The Loop for Guiding the Shoppers through a Store.

Module 2:

- Atmospherics in Merchandising, Colour scheme, Lighting, Fixtures, Sound/

Music, Odour, Visuals, Employees, Elements that Levy

Negative Impact on Shoppers, Change of Image, Security

Issues

- Store Design and Display: Concept of Store Design and Display, Objectives of store design, Purpose and importance of display, Rules of display planning, Dis-play Settings

Module 3:

- Store Design and Display:
 1. Concept of Store Design and Display of Model Store,
 2. Store Design- Exterior & Interior of a store, Window displays, Merchan- dise Presentation Strategies, Colour blocking, Other techniques of mer- chandise placement, Physical materials used to support the display, Compo- nents of display,Some Useful Display Fixtures, Shelves. Gondolas, Round racks, Four ways, Saccades and Fixation, Replenishes.

Evaluation:

Components	PR	Attendance	MTE	ESE
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Weight age (%)	30	05	15	50
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Suggested Reference Reading:

Text & References:

1. Martin M. Peglar and Anne Kong, Visual Merchandising and Display(7th ed), BloomsburyPublishing PLC:ISBN: 9781501315367

2. Tony Morgan, Visual Merchandising (2nd ed), Laurence King Publishing
3. Berman, Barry and Joel R. Evans (2009), Retail Management A Strategic Approach(11thed.),Upper Saddle River, NJ: Pearson Prentice Hall.
4. Dunne, Patrick, Robert F. Lusch, and James R. Carver (2011), Retailing (7th ed.),Mason,OH, South-Western.
5. Levy, Michael and Barton A. Weitz (2009), Retailing Management (7th ed.), Boston, MA:McGraw-Hill/Irwin.

Tepper, Bette K. (2008), Mathematics for Retail Buying (6th ed.), New York: Fairchild Publications.



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
Research Documentation/Dissertation	MFD 323	0:0:6	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Writing Dissertation Proposal and selection of Topic/Researchable areas for study
CLO 2	Research data collection and analysis of data
CLO 3	Significance of the Study, Result and Discussion of the Findings

B. SYLLABUS

Module 1:

- Writing Dissertation Proposal and selection of Topic/Researchable areas for study
- Problem Statement and formation of Hypotheses or Questions
- Review of the Literature for the

Study Model 2:

- Research Design
- Sources of Data
- Sampling and Population and/or relevant qualitative research aspects of the study
- Instrumentation and

Testing Module 3:

- Analysis of Data and Treatment of Data
- Significance of the Study
- Result and Discussion of the Findings
- Conclusions
- Limitations of the Study
- Recommendations for Further Research and citations

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

keep the deadlines sacrosanct. The project will lead to the development of the designer's skills and either case a guide will be there to supervise the project. A design project can be given as a classroom isfy a set design brief. The core idea behind a design project is to develop professional skills of the



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RAJASTHAN

AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
Design Project for Apparel	MFD 350	0:0:6	3	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Develop advanced skills and exploration in processes and materials
CLO 2	Design project is to develop professional skills
CLO 3	Designed product development and present

B. SYLLABUS

Module I: [15 Hour]

students and encourage independent thinking.

Module II: : [15 Hour]

forecasting. project, a group project or individual projects to students.

Module III: : [64 Hour]

till the end which will develop a sense of ownership and commitment. The

students will also learn toknowledge through a process of 'hands on-minds

on'.

A range (Minimum 3 articles) has to be developed.

Evaluation:

The students will be the core custodians of the project and the onus will be on them from beginning till the end which will develop a sense

of ownership and commitment. The students will also learn to satisfy a set design brief. The core idea behind a design project is to develop professional skills of the

Components	PR	Attendan ce	MT E	ES E
Weight age (%)	30	05	15	50



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
Design Project for Home Furnishing	MFD 351	0:0:4	2	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Develop advanced skills and exploration in processes and materials
CLO 2	Design project is to develop professional skills
CLO 3	Designed product development and present

B. SYLLABUS

Module I: [15 Hour]

students and encourage independent thinking.

Module II: : [15 Hour]

casting.

either case a guide will be there to supervise the project. A design project can be given as a classroom project, a group project or individual projects to students.

Module III: : [64 Hour]

keep the deadlines sacrosanct. The project will lead to the development of the designer's skills and knowledge through a process of 'hands on-minds on'.

A range (Minimum 3 articles) has to be developed.

Evaluation:

Components	PR	Attendan ce	MT E	ES E
Weight age (%)	30	05	15	50



Course Name	Course Code	LTP	Credit	Semester
FRENCH - III	FLN311	2:0:0	2	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Identify and express in French vocabulary and grammar norms.
CLO 2	Interpret different types of texts as well as cultural ideas and themes.
CLO 3	Demonstrate comprehension of nuance between script and sound in French
CLO 4	Narrate clearly ideas, themes in simple standard French

B. SYLLABUS

Module 1: pp. 76 – 88 Module é 6

Module C2 pp. 89 to103 Module 7

Contenu lexical: Module 6: se faire plaisir

1. acheter : exprimer ses choix, décrire un objet (forme, dimension, poids et matières) payer
2. parler de la nourriture, deux façons d'exprimer la quantité, commander un repas au restaurant
3. parler des différentes occasions de faire la fête

Module 7: Cultiver des relations

1. maîtriser les actes de la communication sociale courante (Salutations, présentations, invitations, remerciements)
2. annoncer un événement, exprimer un souhait, remercier, s'excuser par écrit
3. caractériser une personne (aspect physique et caractère)

Contenu grammatical:

1. accord des adjectifs qualificatifs
2. articles partitifs
3. Négations avec de, ne...rien/personne/plus
4. Questions avec combien, quel...
5. expressions de la quantité
6. ne...plus/toujours - encore
7. pronoms compléments directs et indirects
8. accord du participe passé (auxiliaire « avoir ») avec l'objet direct
9. Impératif avec un pronom complément direct ou indirect
10. construction avec « que » - Je crois que/ Je pense que/ Je sais que

EXAMINATION SCHEME

Total: 100 marks

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

- le livre à suivre : Campus: Tome 1

Course Name	Course Code	LTP	Credit	Semester
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— R A J A S T H A N —



GERMAN - III	FLG311	2:0:0	2	3
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A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Students will be able to ask and tell time.
CLO 2	Students will be able to frame sentences using Separable verb.
CLO 3	Student will be able to write and speak sentences using modal verb
CLO 4	Students will be able to frame sentences and speak using was/were/had.

B. SYLLABUS

Module I: Modal verbs

Modal verbs with conjugations and usage
Imparting the finer nuances of the language

Module II: Information about Germany (ongoing)

Information about Germany in the form of presentations or "Referat" – neighbors, states and capitals, important cities and towns and characteristic features of the same, and also a few other topics related to Germany.

Module III: Dative case

Dative case, comparison with accusative case
Dative case with the relevant articles
Introduction to 3 different kinds of sentences – nominative, accusative and dative

Module IV: Dative personal pronouns

Nominative, accusative and dative pronouns in comparison

Module V: Dative prepositions

Dative preposition with their usage both theoretical and figurative use

Module VI: Dialogues

In the Restaurant,
At the Tourist Information Office,
A telephone conversation

Module VII: Directions

Names of the directions
Asking and telling the directions with the help of a roadmap

Module VIII: Conjunctions

To assimilate the knowledge of the conjunctions learnt indirectly so far

EXAMINATION SCHEME

Total: 100 marks

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

C - Project + Presentation I - Interaction/Conversation Practice

Text & References:

- Wolfgang Hieber, Lernziel Deutsch
- Hans-Heinrich Wangler, Sprachkurs Deutsch
- Schulz Griesbach, Deutsche Sprachlehre für Ausländer
- P.L. Aneja, Deutsch Interessant- 1, 2 & 3
- Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2
- Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs



Course Name	Course Code	LTP	Credit	Semester
SPANISH - III	FLS311	2:0:0	2	3

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Introduction of stem changing irregular verbs and Introduction of prepositions (Cerca de/ lejos de/ encima de etc.)
CLO 2	Present continuous tense (Estar+ gerundio) And Introduction of third person verbs Gustar/Parecer/Encantar/ Doler (to like/ to seem like/ to enchant/ to hurt.) etc
CLO 3	Interrogatives – How much/ How many
CLO 4	Introduction of irregular verbs. And Immediate future plans (Ir a + verbo)

B. SYLLABUS

Module I

Revision of earlier semester modules
Set expressions (idiomatic expressions) with the verb *Tener, Poner, Ir...*
Weather

Module II

Introduction to *Gustar...* and all its forms. Revision of *Gustar* and usage of it

Module III

Translation of Spanish-English; English-Spanish. Practice sentences.
How to ask for directions (using *estar*)
Introduction to IR + A + INFINITIVE FORM OF A VERB

Module IV

Simple conversation with help of texts and vocabulary
En el restaurante
En el instituto
En el aeropuerto

Module V

Reflexives

EXAMINATION SCHEME

Total: 100 marks

Continuous Evaluation (Total 50 Marks)					End Sem Evaluation (Total 50 Marks)
Quiz	Mid Term Test	Presentation	Viva Voce	Attendance	End-Term Exam
10	15	10	10	5	50

C - Project + Presentation

I - Interaction/Conversation Practice

Text & References:

- Español, EnDirecto I A
- Español Sin Fronteras -Nivel Elemen



AMITY SCHOOL OF FASHION TECHNOLOGY
(ASFT)

Course Name	Course Code	LTP	Credit	Semester
Fashion Portfolio & Design Collection	MFD 422	0:0:6	3	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand how to present their core areas
CLO 2	Use of design software
CLO 3	How to express yourself through design

B. SYLLABUS

Course Objective

To develop an individual design portfolio highlighting strengths in design and related field

Course Content:

Module I Design Development

Research and exploration to develop theme for their final collection.

It includes development allboards and design collection

Module II Digital portfolio

Developing digital portfolio of final collection using design

software .Module III Portfolio presentation and photo gallery

Making power point presentation which includes concept note with

all boards and design range. Photo shoot of the garments of their

final graduation design collection and developing photo gal-lery

Evaluation:

Components	PR	Attendan ce	MT E	ES E
Weight age (%)	30	05	15	50

Suggested Reference Reading:

- Drake/ Spooone/Greenwald —Retail fashion Promotion and Advertising||
- Gini Stephens Frings — Fashion- from concept to consumer|| Pearson Education
- Jarnow, J and KG Dickenson, —Inside the Fashion Business|| Prentice Hall, 1997
- Jerligan Easterling —Fashion Merchandising And Marketing´ Pearson Education
- Polly Guerin — Creative fashion Presentations|| Fairchild Publications



AMITY SCHOOL OF FASHION TECHNOLOGY (ASFT)

Course Name	Course Code	LTP	Credit	Semester
Internship with Dissertation	MFD 423	0:0:24	12	4

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Application of knowledge learned
CLO 2	Acquire and develop practical skills
CLO 3	Strengthen work values
CLO 4	Gain interpersonal skills
CLO 5	Get an understanding of how the market functions

B. SYLLABUS

The report will be evaluated by an external examiner, an internal examiner the marks of the continuous assessment obtained from the industry will be compiled based on various interim reports of mid-term/end of term evaluation received from the host organization and timely submission of report.

The report will submission following format.

- Introduction
- Aim
- Objectives
- Hypothesis
- Procedure
- Design
- Pictures of crafts

- Questionnaire for survey/ information collection.
- Results and discussion
- Summary and conclusion
- Bibliography

Evaluation:

Components	PR	Attendance	MTE	ESE
Weight age (%)	30	05	15	50

SEMESTER I

4851. STILL LIFE – I

Course Code BFA 101

L-1/T-1/P-2

Credits- 03

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Students shall develop an understanding of basic drawing and sketching.
CLO 2	Students will develop the ability to see, analyze, and understand its philosophies.
CLO 3	Students will develop the ability to receive critiques of their artworks from instructors & peers. Students will develop their own voices as an artist.
CLO 4	Students shall develop the essential stagecraft and exhibition skills to express and promote their art.

Module – I

Use of geometry in Art

Its different usages and purposes in art.

Module – II

Exercise of different types of lines

Different types of lines,

their nature, emotions and effects.

Creation of art work using different types of lines.

Introduction to Shading techniques

Hatching

Cross hatching

Circulism

Contouring

Module – III

Sketching

Rapid sketches

Role of proportion in drawing

Drawing intuitively

Object Study

Drawing from still objects and from geometric shapes in different light conditions

Concept of materials and shapes in the study of still objects

Module – IV

Drawing of Foliage

Drawing of foliage (plants)

Study of different parts of trees and plants using lines

Creating volume through lines

Use of pressure to create the required effect of light and shade

Module – V

Orthographic projection in Art

Meaning of orthographic projection

Multi view orthographic projection in Art work

Module – VI

Understanding the structure of human body

Ideal proportions of human body

Examples of drawings of great masters

Examination Scheme:

Components	Art Assignment	Mid Term	PPT	Final Artwork Assignment	Attendance	EE
Weightage (%)	10	15	10	10	5	50

Text & References:

Text:

- Anatomy & Drawing, Victor Perard, Pitman Publishing, New York.

References:

- Fundamentals of fine Art :S.K. Sharma, R.A. Agarwal, Loyal Book Depot Meerut, 2011.
- Drawing Hands, Carl Sheek, Grosset and Dunlop, New York.
- The Art of Drawing Heads and Hands, Walter Brooks, M. Grumbacher, New York
- Geometrical Drawings, C. L. Martin, Macmillan Co, London.
- Artists Technique, Dr. Kurt Herbert

4866. STILL LIFE– II

Course Code

BFA 201

L-1/T-1/P-2

Credits- 03

A. COURSE LEARNING OUTCOMES (CLO)

CLO 1	Students will know the potential of observation and study of different objects in different atmospheres.
CLO 2	Students will develop an approach towards composition development.
CLO 3	The learning outcome shall result in students understanding how still life is the most useful technique in learning and observation while art-making.

Course Objective:

Still Life is the basic element of learning art. Object study exercises are to acquire accurate sense of observation and skills to present representational art.

It is required to understand and use of geometrical instruments. Simple exercise in angles and geometrical figures i.e. triangle, quadrilaterals, parallelograms, squares, rectangles, rhombus, polygons, circles etc.

Module – I

Perspective Study

Types of perspective

Role of perspective in drawing

Module - II

Sketching

Rapid sketches

Role of perspective in drawing

Drawing intuitively

Module – III

Object Study

Drawing a still life using different objects of different sizes and shapes

Concept of different angles in the study of still objects

Module – IV

Drawing from Nature

Outdoor sketching in nature

Drawing from any place like streets, markets, stations, museums, zoo etc

Students shall be exposed to such drawings made by master artists of different time

Module - V

Drawing human figure sketches

Anatomy and structure.

Examination Scheme:

Components	Art Assignment	Mid Term	PPT	Final Artwork Assignment	Attendance	EE
Weightage (%)	10	15	10	10	5	50

Text & References:**Text:**

- **Anatomy & Drawing, Victor Perard, Pitman Publishing, New York.**

References:

- Figure Drawing, Victor Perard, Grosset and Dunlop, New York.
- Drawing Hands, Carl Sheek, Grosset and Dunlop, New York.
- The Art of Drawing Heads and Hands, Walter Brooks, M. Grumbacher, New York.

4867. FUNDAMENTALS OF FINE ARTS – II

Course Code

BFA 202

L-1/T-0/P-2

Credits- 02

COURSE LEARNING OUTCOMES (CLO)

CLO 1	Students shall develop a high level of fluency with visual theories.
CLO 2	Students shall develop an understanding and deep knowledge of the fundamentals of Art [Elements and Principles of Design].
CLO 3	Students shall develop the ability to see, analyze, and compare historical and contemporary art techniques and art movements.
CLO 4	Students will develop the ability to receive critiques of their artworks from instructors & peers. Students will develop their own voices as an artist. They shall be able to interpret and engage with existing visual cultures and media.

Module I

Theme and purpose of art -

Art as an essential part of the real world.

Role of art in the society.

Inter relation of Art with Religion.

Relationship between art and nature.

Role of Imagination and fantasy as an important phenomenon for the creation of art

Module II

2D and 3Dimensional Arts

Pictorial composition

Creative Process

Observation

Perception

Imagination

Creative Expression

Module III

Sadhang “The six canons of Painting”

Module IV

Tribal and folk arts – Origin, Definition & types

Rangoli, Mandana, Tanjore painting, Rajasthani Miniature, Alpana, Sanjhiapna, Madhubani,

Warli, Pattachitra, Leela gudwana

Module V

Analysis of a work of Art and appreciation of art based on principle of criticism and philosophy.

Examination Scheme:

Components	Art Assignment	Mid Term	PPT	Final Artwork Assignment	Attendance	EE
Weightage (%)	10	15	10	10	5	50

4868. Graphic Art [Design & 3D Design] – II

Course Code

BFA 203

L-1/T-1/P-2

Credits- 03

COURSE LEARNING OUTCOMES (CLO)

CLO 1	Understand the importance of Advertising principles.
CLO 2	Evaluate the role, importance and use of various aspects of advertising planning and budgeting
CLO 3	Use the features and concept of copywriting.
CLO 4	Understand the relevance of Media plan.

Course Objective:

Learning Design is to understand the basic visual language and various methods of form synthesis. It is to develop intellectual and imaginative abilities in creative thinking. It is to provide technical know-how about the principles of design, distribution of space, proportion, behavior of force and energy contained in lines, form and colour. Organized design exercises in different media offer a wide range of opportunity to develop systematic and intuitive approaches to creative work.

Course Contents:

Module I

Introduction to Principle of Design; Creating conceptual design.

- Emphasizing the importance of balance, proportion/scale in creating a design.
- Intro to useful use of various contrast in design.
- Intro to use of harmony in design.
- Intro to use of rhythm/ movement in design.
- Importance of emphasis and pattern.
- Project on experimental design in creative forms.

Module II

Design based on study of form objects using principles of design

- Overlapping of designs for creating interesting forms.
- Patterned design with repetition of pattern or object.
- Contrast in design to show emphasis.

Module III

Introduction of tin shade in design and illusion

- Use of tin shade in design
- Repetition of elements to create illusion in design.
- Lines and shape in perspective illusion.

Module IV

Understanding the subjective and objective value of design

- Transformation of simple shapes into well balanced design with right use of colour.

- Use of alphabets in design to compose it in one unit.
- Visualize complex forms into simple, primitive and basic forms.

Evaluation Methodology

- Individual’s daily performance
- Project Review: Mid Semester
- Project Submission & Viva: End of the Semester

Examination Scheme:

Components	Art Assignment	Mid Term	PPT	Final Artwork Assignment	Attendance	EE
Weightage (%)	10	15	10	10	5	50

Text & References:

- A history of Graphic Design, Philip B. Meggs, Viking, London.
- The Designer’s Handbook, Stan Smith & H. F. ten Holts.
- The Creative Connection, Winteb/Milton
- Innovation, Industrial Designers Society of America
- Color Harmony for the web. Cailin Boyle, Rock Port, 2001

