1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

S.N.	Name of Institute/School	Programme Name	Semester	Course Code	Course Name	Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	Description of the Course
1	ASAP	B.Arch	I	EVS 142	Environmental studies- I	Environment	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.
2	ASAP	B.Arch	II	EVS242	Environmental studies-II	Environment	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
3	ASAP	B.Arch	I	BSU 143	Behavioural science - I	Human Values	Understanding self & process of self - exploration of Learning strategies for development of a healthy self - esteem and Importance of attitudes and its effective on personality and Building Emotional

							Competency
4	ASAP	B.Arch	II	BSU 243	Behavioural science - II	Human Values	The course enables students to Understand the importance of individual differences. Better understanding of self in relation to society and nation. Facilitation for a meaningful existence and adjustment in society. Inculcating patriotism and national pride
5	ASAP	B.Arch	III	BSU 343	Behavioural science - IV	Human Values	Enhancing personal effectiveness and performance through effective interpersonal communication and their conflict management and negotiation skills
6	ASAP	B.Arch	IV	BSU 443	Behavioural science - IV	Human Values	This course aims at imparting an understanding of Values, Ethics & Morality among students for making a balanced choice between personal & professional development.
7	ASAP	B.Arch	IV	BAR407	Architectural climatology	Sustainability	To expose the students to climatic design principles, their influence on building design and energy conservation through passive techniques.
8	ASAP	B.Arch	V	BSU 543	Behavioural science - V	Human Values	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
9	ASAP	B.Arch	VI	BSU 643	Behavioural science - VI	Human Values	To develop an understanding the concept of stress its causes, symptoms and consequences. To develop an understanding the consequences of the stress on one's wellness, health, and work performance
1	ASAP	B.Arch	VI	BAR608	Site planning & landscape design	Environment / Sustainability	The course is to make the students understand the natural and man-made components that generate the decisions in the planning of any site, and the role of landscape architecture for the judicious co-existence of man with nature and its patterns and systems.
1	ASAP	B.Arch	VII	BAR703	Professional practice & valuation	Professional Ethics	To acquaint the students with professional ethics, responsibility, scale of charges and Architect's model code of conduct in Architectural practice.
1	ASAP	B.Arch	VII	BAR 704	Green Buildings	Sustainability	To familiarize students with principles, techniques and guidelines for planning and design of energy conserving architecture

SAP	B.Arch	VII	BAR 708	Road safety and civic sense	Human Values	To introduce the concepts, principles. Tools and aids of road safety and civic sense to the students of B. Arch. To acquaint them with the design and safety standards for roads. Also inculcate the practice of sate road behavior and civic sense among them.
1 ASAP	B.Arch	IX	BAR 905	Barrier free architecture	Human Values	The subject looks at barrier free design principles and concepts of universal design. Barrier free design principles in urban design Provides an idea about barrier free construction principles in buildings
1 ASAP	B.Arch	X	BAR 1004	Alternate source of energy and Built Environment	Sustainability	Understanding role of alternative sources of energy in built environment and the methodology to be followed and application while using other sources of energy in a building.
1 ASAP	B.ID	I	EVS 142	Environmental studies- I	Environment	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.

SAP		B.ID	II	EVS242	Environmental studies-II	Environment	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
1	ASAP	B.ID	I	BSU 143	Behavioural science - I	Human Values	Understanding self & process of self - exploration Learning strategies for development of a healthy self-esteem Importance of attitudes and its effective on personality Building Emotional Competency
1	ASAP	B.ID	II	BSU 243	Behavioural science - II	Human Values	The course enables students to Understand the importance of individual differences. Better understanding of self in relation to society and nation. Facilitation for a meaningful existence and adjustment in society. Inculcating patriotism and national pride
2	ASAP	B.ID	III	BSU 343	Behavioural science - IV	Human Values	Enhancing personal effectiveness and performance through effective interpersonal communication Enhancing their conflict management and negotiation skills

SAP	B.ID	IV	BSU 443	Behavioural science - IV	Human Values	This course aims at imparting an understanding of Values, Ethics & Morality among students for making a balanced choice between personal & professional development.
2 ASAP	B.ID	IV	BID409	Interior Landscape Design	Environment	To develop a conceptual understanding of landscaping design parameters for various built forms.To develop skills in integrating landscape design with built environments.
2 ASAP	B.ID	V	BSU 543	Behavioural science - V	Human Values	To develop an understanding the concept of stress its causes, symptoms and consequences and to develop an understanding the consequences of the stress on one's wellness, health, and work performance.
2 ASAP	B.ID	VI	BSU 643	Behavioural science - VI	Human Values	To develop an understanding the concept of stress its causes, symptoms and consequences.To develop an understanding the consequences of the stress on one's wellness, health, and work performance
2 ASAP	B.ID	VIII	BID 802	Professional Practice	Professional Ethics	Role of an interior designer in society, Scale of charges conduct in the practice. Requirements of interior design

							competitions and appointment of interior Designer as consultant
2	ASAP	M.Plan	I	BSP143	BEHAVIOURAL SCIENCE - I	Human Values	This course aims at imparting an understanding of: Self and the process of self-exploration. Learning strategies for development of a healthy self esteem Importance of attitudes and their effect on work behavior. Effective management of emotions and building interpersonal competence.
2	ASAP	M.Plan	I	MURP 105	Housing and Environmental Planning	Environment	Housing and environment introduce the basics of both in relation to each other. Housing: The objective of this course is to familiarize students with a wide spectrum of aspects related to housing viz., housing scenario, housing needs, housing design, building legislations. The course aimed at providing basic knowledge of issues of urban development relevant to housing planning. Environment: The objective of this course is to initiate the students to a

							discreet understanding of the environment and the interactions and inter-relationships of all living organisms with the physical surroundings. All social, cultural and technological activities being carried by human beings have profound influence on the environment.
2	ASAP	M.Plan	II	BSP243	BEHAVIOURAL SCIENCE - II	Human Values	This course aims at imparting an understanding of: To develop an understanding the concept of stress its causes, symptoms and consequences. To develop an understanding the consequences of the stress on one's wellness, health, and work performance. Enhancing personal effectiveness and performance through effective interpersonal communication Enhancing their conflict management and negotiation skills
2	ASAP	M.Plan	III	MURP 303	Urban Design and Landscape	Environment	The outcome of this course is to acquaint student with the role of urban design and landscape planning in Urban and Regional Planning and equip them with

2.3.1

						appropriate methods and techniques.
SAP	M.Plan	III	MURP310	Sustainable Planning Practices	Sustainability	The outcome of this course is to familiarize students with the concept of sustainable development and develop skills to understand emerging aspects of sustainable planning practices.

ENVIRONMENTAL STUDIES-I

Course Code: EVS – 142

Credit Units: 02
Total Hours: 20

Course Objectives

The term environment is used to describe, in the aggregate, all the external forces, influences and conditions, which affect the life, nature, behavior and the growth, development and maturity of living organisms. At present a great number of environmental issues, have grown and complexity day by day, threatening the survival of mankind on earth. Environment study is quite essential in all streams of studies including 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.

Course Contents:

Module I: The multidisciplinary nature of environmental studies (6 Hrs)
Definition, scope and importance
Need for public awareness

Module II: Natural Resources (8 Hrs)
Renewable and non-renewable resources:
Natural resources and associated problems

Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.

Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.

Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.

Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies.

Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
Role of an individual in conservation of natural resources.
Equitable use of resources for sustainable lifestyles.

Module III: Ecosystems (3 Hrs)
Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession
Food chains, food webs and ecological pyramids
Introduction, types, characteristic features, structure and function of the following ecosystem:

a. Forest ecosystem
b. Grassland ecosystem
c. Desert ecosystem
d. Aquatic ecosystems (ponds, streams, lakes, rivers, ocean estuaries)

Module IV: Biodiversity and its conservation (3 Hrs)
Introduction – Definition: genetic, species and ecosystem diversity
Biogeographical classification of India
Value of biodiversity: consumptive use, productive use, social, ethical aesthetic and option values
Biodiversity at global, national and local levels

India as a mega-diversity nation, Hot-spots of biodiversity

Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts, Endangered and endemic species of India
Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity

Course Outcome

Upon course completion, students will be able to understand:

- The multidisciplinary nature of environmental studies, including its definition, scope and need for public awareness.
- Our natural resources including renewable and non-renewable resources comprising of forest, water, mineral, food, energy and land resources.
- The ecosystem, their structure and function, energy flow, bio-geochemical cycles, community ecology, ecological succession, ecological pyramids, forest, grassland, aquatic and tundra ecosystem.
- Biodiversity and its conservation.
- Ecosystem diversity, species diversity and genetic diversity.
- Biological classification of India.
- Value of biodiversity.
- Biodiversity at global national and local level.
- Conservation of biodiversity.
- Characteristic of ideal ecosystem.
- Study of an artificial ecosystem.

Examination Scheme:

Components	CT	HA	S/V/Q	A	ESE
Weightage (%)	15	5	5	5	70

Text & References:

- Chauhan B. S. 2009: Environmental Studies, University Science Press New Delhi.
- Dhameja S.K., 2010; Environmental Studies, Katson Publisher, New Delhi.
- Smriti Srivastava, 2011: Energy Environment Ecology and Society, Katson Publisher, New Delhi.
- Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
- Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad 380 013, India, Email:mapin@icenet.net (R)
- Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
- Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopaedia, Jaico Publ. House, Mumbai, 1196p
- De A.K., Environmental Chemistry, Wiley Eastern Ltd. Down to Earth, Centre for Science and Environment (R)
- Gleick, H.P. 1993. Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p
- Hawkins R.E., Encyclopaedia of Indian Natural History, Bombay Natural History Society, Bombay (R) Heywood, V.H & Waston, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140p.
- Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p. McKinney, M.L. & School, R.M. 1996. Environmental Science Systems & Solutions, Web enhanced edition. 639p.
- Mhaskar A.K., Matter Hazardous, Techno-Science Publication (TB) Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. (TB)
- Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574p
- Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut
- Survey of the Environment, The Hindu (M)
- Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science
- Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards, Vol I and II, Enviro Media (R)
- Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (TB) Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p

ENVIRONMENTAL STUDIES-II

Course Code: EVS– 242

Credit Units: 02
Total Hours: 20

Course Objectives

- To understand various types of environmental pollution.
- To educate masses, in general and students, about the issues related to degradation of environment and social issues related to environment.
- To understand sustainable development.
- To understand environmental assets, local flora and fauna through field surveys.

Course Contents:

Module I: Environmental Pollution (7 Hrs)

Definition, causes, effects and control measures of: Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear pollution. Solid waste management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Pollution case studies. Disaster management: floods, earthquake, cyclone and landslides.

Module II: Social Issues and the Environment (7 Hrs)

From unsustainable to sustainable development, Urban problems and related to energy. Water conservation, rain water harvesting, watershed management. Resettlement and rehabilitation of people; its problems and concerns Case studies. Environmental ethics: Issues and possible solutions Climate change, Global warming, Acid rain, Ozone layer depletion, Nuclear Accidents and Holocaust case studies. Fireworks/Crackers – Introduction, ill effects on environment and humans.
Wasteland reclamation, Consumerism and waste products, Environmental Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act. issues involved in enforcement of environmental legislation Public awareness

Module III: Human Population and the Environment (4 Hrs)

Population growth, variation among nations. Population explosion – Family Welfare Programmes Environment and human health. Human Rights. Value Education. HIV / AIDS. Women and Child Welfare. Role of Information Technology in Environment and Human Health.
Case Studies

Module IV: Field Work (2 Hrs)

Visit to a local area to document environmental assets-river / forest/ grassland/ hill/ mountain. Visit to a local polluted site – Urban / Rural / Industrial / Agricultural. Study of common plants, insects, birds. Study of simple ecosystems-pond, river, hill slopes, etc.

Course Outcome

Upon course completion, students will be able to:

- Explain various types of environmental pollutions.
- Understand role of individual in abatement of environmental pollution.
- Explain methods to mitigate disasters.
- Learn various environmental protection laws.
- Learn role of IT in environment and human health.

Examination Scheme:

Components	CT	HA	S/V/Q	A	ESE
Weightage (%)	15	5	5	5	70

Text & References:

- Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
- Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad 380 013, India, Email:mapin@icenet.net (R)
- Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
- Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopaedia, Jaico Publ. House, Mumbai, 1196p
- De A.K., Environmental Chemistry, Wiley Eastern Ltd. Down to Earth, Centre for Science and Environment (R)
- Gleick, H.P. 1993. Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p
- Hawkins R.E., Encyclopaedia of Indian Natural History, Bombay Natural History Society, Bombay (R) Heywood, V.H & Watson, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140p.
- Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p. McKinney, M.L. & School, R.M. 1996. Environmental Science Systems & Solutions, Web enhanced edition. 639p.
- Mhaskar A.K., Matter Hazardous, Techno-Science Publication (TB) Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. (TB)
- Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574p
- Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut
- Survey of the Environment, The Hindu (M)
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- Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards, Vol I and II, Enviro Media (R)
- Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (TB) Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p

BEHAVIOURAL SCIENCE - IV

VALUE & ETHICS FOR PERSONAL & PROFESSIONAL DEVELOPMENT

Credit

Course Code:BSU 443

Units: 01

Course Objective:

This course aims at imparting an understanding of Values, Ethics & Morality among students for making a balanced choice between personal & professional development.

Course Contents:

(2 Hours)

Module I: Introduction to Values & Ethics

Meaning & its type

Relationship between Values and Ethics

Its implication in one's life

(2Hours)

Module II: Values Clarification & Acceptance

Core Values-Respect, Responsibility, Integrity, Resilience, Care, & Harmony

Its process-Self Exploration

Nurturing Good values

(2 Hours)

Module III: Morality

Difference between morality, ethics &values

Significance of moral values

(2 Hours)

Module IV: Ethical Practice

Ethical Decision making

Challenges in its implementation

Prevention of Corruption &Crime

(2 Hours)

Module V: Personal & Professional Values

Personal values-Empathy, honesty, courage, commitment

Professional Values-Work ethics, respect for others

Its role in personality development

Character building-"New Self awareness"

(2 Hours)

Module VI: End-of-Semester Appraisal

Viva Voce 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:

Cassuto Rothman, J. (1998). From the Front Lines, Student Cases in Social Work Ethics. Needham Heights, MA: Allyn and Bacon.

Gambrill, E. & Pruger, R. (Eds). (1996). Controversial Issues in Social Work Ethics, Values, & Obligations. Needham Heights, MA: Allyn and Bacon, Inc.

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YEAR -II, SEMESTER – IV

Course Title	ARCHITECTURAL CLIMATOLOGY	L	T	P/S	Credits
Course Code	BAR 407	1	0	2	2
Course Type	AC				

Course Objective:

To expose the students to climatic design principles,their influenceon building design and energyconservation through passive techniques.

Course Contents:

Module I: Introduction to Climate:
Importance of climate in architecture, factors affecting climate, elements of climate- Solar radiation, temperature, wind, humidity and precipitation and their measurement.

Module II: Climatic Zones

StudyofanalysisofclimaticzonesinIndiaalongwithdataanalysis.Studymeasurementandanalysisofmicro climaticelementsanditsuseinArchitecturaldesign.

Module III: Human thermal comfort, Ventilation and air movement
Studyofheatexchangeprocessbetweenhumanbodyanditssurroundingswithrespecttocriteriaofcomfort.
AirTemperature-Factorsthatinfluenceairtemperature–latitude,altitude,seasons,water,trees,areasetc.; inversion of temperature, thermal diffusivity, thermal conductivity and heat transmission through building elements

Module IV: Shading devices
Method of recording the position of sun in relation to earth, solar chart, shadow angle protractor and its application in design of shading devices. Methods of calculating and designing of shading devices.

Module V: Day light& Orientation
Naturallight,glare,daylightfactoranddaylightingintropics.DesignstrategiesforIndianclimatezoneswith respecttovariousclimatezones,Orientationofbuildingsinrelationtosunandwind.

Module VI: Climate and Design Of Buildings
Design strategies for different climatic zones in India – A Climate responsive design exercises

Student Learning Outcomes:
To acquaint students to various concepts of climate that governs the design of the building model.

Pedagogy for Course Delivery:
The course will be delivered through lectures and practical examples.

Prerequisite:
NILL

Assessment/ Examination Scheme:

Theory %	Lab/ practical/studio %	End Term Examination
100 %	NILL	EE

Lab / Practical / Studio Assessment:

	Sessional work					End Term
Weightage %	50%					50%
Component drop down	A	S	AS1	AS2	MSE	EE
Weightage %	05	05	10	10	20	50

A:Attendance,S:Seminar,PR:Presentation,AS:Assignment,MSE:MidsemesterExam,VV:VivaVoice,C: Casediscussion,P:Project,CT:classtest,SW:StudioWork,EE:Endsem.Exams.

Text & References:

Text:

1. ClimatologyFundamentalsandapplication–JohnRMather
2. IntroductiontoClimatology–AnthonySealey.
3. ClimaticDesign–WatsonDonald.
4. Sun,WindandLightbyG.Z.Brown.
5. ClimaticallyResponsibleEnergyEfficientArchitecturebyArvindkrishnan.
6. HousingClimateandComfortbyMartinEvans.\
7. Manualoftropicalhousingandbuilding,Koenisberger

References:

8. EnergyEfficientHousingbyMiliMajumadar,PublishedbyTERI.
9. Climatologically&SolardataforIndia–T.N.Seshadry.
10. Manualoftropicalhousingandbuilding–Koenigsberger&Ingersol.
11. TropicalArchitecture–MaxwellFry&JaneDrew
12. DesignPrimerforHotClimate–AllanKonya

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MADHYA PRADESH

Course Title: Stress & Coping Strategies
Subject Name: Behavioural Science - VI
Course Level: Undergraduate
Course Code: BSU-643
Total Hours: 10

Semester-VI
Course Credit: 01

Course Objective:

- To develop an understanding the concept of stress its causes, symptoms and consequences.
- To develop an understanding the consequences of the stress on one's wellness, health, and work performance.

Course Contents:

Module I: Stress **(2 Hours)**

- Meaning & Nature
- Characteristics
- Types of stress

Module II: Stages and Models of Stress **(2 Hours)**

- Stages of stress
- The physiology of stress
- Stimulus-oriented approach.
- Response-oriented approach.
- The transactional and interact ional model.
- Pressure – environment fit model of stress.

Module III: Causes and symptoms of stress **(2Hours)**

- Personal
- Organizational
- Environmental

Module IV: Consequences of stress **(2 Hours)**

- Effect on behavior and personality
- Effect of stress on performance
- Individual and Organizational consequences with special focus on health

Module V: Strategies for stress management **(2 Hours)**

- Importance of stress management
- Healthy and Unhealthy strategies
- Peer group and social support
- Happiness and well-being

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Student learning outcomes

- *Student will able demonstrate thorough understanding of stress and its effects*
- Student will able to learn various coping strategies to deal stress effectively so to overcome the consequences and impact of stress on their health and wellbeing, ultimately it will enhance their performance.

Examination Scheme:

Evaluation Components	Attendance	Journal of Success (JOS)	Social Awareness Program (SAP) SAP Report/SAP Presentation	End Semester Exam	Total
Weightage (%)	5	10	15	70	100

Suggested Readings:

- Blonna, Richard; Coping with Stress in a Changing World: Second edition
- Pestonjee, D.M, Pareek, Udai, Agarwal Rita; Studies in Stress And its Management
- Pestonjee, D.M.; Stress and Coping: The Indian Experience

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YEAR -III, SEMESTER – VI

Course Title	Site Planning & Landscape Design			L	T	P	S	Credits
Course Code	BAR 608			1	2	0	0	3
Course Type	AC							

Course Objective:

To acquaint the student with the various natural elements used to design transitional and outside spaces and establish a linkage between nature and the built environment

Course Contents:

Module I: Introduction

Definition, scope, landscape architecture in relation to architecture. Landscape design elements and principles, historical review of gardens in India, Persia, Japan, Italy, France and England , contemporary landscape design

Module II: Characteristics and use of plants

Characteristics of various types of plants and their suitability for landscaping; plant selection criteria, planting design.

Module III: Site Analysis

Analysis of site with respect to topography/ slope, hydrology/ drainage, geology/ soil, vegetation, views – on site/ off site.

Module IV: Landscape Design

Landscape design for various building types; landscaping parks and roads, rock gardens, terrace gardens, landscaped courts. Preparation of landscape schemes; Landscape construction.

Examination Scheme:

Components A C P S CT1 CT2 EE

Weightage (%) 05 05 10 10 10 10 50

Text & References:

Text:

· An Introduction to Landscape architecture by M. Laurie.

· An Introduction to Landscape Design by H. V. Hubbard

· Fundamentals of Landscaping and Site Planning by James B. Root.

· History of Garden Design by D. Clifford

· Tropical Garden Plants in Colour by Bose and Chowdhury

References:

· Colour and Design for Every Garden by Ortloff and Raymore

· Design with Nature by I. Mcharg

· The Way We Live by Alfresco

· New Landscape Design by Robert Holden

· Fundamentals of Ecology by M. C. Dash.

· Landscape Detailing by Michael Ittlewood.

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YEAR -V, SEMESTER – X

Course Title	Alternate source of energy		L	T	P	S	Credits
Course Code	BAR 1004		1	1	0	0	2
Course Type	EC						

Course Objective:

- Understanding role of alternative sources of energy in built environment
- Understanding the methodology to be followed and application while using other sources of energy in a building.

Course Contents:

Module I: Introduction to alternative sources of energy:
Understanding the other sources of energy – solar energy, wind energy, tidal energy etc. Scope and factors influencing built environment. Site and climatic requirements, site constraints, construction and technical requirements and limitations.

Module II: Understanding Application of Solar energy in architecture
Ways of adopting energy in architecture :– Active and Passive. Carefully study the examples of both.

Module III: Live study & Application
To understand the thorough application of renewable and alternative energy , students should visit and submit a detailed report on any one building using solar energy.

Student Learning Outcomes:
To familiarize with the technologies using renewable sources of energy in developing and harnessing energy for built environment .

Pedagogy for Course Delivery:
The course is delivered through lectures, field trips and presentation by the students

Prerequisite:
Nil

Assessment/ Examination Scheme:

Theory %	Lab/ practical/studio %	End Term Examination
100 %	NILL	Theory

Lab / Practical / Studio Assessment :

	Sessional work						End Term
Weightage %	50%						50%
Component drop down	A	S	AS1	AS2	CT1	CT2	Theory
Weightage %	05	05	10	10	10	10	50

A : Attendance, S : Seminar, PR : Presentation, AS : Assignment , MSE: Mid semester Exam, VV: Viva Voice, C: Case discussion, P: Project, CT: class test, SW : Studio Work, EE: End sem. Exams.

Text & References:

17. CLIMATE RESPONSIVE ARCHITECTURE:A Design Handbook for Energy Efficient Buildings.ArvindKrishan (Author), Nick Baker (Author), Simos Yannas (Author),Steve Szokolay (Author)
18. A Golden Thread: 2500 Years of Solar Architecture and Technology by Ken Butti (Author), JohnPerlin (Author)

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MADHYA PRADESH

Established vide Government of Madhya Pradesh Act No. 27 of 2010

Course structure: Interior Landscape Design – BID409

Course Title: Interior Landscape Design **Credit Units: 02**

Course Level: UG Level **Course Code: BID409**

Course Objectives:

- To develop a conceptual understanding of landscaping design parameters for various built forms.
- To develop skills in integrating landscape design with built environments.
- This course introduces students to the knowledge of landscaping design parameters, landscape elements, plant materials etc. to use in the interiors effectively for aesthetic enhancement and visual comfort.
- Study of landscapes, their use in landscape. Introductions to design principals & methodology of landscape design.

Pre-requisites: The students must possess fair understanding of plantation, environmental benefits.

Course Contents/Syllabus:

	Weightage (%)
Module I: Introduction to landscape architecture	25%
Descriptors/Topics role of landscaping design in the built environment. Types of natural elements – stones, rocks, pebbles, water forms, plants and vegetation. Elements of interior landscape.	
Module II: Introduction to study of plants in relation to landscape design and interiors	25%
Descriptors/Topics Types of indoor plants, plant characteristics: i.e., biology, soil, moisture, light nutrient, atmospheric conditions, growing medium, pests & diseases. (herbarium) Botanical nomenclature, anatomy and physiology of plant growth. Indoor plants in Indian context. Market survey and costs.	
Module III: Design with plants	25%
Descriptors/Topics Basic principles of designs. The physical attribute of plants and relation to design. Appearance, functional and visual effects of plants in landscape design and built environment. Selection and management of plant material in relation to the built environment. Design concepts related to use of sculpture, lightings, garden furniture, architectural feature and grouping them into meaningful composition s for visual and functional effects.	

Module IV: Landscaping design parameters for various types of built forms	25%
Descriptors/Topics indoor and outdoor linkage to spaces. Landscaping of courtyards- residential and commercial forms. Indoor plants and their visual characteristics- color, texture, foliage. Science of maintaining and growing greenery. Flowers- its colors, texture and its visual perception in various indoor spaces and science of flower arrangement. Automatic irrigation costing and installation of micro irrigation systems.	

Student Learning Outcomes:

- They are familiar with technology that is used to design ceramics and glassware and, work in construction market to design high-end products.

Pedagogy for Course Delivery:

- Laboratory sessions, which support the formal lecture material and also provide the student with practical construction, measurement and debugging skills. Participants are encouraged to engage in active interaction through classroom participation.

Assessment/ Examination Scheme:

Components	Mid-Term	Assignment	Attendance	End Term (EE)
Weightage (%)	10	15	5	70

Text Reading:

- Laurie, Michael, An Introduction to Landscape. 2nd edition, Prentice Hall, New Jersey, 1986.
- Trivedi. P.Prathiba. Beautiful Shrubs. Indian council of Agricultural Research. New Delhi, 1990.
- Hacheat, Blan. Plant Design.

References:

- Gerald Robert Vizenor , A Guide to Interior Landscapes, Univ of Minnesota Press, 1990.
- Nelson Hammer and Mel Green, Interior Landscape Design, Mc Graw Hill, 1991.

PROFESSIONAL PRACTICE

Course Code: BID 850 **Credit Units: 03**

Course Objective:

To acquaint the students with role of an interior designer in society, scale of charges conduct in the practice. Requirements of interior design competitions and appointment of contractor for interior works.

Course Contents:

Module I: Introduction
Contract and conditions of engagement for interior projects

Module II: Duties
Responsibilities, liabilities and duties of interior designer

Module III: Contract Document
Terms and conditions for entering into a Contact, Scale of charges and mode of payment for the professional services to be offered

Examination Scheme:

Components	C	P	S	A	CT	EE
Weightage (%)	05	05	05	05	10	70

Text & References:

Text:

- A Visual Dictionary of Architecture, Francis D.K. Ching
- Interior design illustrated, Francis D.K. Ching
- House Book (The Complete Guide to Home Design), Terence Conran
- Masonry (Concrete, Brick, Stone), Christine Beall
- Metric Handbook (Planning & Design Data) 2nd Ed.Edited By, David Adler

References:

- Window Fashion, Charles T. Randall
- Illustration + Perspectives (In Pantone Colors), Eiji Mitooka
- Elements of Architecture, Meiss Pieree Von
- Architecture: Form, Space and Order, Francis D.K. Ching
- The Construction of Building Vol- 1 to 5, R. Barry
- Building Construction, N.L. Arora &, B.R. Gupta
- Interior Detail – 1 (Residence), Jeong, Kwang Young
- Interior Spaces Vol – 6 (A Pictorial Review), Image Publishing Group

Course structure: Housing and Environmental Planning – MURP105

Course Title: Housing and Environmental Planning **Credit Units: 03**
Course Level: PG Level **Course Code: MURP105**

Course Objectives:

- The course would have two sections on housing and environment and introduce the basics of both in relation to each other.
- **Housing:**
  The objective of this course is to familiarize students with a wide spectrum of aspects related to housing viz., housing scenario, housing needs, housing design, building legislations and relevant methods for formulating housing strategies. The course is introductory in nature, aimed at providing basic knowledge of issues of urban development relevant to housing planning in India.
- **Environment:**
  The objective of this course is to initiate the students to a discreet understanding of the environment and the interactions and inter-relationships of all living organisms with the physical surroundings. All social, cultural and technological activities being carried by human beings have profound influence on the environment. This course will enable a thorough understanding of all these aspects.

Pre-requisites: The students must possess fair understanding of the housing and environment in India.

Course Contents/Syllabus:

	Weightage (%)
Module 1: Concepts and Definitions	20%
Descriptors/Topics Shelter as a basic requirement, determinants of housing form, Census of India definitions, Introduction to policies, housing need, demand and supply, dilapidation, structural conditions, materials of constructions, housing age, occupancy rate, crowding, housing shortage, income and affordability, poverty and slums, houseless population Various housing typologies viz. traditional houses, plotted development, group housing, multi-storied housing, villas, chawls, etc., slums and squatters, night shelters, public health issues related to housing, various theories of housing, concept of green housing, green rating of housing projects.	
Module 2: Social and Economic Dimensions	30%
Descriptors/Topics Housing as social security, role of housing in development of family and community well being, status and prestige related to housing, safety, crime and insecurity, deprivation and social vulnerability, ghettoism, gender issues, housing for the elderly. Contribution of housing to micro and macro economy, contribution to national wealth and GDP, housing taxation, national budgets, fiscal concessions, forward and backward linkages.	
Module 3: Housing and the City	

Descriptors/Topics Understanding housing as an important land use component of city plan / master plan, considerations for carrying out city level housing studies, projections, land use provisions; Suitability of land for housing, housing stress identification, projecting housing requirements, calculating housing shortages, housing allocation.	**20%**
Module 4: Planning for Neighborhoods **Descriptors/Topics** Approaches to neighborhood living in traditional and contemporary societies, elements of neighborhood structure, Planning and design criteria for modern neighborhoods, norms and criteria for area distribution, housing and area planning standards, net residential density and gross residential density, development controls and building byelaws, UDPFI guidelines, NBC 2005 provisions and Case studies of neighborhood planning.	**30%**

Student Learning Outcomes:

- The course would have two sections on housing and environment and introduce the basics of both in relation to each other.

Pedagogy for Course Delivery: The course will use a mix of theory, presentations and literature study with hands on exercises of housing layout. Participants are encouraged to engage in active interaction through classroom participation

Assessment/Examination Scheme:

Components	Mid-Term	Assignment	Attendance	End Term (EE)
Weightage (%)	20	25	5	50

Text Reading:

Housing

1. Housing: Changing Needs and New Directions, V. Gandotra, M. Shukul, N. Jaju and N. Jaiswal, Authors press
2. Housing and Urbanisation-A study of India, Cedric Pugh, Sage Publications, New Delhi
3. Housing Laws in India-Problems and Remedies, P.K.Sarkar, Eastern Law House Private Ltd.
4. National Housing Policy, GOI, New Delhi
5. Reading Material on Housing, K. Thomas Poulose, ITPI, India
6. Understanding Housing Policy, Brain Lund, the Policy Press, Great Britain

Environment:

7. 1. Fundamentals of Ecology, Odum, E.P., Barrett, G.W., Brewer, R., Thomson Brooks,
8. 2. Ecology, Impact Assessment and Environmental Planning, Westman W., John Wiley and Sons
9. 3. Integrated Environmental Planning, James K. Lein, Blackwell Publishing
10. 4. AITP Reader on Ecology & Resource Development, AITP

References:

- Urban Development and Housing in India-1947 to 2007, Rishi Muni Dwivedi, New Century Publications
- Housing Policies and Related Acts and Schemes of Government of India
- Holding Their Ground: Secure Land Tenure for the Urban Poor in Developing Countries, Durand-Lasserve, Royston L, Earthscan Publication, UK
- AITP Reading Material on Environmental Planning and Design, Prof A. K. Maitra, SPA Delhi10

AMITY UNIVERSITY
MADHYA PRADESH
Established vide Government of Madhya Pradesh Act No. 27 of 2010

Course structure: Urban Design and Landscape – MURP303

Course Title: Urban Design and Landscape **Credit Units: 03**
Course Level: PG Level **Course Code: MURP303**
Course Objectives:

- The course comprises of two components of Urban Design and Landscape. The objective of this course is to acquaint student with the role of urban design and landscape planning in Urban and Regional Planning and equip them with appropriate methods and techniques.

Pre-requisites: The students must possess fair understanding of Urban Design and Landscape.

Course Contents/Syllabus:

	Weightage (%)
Module- I - Urban Design **Descriptors/Topics** **Scope and Objectives of Urban Design;** Its Relation with Architecture and Urban Planning; Scale of Various Urban Design Projects - Regional and City Level; Urban Design Terminology, **Modern Techniques, Methods and Emerging Approaches to Urban Design;** Behavioral Issues in Urban Design; Principles of Urban Spatial Organization, **Urban Spaces** - Hierarchy and Nature, Sense of Enclosure, Isolation and Continuity, Skin and Perception; Urban Massing in Built Form; Image Ability and Elements of Urban Design, **Urban Design at Micro Level:** Campus Planning, City Centers, Transportation Corridors, and Residential Neighborhoods, **Development Control Guidelines, Zoning** --- Restrictive, Indicative, Performance and Incentive Zoning, The Social, Perceptual, Temporal and Morphological Aspects of Urban Design, Understanding Scale and Issues of Urban Design Interventions and Strategies in Cities, **Case Studies of Urban Design Projects:** Best Practices and Analysis of Urban Design Projects in India.	30%
Module- II - Landscape **Descriptors/Topics** A Comparative Study of the Major Traditions of Landscape Design in the East and the West in Relation to Concepts of Space and Variations in the Use of Landscape Elements, Principles and Techniques of Design with Landform, Water and Vegetation. Plant Characteristics and Planting Designs; Plantations along Urban Roads and Regional Highways; Landscaping of Recreational Areas; Landscape Design Related to Land-Use, Circulation Networks and Activity; Street Furniture as a Component of Urban Landscape. Characteristics and Components of Open Space Patterns in Towns and Cities (Traditional and Contemporary); Basic Types: Streets, Squares, Plazas, Gardens, Ghats and Maidans, Public Parks at District, Local and Neighborhood Levels; Park Systems; Urban and Regional Level Open Spaces. The Rural Landscape: Characteristics, Components and Change Related to Agriculture, Forestry and Development, Principles of Understanding and Evaluating an Existing Landscape; Development as a Response to Constraints and Opportunities Offered by the Site, Site Planning: Site and Resource Inventory Methods, Analyses and Appraisal; Landscape Suitability Analysis, Landscape Evaluation;	35%

Module- III - Landscape Conservation	
Descriptors/Topics Principles and Techniques, Landscape Planning as a Component of Regional Development Proposals for Industrial Location (Manufacturing and Extractive); Environmental Conservation, Tourism, Etc	**35%**

Student Learning Outcomes:

- The outcome of this course is to acquaint student with the role of urban design and landscape planning in Urban and Regional Planning and equip them with appropriate methods and techniques.

Pedagogy for Course Delivery: The course will use a mix of theory, studio work with physical survey and application of software. Participants are encouraged to engage in active interaction through classroom participation.

Assessment/Examination Scheme:

Components	Mid-Term	Assignment	Attendance	End Term (EE)
Weightage (%)	20	25	5	50

Text Reading:

1. The Urban Design Reader, Elizabeth Mcdonald, Routledge, New York
2. Public Places Urban Spaces: Dimensions of Urban Design, Mathew Carmona, Steve Teisdell, Architectural Press, London.
3. Redesigning Cities: Principles, Practice, Implementation, Jonathan Bartnett , American Planning Association , New York.
4. Responsive Environments, Ian Bentley, Architectural Press, London
5. Image of the City, Kevin Lynch, MIT Press
6. Urban Design: The Architecture of Towns & Cities, Paul D. Spreiregen, R.E. Krieger Pub.