

Master of Interior Design

Syllabus – First Semester

THEORY OF AESTHETICS AND DESIGN

(Theory)

Course Code: IND4101

Credit Units: 03

Course Objective:

Aesthetic response is most frequently stimulated by visual information, largely because the vision system provides data more immediately and at higher rates than do the other senses. This course aims student to understand the way of aesthetic stimulated the design.

Course Contents:

Module I : Introduction to Design & Aesthetics

- Defining design & aesthetics
- The purpose of design, various fields of design
- The nature of good design.
- Discussion on the theoretical basis to all present day design disciplines
- The Western Aesthetics and Indian aesthetics.

Module II : Principles and vocabulary of design

- Balance, Symmetry, Contrast, Rhythm, Harmony, Unity, Scale, Proportion.
- Space : Elements of space making and their combinative principles
- Form : Elements of form and the resultant configurations
- Scale: Human scale & its manifestations.
- Qualifiers of space & form: light, colour, material & texture.

Module III : Issues of Idea & Theme

- Issues as ordering mechanisms of Space, Material, Form, Colour & Light.
- Perception and response to Visual phenomena.
- Gestalts Principles.

Module IV : Design related Cognitive Learning

- Colour Theory & Application to the environment.
- Principal colour systems, methods of colour harmony.
- Appreciation of various arts; painting, murals sculpture, architecture etc.
- Design in the context of other arts.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70
(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)				

Text & References:

1. Palmer, Jerry, and Mo Dodson. Design and aesthetics: a reader. Psychology Press, 1996.
2. Folkmann, Mads Nygaard. The aesthetics of imagination in design. MIT Press, 2013.
3. Moffat, James Clement. An introduction to the study of aesthetics. Moore, Wiltach, Keys & co., 1856.
4. Heskett, John. Design: A very short introduction. Vol. 136. Oxford University Press, 2005.
5. Lidwell, William, Kritina Holden, and Jill Butler. Universal principles of design, Rockport Pub, 2010.
6. Puhalla, Dennis. Design Elements, Form & Space: A Graphic Style Manual for Understanding Structure and Design. Rockport Pub, 2011.
7. Visser, Willemien. The cognitive artifacts of designing. Lawrence Erlbaum Associates, 2006.
8. Albers, Josef, and Linda Holtzschue. Interaction of Color. Vol. 909. Yale University Press, 1979.
9. Lou Michel. Light: the shape of space: designing with space and light. John Wiley & Sons, 1995.

SPACE PLANNING IN INTERIORS

(Studio)

Course Code: IND4102

Credit Units: 03

Course Objective:

This course aims to develop the student to proficient in visual communication skills and space planning considering with human factors and by the application of design theory.

Course Contents:

Module I : Introduction to Interior Planning.

- Types of plan, principles of planning.
- House plan – plan for Low income, Middle Income, High Income groups.
- Plan for furniture arrangement for different rooms using furniture cutout.
- Applying art principles among different Income Group.

Module II : Furnishing Plan.

- Furnishing different types of rooms in the interior using application of art principles – Living room, Bed room, Study room and Dressing room.
- Furnishing different types of rooms to achieve various moods – Formal, Informal, Traditional, Country life style, Exotic, Romantic, Masculine, Feminine, Impersonal.

Module III : Creation of Art Objects

- Glass painting.
- Tile painting.
- Fabric painting.
- Pot painting.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Chaudhari, S.N., (2006), interior design. Aavishkar publisher, Jaipur
2. Faulkner, R and Faulkner, S (1990), Inside Today's Home, Holt Rine Heart and Winston, London
3. Joseph De Chiara, Julius Panero, Martin Zelnik, (1992), Time Saver standards for interior design a space planning, McGraw Hill, New York
4. Prabhakar, L.V. (1998), Vasthu – The User's manual, The Avenue Press, Chennai.
5. Rao, C.H.G. (1995), Plants for small houses, Jai Ganesh offset Printers, Chennai.
6. <http://www.wbdg.org/ccb/AF/AFDG/interior.pdf>
7. <http://www.scribd.com/doc/25076543/Interior-Design-Space-Planning-A>

INTERIOR ENVIRONMENTS

(Theory)

Course Code: IND4103

Credit Units: 03

Course Objective:

Aesthetic response is most frequently stimulated by visual information, largely because the vision system provides data more immediately and at higher rates than do the other senses. This course aims student to understand the way of aesthetic stimulated the design.

Course Contents:

Module I : Thermal Comfort

- Importance of human comfort in interior spaces.
- Heat flow within buildings.
- Thermal properties of materials.
- Climate and material choices for interior spaces
- Human response to the thermal environment.

Module II : Lighting

- Lighting in interiors.
- Lighting levels & criteria. Natural & artificial lighting.
- Selection of lighting.
- Lighting devices available in the market and their characteristics.
- Economic issues.
- Fixture selection and placement floor, table, desk, wall & ceiling units.
- Psychological impact of light on human moods & emotions.

Module III : Acoustics

- Behaviour of sound in enclosed spaces.
- Understanding acoustics and its integration with interior design.
- Sound absorbents porous materials, panel or membrane absorbers & resonators.
- Absorption coefficient of various acoustical materials.
- Human responses to the sensation of sound.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Mehta, Madan, Building construction: Principles, materials, and systems. Pearson Prentice Hall, 2008.
2. Godsey, Lisa. Interior design materials and specifications. A&C Black, 2012.
3. Bindra, S.P. and Arora, Building Construction: Planning Techniques and methods of Construction
4. J. Rosemary Riggs; Materials and Components of Interior Architecture
5. R. Chudley – Building Construction Handbook – BLPD, London 1990.

6. S.C. Rangwals – Engineering materials – Charotar Publishing, Anand.
7. Charangith shah, Water supply and sanitary engineering , Galgotia Publishers
8. William. J. Guinness; Mechanical and Electrical Systems for Buildings
9. M.H. Lulla, Air conditioning
10. Peter Templeton & Saunders – Detailing for Architectural Acoustics – Architectural press, 1994.
11. TTT Institute (Madras), Environmental Engineering, Tata McGraw – Hill publishing Company Limited
12. V.K. Jain, Fire Safety in Buildings

INTERIOR DESIGN HISTORY

(Theory)

Course Code: IND4104

Credit Units: 02

Course Objective:

This course aims the student to understand theoretical approaches to evaluation of interior design in relation to parallel developments in art and architecture, from a critical, historical and multicultural perspective.

Course Contents:

Module I : Introduction.

- Land mark events in the history of International design movement.
- Historical development of artifact

Module II : Overview of The Major Styles

- Regency, colonial, Art & crafts, Romanticism.
- Art Nouveau, Electicism, Art-Deco, Cubism.
- Post modernism.
- Late modernism and Deconstructivism.

Module III : Industrialisation and its Impact on Interior Design

- Changes in technology and production systems.
- Impact on life style and interiors.
- Shift from historical to modern methods of building spaces,
- Change in the interior elements of design and interior architecture.
- Various schools of thought and design emphasis.
- The modern movement and its impact on India.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Doordan, Dennis P. Design history: an anthology. MIT Press, 1995.
2. Pile, John F. A history of interior design. Laurence King Publishing, 2005.
3. Sparke, Penny. An introduction to design and culture. London: Routledge, 2004.
4. Davis, Whitney. A general theory of visual culture. Princeton University Press, 2011.
5. Aldo Leopold, A Sand County Almanac, Ballantine Books, New York 1982
6. R.G. Collingwood, The Principles of Art, Oxford University Press, New York 1958 (reprint 1998)
7. Carpenter, T.H. Art and Myth in Ancient Greece. London: Thames and Hudson, 1991.
8. Hobsbawm, Eric. Age of revolution: 1789-1848. Hachette UK, 2010.
9. Hobsbawm, Eric. Age of Capital: 1848-1875. Hachette UK, 2010.
10. Hobsbawm, Eric. Age of Empire: 1875-1914. Hachette UK, 2010.

11. Hobsbawm, Eric J. Nations and nationalism since 1780: Programme, myth, reality. Cambridge University Press, 2012.
12. Michael C, Andreas P; Post-modern Design (ISBN: 0856709433) ; Academy Editions, 1990
13. Banham, Joanna, ed. Encyclopedia of interior design. Routledge, 2015.
14. <http://www.designishistory.com/design/interactive/>

ART OF COLOUR & DESIGN

(Practical)

Course Code: IND4105

Credit Units: 03

Course Objective:

This course enables the students to identify the qualities of colour and colour schemes and identify various types of furnishing, criteria for their selection and care.

Course Contents:

Module I : Colour Terminology

- Definition, Qualities and properties of colour.
- Dimensions of colour, Hue, Value, Intensity.
- The colour wheel, Systems - Prang colour system, Munsell colour system. Psychologist colour chart and physicist colour chart.
- Psychological effects of colour.
- Effects of light on colour.

Module II : Art Principles in Colour

- Harmony, proportion, balance, rhythm and emphasis.
- Colour vs. Daylight and Artificial light.
- Colour temperature.
- Light reflection / Absorption and colour.
- Colour as an important décor element.
- Colour schemes related to colour harmony & Complementary colour harmony.

Colour Application on Interiors(Self-study / Assignment)

- Module III :
- Study and Practice, then submit the portfolio of :
 - Painting and Prepare colour charts.
 - Painting different rooms with various colour harmonies.
 - Designing Curtains and Draperies.
 - Application of art principles related to Home furnishing.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Chaudhari, S.N. Interior Design, Aavishkar Publishers, Jaipur, India; 2006.
2. Choudhury, A.K.R. Modern Concepts of Colour and Appearances, Oxford & IBH pub. Co. Pvt. Ltd., New Delhi; 2000,
3. Hillard, E. 2000, Brilliant Colour at Home, Kyle Cathie Ltd., London.
4. Kasu, A.A. 2005, Interior Design, Ashish Book Centre, Delhi.
5. http://en.wikipedia.org/wiki/Color_vision

6. http://en.wikipedia.org/wiki/Munsell_color_system
7. <http://www.docstoc.com/docs/108663367/The-Munsell-and-Prang-Color-Systems>
8. <http://www.google.com/patents/US20050211147>
9. http://www.carinyawindows.com.au/types_windows_doors.php
10. <http://www.linenclub.com/community/linen-garments/>

INTERIOR DESIGN MATERIALS & CONSTRUCTION-I

(Theory)

Course Code: IND4106

Credit Units: 03

Course Objective:

This course aims the exploration of interior construction concepts, materials, and assemblies and their influence on interior design. This course covers concepts, materials, and assemblies associated with development of planar interior elements as well as attention to related human factors, testing, detailing, specifications writing and end-use application.

Course Contents:

Module I : Visual Properties and their use of Interior Design Materials

Physical, behavioral and visual properties of the following materials and their use in the construction of floor, walls, ceilings, doors, windows, staircase, built in furniture and other components of interior architecture.

- Wood Soft, hard, paneling, plywood, boarding
- Metals Steel, Iron, Aluminum, Bronze, Brass, Copper
- Masonry Stone, Concrete, Brick, Tiles, Gypsum, Plaster

Module II : Field Study

(Self-study /

Assignment)

- Market surveys, Case studies.
- Site visits to understand the system of construction & details.
- Study of material application in the form of a Portfolio.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Mehta, Madan, Building construction: Principles, materials, and systems. Pearson Prentice Hall, 2008.
2. Herzog, Thomas, et al. Timber construction manual. Walter de Gruyter, 2004.
3. Godsey, Lisa. Interior design materials and specifications. A&C Black, 2012.
4. Binggeli, Corky. Materials for interior environments. John Wiley & Sons, 2008.
5. Godsey, Lisa. Interior design materials and specifications. A&C Black, 2012.

COMPREHENSIVE INTERIOR DESIGN STUDIO-I

(Theory)

Course Code: IND4107

Credit Units: 04

Course Objective:

The focus of the Comprehensive Design Studio is the integrated design and detailed development of a building including all of its requisite systems.

Course Description

This studio will merge the full range of interior education to produce a design. The students has need to practice their studies from design to scale models based on their own areas of choice, like interiors of Low Cost Housing, Green Buildings, Prefabricated Buildings, Landscaping, Modular Kitchens, Studio Apartments etc. The final visualization must be in digital graphics

Course Contents:

- **Site Design:** Ability to respond to site characteristics, including urban context and developmental patterning, historical fabric, soil, topography, ecology, climate, and building orientation, in the development of a project design
- **Codes and Regulations:** Ability to design sites, facilities, and systems that are responsive to relevant codes and regulations, and include the principles of life-safety and accessibility standards.
- **Technical Documentation:** Ability to make technically clear drawings, prepares outline specifications, and constructs models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.
- **Structural Systems:** Ability to demonstrate the basic principles of structural systems and their ability to withstand gravitational, seismic, and lateral forces, as well as the selection and application of the appropriate structural system.
- **Environmental Systems:** Ability to demonstrate the principles of environmental systems' design, how design criteria can vary by geographic region, and the tools used for performance assessment. This demonstration must include active and passive heating and cooling, solar geometry, day lighting, natural ventilation, indoor air quality, solar systems, lighting systems, and acoustics.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Linda O'Shea, ; The Interior Design Reference & Specification Book; Rockport Publishers; 2013
2. Interior Design; The New Freedom, BarbaralecDiamonstein, Rizzoli International Publications, New York, 1982.
3. Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1994.

4. Worldwide Interiors - International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987.
5. Simon Dodsworth Cardoso; The Fundamentals of Interior Design
6. Karlen Mark, Space planning Basics,

INTERIOR DESIGN WORKSHOP

Course Code: IND4133

Credit Units: 02

Course Objective:

This subject is intended to equip the students with some knowledge in areas which are not covered otherwise in the curriculum, but topics which are of interest or currently significant.

Course Description.

- A workshop is primarily an activity based academic event that is organized to provide the students a one to one and hands on experience on any aspect of their learning.
- Workshop is undertaking a significant practical unit of examining and analyzing various aspects of design.
- The communication in a workshop has to be necessarily two ways.
- The trainer has to make sure that the aspects covered are practically practiced by the participants.
- The student will choose the option of workshop from amongst their concentration electives.
- The evaluation will be done by jury of examiners comprising of the faculties.

Guidelines for Workshop :

The procedure for earning credits from workshop consists of the following steps:

- Relevant study material and references will be provided by the trainer in advance.
- The participants are expected to explore the topic in advance and take active part in the discussions held
- Attending and Participating in all activities of the workshop
- Group Activities have to be undertaken by students as guided by the trainer.
- Evaluation of workshop activities would be done through test and quiz at the end of the workshop.
- Submitting a write up of at least 500 words about the learning outcome from the workshop.

Methodology

The methodology followed at the workshop could be based on any one or more of the following methods:

- Case Study
- Business Game
- Simulation
- Group Activity
- Role Play
- Business Planning
- Quiz

Evaluation Scheme

Components	A	AP	MCQ	Solving the Case / Assignment / Write up	Total
Weightage (%)	10	30	30	30	100

(A - Attendance; AP - Active Participation; MCQ - Multiple Choice Questions)

Syllabus - Second Semester

HUMAN FACTORS IN INTERACTION DESIGN

(Theory)

Course Code: IND4201

Credit Units: 03

Course Objective:

Aesthetic response is most frequently stimulated by visual information, largely because the vision system provides data more immediately and at higher rates than do the other senses. This course aims student to understand the way of aesthetic stimulated the design.

Course Contents:

Module I : Introduction to Human Factors

- Role of psychology, physiology in interaction design.
- Human factors in work station and work environment design.

Module II : Cognitive psychology of design

- Sensation and perception.
- Human information processing and execution.
- Elements of learning,
- Learning theories of Behaviorism, Cognitivism and Constructivism.
- Piaget's Development theory

Module III : Interaction Design

- Design methodology for complex products, services and events.
- Design of integrated systems.
- Products for future use.
- Products to be used in groups.
- Devices used in public places.
- Products that enrich user experience.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Ratner, Julie, ed. Human factors and web development. CRC Press, 2002.
2. Sanders, M.S; McCormick, Ernest J; Human factors in engineering and design, McGraw Hill (1993)
3. Zunse, Leonard; Visual perception of form; Academic Press (1990)
4. Forman, George E.; The Child's Construction of Knowledge: Piaget for Teaching Children; National Association for the Education of You (1983)

5. Furth, Hans G.; Wachs, Harry; Thinking Goes to School: Piaget's Theory in Practice; Oxford University Press (1982)
6. Gagne, Robert M.; Wager, Walter W.; Golas, Katharine; Keller, John M.; Principles of Instructional Design; Wadsworth Publishing; 5th Edition (2004)
7. Reigeluth, Charles M.; Instructional-Design Theories and Models: A New Paradigm of Instructional Theory (Instructional Design Theories & Models); Lea (1999)
8. Kolko, Jon. Thoughts on interaction design. Morgan Kaufmann, 2010.
9. Saffer, Dan. Designing for interaction: creating innovative applications and devices. New Riders, 2009.
10. Levitin, Daniel J. Foundations of cognitive psychology: core readings. MIT press, 2002.
11. Goldstein, E. Cognitive psychology: Connecting mind, research and everyday experience. Cengage Learning, 2010.
12. Leonard, David C; Learning Theories, A to Z, Greenwood Publishing Group, 2002

DESIGN AND DÉCOR OF SURFACES

(Theory)

Course Code: IND4202

Credit Units: 03

Course Objective:

The objective of this course is to gain the knowledge about wall, floors and ceilings and design the interiors and exteriors This course helps the student to learn about surface enrichment.

Course Contents:

Module I : Introduction to Surface Application

- Purpose and relevance of surface application on exteriors and interiors,
- Uses of surface application in various fields

Module II : Walls

- Brick wall, wooden wall, stone wall, pavestone wall, Partition wall, Movable partitions, Boundary wall, Shared walls,
- Portable walls and wall coverings – Painting, Cork and cork veneer, Fabric backed vinyl, Paper backed vinyl, Metalized foil wall covering, Relief wall covering, Acoustical wall covering, Fabric wall covering, Painting,
- Wallpaper- Kinds of wall paper, Selection of wall paper, Advantages and disadvantages of wallpaper, Care and maintenance.

Module III : Floors

- Types of floors –Hard - Durable but noisy, Fire Retardant, Easily cleaned.
- Marble, Sand stone, Granite, Concrete, Vitreous Tile, Glazed Tile, Mosaic, Resin,
- Wooden flooring Semi Hard flooring – Cork, Cork tiles with PVC, Rubber.
- Plastic flooring – Tiles rubber, cork, flexible vinyl Soft flooring - carpet, rugs.

Module IV : Ceilings

- Treatment of ceilings and False Ceiling, Application of Plaster of Paris.
- Other innovative materials.
- Construction terminology and details.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Francis D. Ching, Design Drawing, Wiley publishers
2. John.F.Pile, Interior Design, 2nd edition, illustrated, H.N. Abrams, 1995
3. Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, Wiley publishers, 2007
4. <http://www.ca.uky.edu/agc/pubs/fcs4/fcs4402/fcs4402.pdf>
5. <http://www.diyadvice.com/diy/painting/interior/>

ACCESSORIES IN INTERIORS

(Studio)

Course Code: IND4203

Credit Units: 02

Course Objective:

The objective of this course is to enhance the knowledge about importance of accessories in interior, the aesthetic perception of materials and design. This course helps the students to develop a systematic design approach and integration of designed accessories with the interior.

Course Contents:

Module I : Concept of Accessories

- Definition and meaning of accessories.
- Types of accessories – Functional and Decorative.
- Selection and arrangement of accessories.

Module II : Design with a focus on Functionality.

- Ergonomics, Aesthetics, Multiple usages.
- Design aspects of accessories.
- Selection of pictures, Types of pictures, Framing and hanging law of margin in picture framing.
- Arrangements of Lamps, Furniture, Flowers, Sculpture, Antiques, etc.

Module III : Psychology of Moods

- Moods- definition, types of moods- cheer, joy, romance, excitement, reading.
- Placement of accessories in different rooms of an interior
- Impact of moods on the moods of an interior – bedroom, study room, living room, dining room, children's room and entertainment room.

Module IV : Design Practice

(Self-study /

Assignment)

- Study and Practice, then submit the portfolio of :
 - Designs of accessories
 - Designing pictures for framing as accessories.
 - Designs of arrangement of accessories according to the moods.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Chaudhari, S.N; Interior Design, Aavishkar Publishers, Jaipur, India, 2006.
2. Hilliard, E.; Brilliant Colour at Home, Kyle Cathie Ltd., London, 2000.
3. International Design Year Book, 1995: Furniture, Lighting, Tableware, Textiles and Products, Books Nippan, 1996.

4. Laura Slack, What is product Design? Roto Vision Publishers, 2006
5. Pile F 1997 Colour in Interior Design, McGraw hill, New York.
6. Treens. C; David.V; Designers's Guide to Decorative Accessories, Prentice Hall, 2008.
7. Wyszecki. G and Stiles; Colour Science: Concepts and Methods,Wiley& Sons Inc., N.Y; 2000.
8. Clark, Anita V. Psychology of moods. Nova Publishers, 2005.
9. Eiseman, Leatrice, and Robert Hickey. Colors for your every mood. Capital Books, 1998.

ADVANCED AUTO CAD & 3D VISUALIZATION IN INTERIORS (Studio-Graphics)

Course Code: IND4204

Credit Units: 03

Course Objective:

The objective of this course is to develop an advanced practice of computer software required for interior design applications. This course also explores the visualization techniques of 3D modeling.

Course Contents:

Module I : Working with Auto CAD

- Command Line, Status Toggles, Drawing Controls, Units, Workspace, Line, Polyline, Circle, Arc Rectangle, Ellipse, Spline, Polygon, Construction Line, Hatching, Gradient, Inquiry, Measure, Select All, Modify, Move, Copy, Rotate, Mirror, Fillet, Trim, Extend, Erase, Offset, Explode, Array, Bring to front/Send to back, Stretch, Break, Polyline Edit, Spline Edit, Hatch Edit, Scale.
- Study of Layers
- Study of Block, Insert, View, Plot
- Study and practice on preparing drawings including plans, elevations and sections.

Module II : Construction of 3 D Models

- Co – ordinate Systems for 3D, Creating Model, Creating meshes,
- Concept of elevation and thickness, Surface Modeling, 3D mesh, Solid Models.
- Controlling UCS.
- 2D to 3D conversion, perspective view, Walk through the layout.
- Types of 3D models, viewing 3 D models, 3D face, Revolve.
- Introduction to Rendering.
- Hidden surface removal, Assigning lighting and shades.

Module III : Design Practice

(Self-study /

Assignment)

- Study and Practice, then submit the portfolio of :
 - Various Interior Design plans and its visualization.
 - Design Furniture and Accessories.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70
(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)				

Text & References:

1. Teyapoovan. T., Engineering Drawing with Auto CAD 2000. Vikas Pub House Pvt Ltd., N. Delhi, 2000.
2. Georgeomura, Auto CAD, Release 2000.

3. Omura, G; Mastering Auto CAD BPB Publications, New Delhi, 2005
4. Saxena, S, A first course in computers, Vikas Publishing house, New Delhi; 2003.
5. <http://cad2learn.com/autocad-layer-toolbar-for-autocad-2013/>
6. <http://docs.autodesk.com>
7. www.sketchup.com
8. www.homestyler.com

MARKETING MANAGEMENT & ENTREPRENEURSHIP DEVELOPMENT

(Theory)

Course Code: IND4205

Credit Units: 03

Course Objective:

This course aims a clear understanding about marketing management and Sociology and acquaint with various aspects of entrepreneurship business.

Course Contents:

Module I : Basic Principles of Marketing Management

- Definition & Core concept, marketing tools, P's- product, price, place and promotion
- Market segmentation, targeting and positioning & analyzing the marketing environment.
- Study consumer behavior, needs and motivation, group dynamics, social surroundings and consumer perception.
- Promotion mix-direct selling, advertising, sales promotion and public relations
- Brand evaluation and new trends in marketing.

Module II : Entrepreneurship Development

- Definition & Concept, Evolution of Entrepreneurship, Characteristics and Skills of Entrepreneurship, Intrapreneurship, Entrepreneur Vs. Intrapreneur.
- Role of Entrepreneurship in Economic Development.
- Women Entrepreneurship in India.
- Role of Government in promoting Entrepreneurship in India.
- MSME Policy of India.
- Financial Support System for Entrepreneurship in India.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70
(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)				

Text & References:

1. Kotler, Philip, and Gary Armstrong. Principles of marketing. Pearson Education, 2010.
2. Gandhi, J. C. Marketing: A Managerial Introduction. Tata McGraw-Hill, 1991.
3. Peter, J. Paul, Consumer behavior and marketing strategy. London: McGraw-Hill, 1999.
4. Zeithaml, "Services marketing: Integrating customer focus across the firm." 2006.
5. Sahai; Entrepreneurship; Excel Books India, 2008
6. Tiwari, Anshuja. Entrepreneurship Development in India. Sarup& Sons, 2007.
7. Das, Keshab, ed. Micro and Small enterprises in India: The Era of reforms. Routledge, 2011.
8. Nagarajan, K.; Project Management; New Age International, 2004

INTERIOR DESIGN MATERIALS & CONSTRUCTION-II

(Theory)

Course Code: IND4206

Credit Units: 02

Course Objective:

This course aims the exploration of interior construction concepts, materials, and assemblies and their influence on interior design. This course covers concepts, materials, and assemblies associated with development of planar interior elements as well as attention to related human factors, testing, detailing, specifications writing and end-use application.

Course Contents:

Module I : Visual Properties and their use of Interior Design Materials

Physical, behavioral and visual properties of the following materials and their use in the construction of floor, walls, ceilings, doors, windows, staircase, built in furniture and other components of interior architecture.

- Glass Window, Plate, Tempered, Mirror, Block etc.
- Plastics Transparent, Laminate, Tile etc.
- Textiles Drapery, upholstery, wall covering, carpets, durries etc.
- Miscellaneous materials such as:
 - Linoleum, Asphalt, Cork, Rubber, Leather, Paper, Rexine, Paints & Finishes.

Module II : Field Study (Self-study / Assignment)

- Market surveys, case studies and site visits to understand the system of construction & details.
- Study of material application in the form of a Portfolio.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Mehta, Madan, Building construction: Principles, materials, and systems. Pearson Prentice Hall, 2008.
2. Herzog, Thomas, et al. Timber construction manual. Walter de Gruyter, 2004.
3. Godsey, Lisa. Interior design materials and specifications. A&C Black, 2012.
4. Stanley; Complete Painting; 2007
5. Mark Dixon, House Painting: Inside and Out; Taunton Press; 1997
6. Binggeli, Corky. Materials for interior environments. John Wiley & Sons, 2008.
7. Mehta, Madan, Building construction: Principles, materials, and systems. Pearson Prentice Hall, 2008.
8. Bindra, S.P. and Arora, Building Construction: Planning Techniques and methods of Construction
9. J. Rosemary Riggs; Materials and Components of Interior Architecture
10. R. Chudley – Building Construction Handbook – BLPD, London 1990.
11. S.C. Rangwals – Engineering materials – Charotar Publishing, Anand.

12. Inside today's home, Faulkner, R. and Faulkner 1987, Rinehart Winston, New York
13. Interior Design & Decoration, Sherril Whiton, Prentice Hall
14. Introduction to home furnishings, Stepat, D.D, 1991, The Macmillan company, New York.

COMPREHENSIVE INTERIOR DESIGN STUDIO-II (Studio)

Course Code: IND4207

Credit Units: 04

Course Objective:

The focus of the comprehensive design studio is the integrated design and detailed development of a building including all of its requisite systems.

Course Description

This studio will merge the full range of interior education to produce a design. The students has need to practice their studies from design to scale models based on their own areas of choice, like interiors of Low Cost Housing, Green Buildings, Prefabricated Buildings, Landscaping, Modular Kitchens, Studio Apartments etc. The final visualization must be in digital graphics.

Course Contents:

- **Building Envelope Systems and Assemblies:** Understanding of the basic principles involved in the appropriate selection and application of building envelope systems relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources.
- **Building Materials and Assemblies:** Understanding of the basic principles used in the appropriate selection of interior and exterior construction materials, finishes, products, components, and assemblies based on their inherent performance, including environmental impact and reuse.
- **Building Service Systems:** Understanding of the basic principles and appropriate application and performance of building service systems, including lighting, mechanical, plumbing, electrical, communication, and vertical transportation, security, and fire protection systems.
- **Research:** Understanding of the theoretical and applied research methodologies and practices used during the design process.
- **Integrative Design:** Ability to make design decisions within a complex architectural project while demonstrating broad integration and consideration of environmental stewardship, technical documentation, accessibility, site conditions, life safety, environmental systems, structural systems, and building envelope systems and assemblies

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Linda O'Shea, ; The Interior Design Reference & Specification Book; Rockport Publishers; 2013
2. Interior Design; The New Freedom, BarbaraLeC Diamondstein, Rizzoli International Publications, New York, 1982.

3. Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1994.
4. Worldwide Interiors – International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987.
5. Simon Dodsworth Cardoso; The Fundamentals of Interior Design
6. Karlen Mark, Space planning Basics,

INTERIOR DESIGN PROJECT

(Project)

Course Code: IND4232

Credit Units: 03

Course Objective:

The aim of the project is to provide the students with an opportunity to further their intellectual and personal development in the chosen field by undertaking a significant practical unit of activity.

Course Description.

A project can be defined as an initiative to achieve specific goals in order to meet an identified need. Interior Design project is intended to evaluate the student's maturity in the design of interiors and should reflect the knowledge gained from all the courses undertaken by the student in the field of interior design. The student is expected to submit a proposal for a project of his / her choice for approval, to the guide. The proposal must clearly indicate the scope of work, methodology, objectives and case studies. Live projects should be taken up, wherever possible. Periodic submissions must be made for review by the guide and a panel of internal examiners as per the schedule given by the department. The final portfolio must contain comprehensive proposals for the interior supported by drawings, illustrations and models, which will be evaluated by a panel of external examiners. The client may also participate as an examiner in case of real projects.

Points to be considered.

- Make a project idea & expectations before starting.
- Brainstorm on elements of and obstacles to successful project.
- Explore how to solve problems
- Define problem statement, possible causes, alternative solutions and project goal.
- The project has to be divided into two parts as follows:
- Steps in to the Project activity.

Step I: Preparing the draft project proposal for approval.

Consider the following:

- Suitability & Relevance of the topic
- Identify, State and Clarify the Problem.
- Analyze the Problem by Gathering Facts and Information.
- Develop Alternative Solutions & Select the Best Solution.
- Design a Plan of Action & Time available at the disposal.
- Feasibility of data collection within the given time limit & Challenges involved in the data collection.

Step II: Finalise the Project Proposal in consultation with the Supervisor.

Consider the following:

- Finalisation of the Topic
- Timeline & Action plans

Step III: Collection of information and data relating to the topic and analysis of the same.

Step IV: - Organization of The Project Report

- Front Page
- Bonafide Certificate cum Report Evaluation (From Faculty Guide & Internal and External Examiner)
- Declaration

- Acknowledgement
- Abstract
- Table of Contents
- List of Tables (optional)
- List of Figures (optional)
- Body Structure of the Dissertation
 - Chapter 1. The Introduction / Research background
 - Chapter 2. The Review of Related Literature
 - Chapter 3. Logical Framework.
 - Chapter 4. Research Methodology
 - Chapter 5. Data Analysis & Interpretations.
 - Chapter 6. Results, Discussion, Conclusions and Recommendations, etc.
- Bibliography
- Appendix

Evaluation Method for Project Report:

Chapter Scheme for the Training Report.

Marks Distribution

Overall Report Format / Layout	: 05
Chapter 1. The Introduction	: 10
Chapter 2. Logical Framework.	: 20
Chapter 3. The Conceptual Framework	: 15
Chapter 4. Research Methodology, Data Analysis & Interpretations.	: 10
Chapter 5. Conclusion and Recommendations	: 10
Total	: 70

Report Format and Layout :

A4 size has to be used with a good quality paper (minimum 80 gsm). Margins: 1.5 inches on the left-hand side, about 0.75 inches at right-hand side (the outer edge); and 1 inch at the top and bottom of the page. The report has to be written in font Times New Roman, 12 points with 1.5 lines spaced. Typescript should appear on one side only. Footnotes, quotations, references and photographic captions may be single spaced. Where appropriate, these should contain lists giving the locations of figures and illustrations. The font size of Chapter title: 20 points with bold, Heading: 14 with bold / sub-headings: 12 with bold. If applicable footnotes be given on the same page where reference is quoted and the footnote size to be used 10 points. Title page/ front page, certificate and declaration type style and formats are as per the University / Department standards. The report should comprise of a minimum of 70 pages and has to be submitted in three copies.

Guidelines for Evaluation:

- Each of the students has to undertake a project individually under the supervision of a faculty.
- Final Report should minimum 10 working days before the scheduled date of presentation.
- The student has to submit the Project Report and appear at the Viva-Voce Examination in the subsequent years (within the time period as per University Rules).
-
- The late submission doesn't consider for the evaluation.
- Without prior approval from supervisor of final Report will not be considered for the evaluation.
- Uncompleted / unorganized reports does not consider for the evaluation.
- Seminar presentation with 'Power Point' is compulsory.
- Language of Project Report and Viva-Voce Examination should be in English.
- Failure to submit the Report or failure to appear at the Viva-voce Examination will be treated as "Absent" in the Examination.
- No marks will be allotted on the Project Report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on Viva-Voce Examination unless a candidate submits his/her Project Report.
- Evaluation of the Project Work to be done jointly by internal expert and external expert with equal weightage, i.e., average marks of the internal and external experts will be allotted to the candidate.

Evaluation Scheme

Components	Project Report	Viva-Voce	Presentation	Total
Weightage (%)	70	20	10	100

Syllabus – Third Semester

DESIGN RESEARCH METHODOLOGY

(Theory)

Course Code: IND4301

Credit Units: 03

Course Objective:

This course aims to develop the fundamental knowledge of research methodology and to initiate the thesis writing. This course enables the students to understand the way of research in a professional design projects.

Course Contents:

Module I : Research & Research Design.

- Introduction, Definition, Types, Characteristics, Scope and Classifications of Research.
- Research Design: Meaning, Types, Factors Affecting, Basic Purpose, and Principles.

Module II : Data Collection

- Meaning, Need, Main Terminologies Used In Data Collection.
- Types of Data, Sources of Data, Methods of Data Collection.

Module III : Interpretation

- Data Analysis: Meaning, Need, Classification;
- Define and understand: Tabulation, Array, Range, and Frequency Distribution.
- Presentation of Data-Graphic, Histogram, Polygon, Ogive,
- Correlation and Regression Analysis of two variables.
- Report Writing: Meaning, Significance, Steps, Types, Findings, Suggestions, Conclusion.

Module IV : Research Procedures.

- Recognize philosophical implications and Formalize research:
- Literature reviews and Identifying and defining the problem
- Select appropriate research methodology.
- Understanding of research design parameters;
- Procedures to collect, analyze, interpret the data; Present information through a report.

Module V : Design Phases.

- Research and produce Design Specifications;
- Sketch ideas and concepts and Develop detailed design;
- Produce a digital design presentation file for the final design;
- Make an oral presentation on their design.

Module VI : Research Presentation Techniques: Interrelated components.

- Research Report Presentation: Dissertation components, Writing styles appropriate to research design, Style manuals, & Ethical considerations.
- Design Presentation: Design Journal, Digital Design Presentation; Oral Presentation.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70
(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)				

Text & References:

1. Laurel, Brenda. Design research: Methods and perspectives. MIT press, 2003.
2. Kothari, C. R. Research methodology: Methods and techniques. New Age International, 2004.
3. Gupta, S. P., and M. P. Gupta. Business statistics. Sultan Chand & Sons, 2010.
4. Sanoff, Henry. Visual research methods in design. John Wiley & Sons Incorporated, 1991.
5. Snyder, James C., ed. Architectural research. Vol. 6. Van Nostrand Reinhold Company, 1984.
6. McMillian, J; Research in education: A conceptual introduction , Harpers Collins College Publishers; NY; 1997

INTERIOR DESIGN THESIS

(Research)

Course Code: IND4337

Credit Units: 09

Objective:

This course aims to develop research aptitude of students and motivate students to involve in individual research. This course enables to train them in handling research projects independently to further their intellectual and personal development in the chosen field. The project can be defined as a scholarly inquiry into a problem or issues, involving a systematic approach to gathering and analysis of information / data, leading to production of a structured report.

Course Description:

- Each student is expected to research under a department approved guide / adviser.
- The topic chosen should preferably relate to the design project.
- The area of study may involve the following:
 - An in-depth investigation into any aspect of the chosen area.
 - Analysis of data, inferences to establish underlying principles.
 - Evaluation of existing theory in new concepts.
 - Establishment of a hypothesis and its substantiation.
- The particulars of schedule, content presentation, format, etc., as decided by the department from time to time, shall be strictly followed.
- The progress will be periodically reviewed by internal jury members.

SESSIONS – I : PRE-THESIS SEMINAR

The Pre- Thesis Seminar provides students with a framework to understand some emerging concepts in Interior and projects of design complexity and equip the student with adequate Interior design research methods for the realization of thesis concept. During the Pre-Thesis Seminar, the subject of the thesis is developed and the project articulated. The Pre-Thesis Seminar should be conducted before the research work start. It is advised to conduct group-wise for the deep and healthy discussions.

Guidelines:

- Each student should submit minimum of 2 topics related to the research.
- Students are encouraged to pre-consult faculties in the department to choose and finalized their research topic.
- Each faculty can guide minimum of 3 students, depends the availability of facilities and no.of students in the class.
- The students should present their research topics or areas in the Pre-Thesis Seminar.
- A panel of faculty members has to judge the students' presentation and feasibility of research in the proposed topics.
- The individual faculty members of the panel can be selected the student with their preliminary choice of topic for further guidance through this process.

Points to be covered:

- Clear understanding of difference between design thesis and design studio.
- Selection of topics for Interior design thesis.
- Thesis topics based on building typologies, Preparation of synopsis, Methodology of design.
- Emerging concepts in interiors due changes in social, economic, technological variables.
- Review of design projects related to real world instances and relevant to community at large.
- Review of projects of design complexity, involving themes, sub themes and interior expression.
- Research in Interior design: Tools and Methods required handling a research.
- Scientific methods of research with special emphasis on interior design research methods.
- Interior enquiry visual, observations, questionnaire formats of enquiry, literature review and case studies.

SESSIONS - II : THESIS REPORT WRITING

Points to be considered:

- Suitability of the topic.
- Relevance of the topic.
- Time available at the disposal & Feasibility of data collection within the given time limit.
- Challenges involved in the data collection (time & cost, possibility of getting responses, etc.)

Guidelines:

- The research problem: what is a research problem? How to raise and state the problem?
- Spotting the research problem from the inconsistencies and contradictions that one observes in life.
- Library search for thesis..
- Topic defense: Final selection of the topic most preferred by the student.
- Writing the thesis using the American Psychological Association (APA) style.
- Defense of the chosen topic.
- Writing the bibliography of the proposed thesis in the APA style.

- Formation of research proposal / Synopsys.
- The parts of the research proposal: Chapter and its sections
- Writing Chapter 1. The Introduction / Research background
- Writing Chapter 2. The Review of Related Literature
- Writing Chapter 3. The Conceptual Framework
- Writing Chapter 4. Research Methodology
- Writing Chapter 5. Data Analysis & Interpretations.
- Writing Chapter 6. Summary, Conclusions, Discussion, and Recommendations Results, conclusion, etc.
- Writing the other parts of the dissertation.
- Completing the research& Final presentation.

Note: – The relevant Sketches, Technical drawings, Photograph of scale models / Prototypes, etc. can be included in the report

SESSIONS - III : ORGANIZATION OF THE THISIS REPORT

- Front Page
- Bonafide Certificate cum Report Evaluation (From Faculty Guide & Internal and External Examiner)
- Declaration
- Acknowledgement
- Abstract
- Table of Contents
- List of Tables (optional)
- List of Figures (optional)
- Body Structure of the Thesis.
 - Chapter 1. The Introduction / Research background
 - Chapter 2. The Review of Related Literature
 - Chapter 3. The Conceptual Framework
 - Chapter 4. Research Methodology
 - Chapter 5. Data Analysis & Interpretations.
 - Chapter 6. Results, Discussion, Conclusions and Recommendations, etc.
- Bibliography
- Appendix.

SESSIONS - IV : PRESENTATION & EVALUATION

Evaluation Method for Dissertation Report:

Chapter Scheme for the Training Report.	Marks Distribution.
Overall Report Format / Layout	: 05
Chapter 1. The Introduction / Research background	: 10
Chapter 2 The Review of Related Literature	: 20
Chapter 3 The Conceptual Framework	: 15
Chapter 4, 5 Research Methodology, Data Analysis & Interpretations.	: 10

Chapter 6.	Results, Discussion, Conclusions and Recommendations.	: 10
Total		: 70

Report Format and Layout :

A4 size has to be used with a good quality paper (minimum 80 gsm). Margins: 1.5 inches on the left-hand side, about 0.75 inches at right-hand side (the outer edge); and 1 inch at the top and bottom of the page. The report has to be written in font Times New Roman, 12 points with 1.5 lines spaced. Typescript should appear on one side only. Footnotes, quotations, references and photographic captions may be single spaced. Where appropriate, these should contain lists giving the locations of figures and illustrations. The font size of Chapter title: 20 points with bold, Heading: 14 with bold / sub-headings: 12 with bold. If applicable footnotes be given on the same page where reference is quoted and the footnote size to be used 10 points. Title page/ front page, certificate and declaration type style and formats are as per the University / Department standards. The report should comprise of a minimum of 75 - 100 pages and has to be submitted in three copies.

Guidelines for Evaluation:

- Each of the students has to undertake the research individually under the supervision of a faculty.
- Final thesis report should be submitted minimum 10 working days before the scheduled date of presentation.
- The student has to submit the thesis report and appear at the viva-voce examination in the subsequent years (within the time period as per University Rules).
- The late submission doesn't consider for the evaluation.
- Without prior approval from supervisor,thesisreport will not be considered for the evaluation.
- Uncompleted / unorganized thesis reports does not consider for the evaluation.
- Seminar presentation with 'Power Point' is compulsory.
- Language of thesis report and viva-voce examination should be in English.
- Failure to submit the thesisreportor failure to appear at the viva-voce examination will be treated as "Absent" in the Examination.
- No marks will be allotted on the thesis report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on viva-voce examination unless a candidate submits his/her thesis.
- Evaluation of the researchwork to be done jointly by internal expert and external expert with equal weightage, i.e., average marks of the internal and external experts will be allotted to the candidate.

Evaluation Scheme

Components	Thesis Report	Viva-Voce	Presentation	Total
Weightage (%)	70	20	10	100

INTERIOR DESIGN PORTFOLIO

(Studio-Graphics)

Course Code: IND4336

Credit Units: 05

Course Objective:

The portfolio submission is a mandatory for the M. Des (ID) program. This course is intensive visualization skill based course that requires a lot of time and commitment. This course aims to develop the student's ability to communicate their ideas, thoughts and feelings about the field of interior design in a visual form.

Course description:

The Design Portfolio is not simply a collection of your work. Rather, it is a personal statement of creative ability and design thinking. The portfolio is a self-presentation tool that creatively communicates the students' design outlook and level of development through a variety of media and skill sets. The portfolio should include a selection of design works and at least one example of the development of design work in the area of interior design. The portfolio submits for consideration must clearly indicate students' potential for graduate study to the reviewers. Computer access is strongly recommended for this course, especially to visualization part.

Please note, there is no typical model of a successful portfolio. Students remember that the reviewer is curious to see their best work and will make a decision based on the creativity display. It is always better to edit the work by presenting each project in a clear, concise, and legible manner before include into the portfolio. Also, do not include too many sketches and images. Students need to think of the progression of their work; show how each project builds on another or stand-alone projects that show their diverse talents. There is no minimum or maximum number of required pages, but the content counted on the basis of a number of projects available in the portfolio. Minimum 7 graphic projects and 1 Standalone project (compulsory) are required. If a student's original work is done on a larger format, scan / digital-photo it and reduces it to the requested size format. A table of contents should be included.

Originality and Integrity of Portfolio

Simply copying an image violates copyright law, is unethical, and constitutes plagiarism. Students are encouraged to create art and design from their imaginations, experiences and from direct observation of the world around them. It has made sure that all work should be the student's own.

In case students who make use of borrowed images, such as photographs in magazines, books or from the internet need to demonstrate a creativity and sophistication of approach that goes beyond mere copying. Students must show substantial and significant development that surpasses duplication.

PORTFOLIO DEVELOPMENT - GUIDELINES.

I. Portfolio Format:

Students should submit their portfolio in two ways, electronic format and hard copy (paper format). The specifications are given below for each format.

Electronic Format: Use pdf. files with a maximum resolution of 300 dpi submitted on a CD-ROM.

Hard copy format:

Size	:	A3 / 11" × 17" Size is preferred.
Layout	:	Portrait or Landscape with removable page inserts.
Portfolio display case	:	Vinyl Back Ring Binder with transparent removable file storage folder.

Note: Premium quality paper should use to print out of computer generated images. Good quality Cartridge sheets need to use for illustrations and sketching. The use of wood, metal, glass, or plastic in hard copy portfolios is NOT acceptable.

II. Portfolio Preparation

Points to be considered:

1. Composition - Placement or arrangement of elements in a work
2. Drawing - Demonstration of line weights, mark-making, proportion and medium
3. Design - Overall unity achieved by combining elements of art and principles of design.
4. Value - Relative darkness or lightness of a color
5. Spatial perception - Understanding of the spatial relationships of objects, and foreground, middle and background
6. Technique - Skillfulness in the use of fundamental methods and media
7. Color perception - General sensitivity to color and sophistication in its application
8. Originality - Capacity to think independently and transform the predictable; the quality of being new and original
9. Conceptual awareness - Expression of a clear idea, effective use of materials & processes to strengthen the concept
10. Aesthetic awareness - Guiding principle in matters of artistic beauty and taste

III. Portfolio Organization:

1. Portfolio Title Page

This is the starting page of an interior design portfolio contains a brief profile of the student that includes: Name & Photograph; Registration Number; Program Name, Institution Name; Contact Address; Date of Submission; Declaration of ownership, etc.

2. Table of Contents

3. Bonafide Certificate cum Portfolio Evaluation (From Faculty Guide & Internal and External Examiner)

4. Portfolio Work Contents

All the works included in the portfolio should be with the prior approval from the concerned faculty only. The organization of portfolio work can be segmented into 3 Parts:

Part-1 : Project (Standalone projects - that is presented from concept to completion)

This is the first part, which is integrated to dissertation project. The students have to convert the research findings into various Interior design ideas and concepts as part of the application process. These design ideas and concepts need to visually narrate and demonstrates as student's creative work and process in the form of a portfolio. This part must include:

- **Highlight of research:** Title, Scope and significance of study, Objective of study, Findings within one page.
- **Design work Boards:** Statement of design work (Design Brief), Mood board and Story board, Architectural Floor Plan, Finish Schedule and Color Legend, Finish Floor Plan, Elevations, Sections, and Details, Miscellaneous Drawings, Furniture Floor Plan, Installation Plans, Furnishings Specifications, Furnishings Cost Estimates, Furnishings Order Form, Specification sheets, Cost sheets etc.

Part-2 : Graphics (Projects builds on another)

The second part is mainly for to highlight what the students learned from the overall graduation studies. The students have to cover the major subject modules from the past semesters and visualize. It is not necessary to rework the entire modules. They can include the best works from their past assignment collections. But it is compulsory to consider each major area what they learned. Those who are lacking the sufficient collection of work, they may need to reproduce. The collection has to be presented as follows:

• **Design Skills:**

The design specialties most desirable to show as the following order of preferences:

Office/Corporate; Residential/kitchen & Bath; Hospitality Restaurant; Health care; Commercial Spaces and Interior design specializations.

All technical design skills that can be applied in a variety of building environments as above include:

- Freehand drawing of an interior space to include an architectural element (2D)
- Freehand drawing of an interior space to include an architectural element (3D)
- Freehand drawing of a collection of items / furniture. (2D)

- Freehand drawing of a collection of items / furniture. (3D)
- Design work including pieces that student designed at class or on your own.
- Interior visualizations by computer generated- 3D S Max, Sketch up, etc.
- Photographs of 3D Objects, Models, Prototypes etc. that student designed and created.
- Architectural drafting by hand.
- Architectural drafting by computer generated- Auto CAD.
- Any other work student feels may support their application to interior design includes their specializations.

- **Art Skills**

All art skills that can be applied in a variety of medias include:

- Freehand drawings.
- Artwork demonstrating use of colour by rendering with different colour media.
- 2D and 3D Drawings, Sketches, Posters, Graphics, Mural etc. (Manual)
- 2D and 3D Drawings, Sketches, Posters, Graphics, Mural etc. (Computer generated)
- Posters that explaining Typography and Calligraphy skills.
- Mood boards or Theme boards, Story boards that explaining Collage and Photomontage skills.
- Theme based Digital Photographs that explaining Photographic skill
- Photographs of Craft work that explaining Craft skill.

Part-3 : Written Content

The third part is to demonstrate students writing style and quality. The good hand written essay will be encouraged and gives the chance of more weightage. A 250 – 500 word essay discussing student’s perspective of the Interior Design industry and why they are interested in Interior Design is essential.

IV. Portfolio Evaluation:

Strong presentation shows work in its best light and indicates students’ ability to communicate in an effective manner.

The following criteria use to assess portfolio:

- Problem Solving & Creative Skills
- Drawing & Visual Skills
- Digital Literacy & Computer Skills
- Communication Skills
- Development of ideas - evidence of how you think
- An interest in contemporary interior design and the built environment.
- Experimental approach in your 3D work to handling materials in unusual combinations.
- Spatial awareness and an ability to think about interior design built environment.

Procedure for evaluation:

- Submission of priory approved portfolio hard copy.
- Make a presentation of their portfolio work (soft copy) in front of the examiners.
- Viva-voce
- The Portfolios will be reviewed by a jury consisting of external and internal examiner to be appointed by the Department / University.
- The jury will evaluate the soft copy presentation as well as a hard copy of portfolio.

Course Evaluation:

Components	Creative skill	Design Research	Presentation	Total
Weightage (%)	40	40	20	100

TRADITIONAL INTERIORS OF INDIA

(Theory)

Course Code: IND4302

Credit Units: 03

Course Objective:

The objective of this course enables the students to understand the components and principles that help to recognize and appreciate beauty of Indian traditional interiors.

Course Contents:

Module I : Vernacular Interiors of Northern Regions of India

- Forms spatial planning, Cultural aspects, Symbolism, Colour, Art.
- Materials of interior construction and design technique of:
 - Deserts of Kutch and Rajasthan.
 - Havelis of Rajasthan.
 - Rural and urban Gujarat; Wooden Mansions (Havelis).
 - Havelis of the Bohra Muslims.
 - Geographical regions of Kashmir; House boats of Kashmir.

Module II : Vernacular Interiors of Southern Regions of India

- Forms spatial planning, Cultural aspects, Symbolism, Colour, Art.
- Materials of interior construction and design technique of:
 - Houses and palaces of Kerala, House boats of Kerala, Kerala Vasthu kala.
 - Houses and palaces of Tamil Nadu, Chettinad Region, Agraharams.
 - Houses and palaces of Andhra Pradesh, Telangana and Karnataka.

Module III : Case study (Self-study / Assignment)

Western influences on vernacular interior of India

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70
(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)				

Text & References:

1. Paul Oliver, Encyclopedia of Vernacular Architecture of the World, Cambridge University Press, 1997.
2. Amos Rapoport, House, Form & Culture, Prentice Hall Inc. 1969.
3. R W Brunskill: Illustrated Handbook on Vernacular Architecture, 1987
4. V.S. Pramar, Haveli – Wooden Houses and Mansions of Gujarat, Mapin Publishing Pvt. Ltd., Ahmedabad, 1989
5. Kulbushanshan Jain and Minakshi Jain – Mud Architecture of the Indian Desert, Aadi Centre, Ahmedabad 1992.
6. G.H.R. Tillotsum – The tradition of Indian Architecture Continuity, Controversy – Change since 1850, Oxford University Press, Delhi, 1989.
7. Carmen Kagal, VISTARA – The Architecture of India, Pub: The Festival of India, 1986.
8. S. Muthiah and others: The Chettiar Heritage; Chettiar Heritage 2000

FURNITURE DESIGN

(Studio based Theory)

Course Code: IND4303

Credit Units: 03

Course Objective:

This course aims to learn the dimensions and the availability of designs used for furniture based on ergonomics applied to furniture design that related end-user needs.

Course Contents:

Module I : Exploration of the Idea of Furniture

- Furniture categories.
- Design approaches in furniture design.
- Measured drawing of a piece of furniture.
- Plan, elevation and drawings on full scale Measuring and drawing to scale.
- Simple objects, furniture, rooms, doors and windows etc.
- Scales and construction of scales, Plan, Elevation and Section etc.
- Reduction and enlargement of drawings.

Module II : An Introduction of Various Manufacturing Processes

- Injection Molding,
- Investment casting,
- Sheet metal work, Die casting,
- Blow- molding, Vacuum – Forming.

Module III : Seating Design.

- Different types of seating with a focus on the following:
 - Functionality.
 - Aesthetic.
 - Style.
 - Human factors and ergonomics.
 - The cost of the designed furniture piece.

Module IV Storage Systems

- Functional analysis of Storage systems.
- Deriving types of Cabinets needed for interior spaces.
- Kitchen cabinets, Wardrobes closets, Book cases, Show cases display systems.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Bradley Quinn, Mid-Century Modern: Interiors, Furniture, Design Details, Conran Octopus Interiors, 2006.

2. Jim Postell, Furniture Design, Wiley Publishers, 2007
3. John.F.Pile, Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995.
4. Robbie. G. Blakemore, History of Interior Design and Furniture: From Ancient Egypt to NineteenthCentury Europe, Wiley publishers, 2005.

ERGONOMICS AND PRODUCT DESIGN

(Studio based Theory)

Course Code: IND4304

Credit Units: 03

Course Objective:

This course aims to enable the students in the area of product design with the consideration of ergonomic aspects. This course will explore the innovative ideas to the students in the field of product design that applicable to interiors.

Course Contents:

Module I : Introduction to Ergonomics

- Basic theory and relationship with human comfort criteria.
- Ergonomic principles in design process and product design.

Module II : Principles of Product Design

- User centric, theme, metaphor, contemporary trends.
- Fabrication and proto typing.
- Techniques, material & processes employed as per industry standards.

Module III : Computer Aided Product Design

- Scope, areas of application, software available.
- Creative engineering design - principle mechanisms & linkages.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Roozenburg, Norbert FM, and Johannes Eekels. Product design: fundamentals and methods. Vol. 2. Chichester: Wiley, 1995.
2. Cross, Nigel. Engineering design methods: strategies for product design. John Wiley & Sons, 2008.
3. Green, William, and Patrick W. Jordan, eds. Human factors in product design: current practice and future trends. CRC Press, 1999.
4. Bridger, Robert. Introduction to ergonomics. CRC Press, 2008.

LANDSCAPE DESIGN

(Theory)

Course Code: IND4305

Credit Units: 03

Course Objective:

This course aims to develop a conceptual understanding of design parameters for various built forms and skills in integrating landscape design with built environments.

Course Contents:

Module I : Introduction to Landscape Design.

- Meaning and importance, Types of garden, Garden components.
- Garden design – formal and informal.
- Principles of landscape gardening.

Module II : Landscaping Design in the Built Environment.

- Types of natural elements – Stones, Rocks, Pebbles, Plants and Vegetation.
- Elements of interior landscape.
- Types of indoor plants, Care and Maintenance of plants.

Module III : Pot Culture.

- Meaning, selection of pots,
- Plants suitable for indoor, hanging baskets, display and placement,
- Indoor plant – Definition, importance and types of plants.
- Environmental factors:
 - Light: intensity, duration, source, effects, modifications, temperature, humidity, air movement and quality.
- Bonsai – meaning, plants suitable for bonsai culture, techniques and styles.
- Care and maintenance of indoor plants,
- Artificial indoor plant.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Chaudhari, S.N. 2006, Interior Design, Aavishkar Publishers, Jaipur, India
2. Motloch, John L. Introduction to landscape design. John Wiley & Sons, 2000.
3. Blake, Bartholomew James. An introduction to landscape design and construction. Gower, 1999.
4. Dunnett, Nigel, and James Hitchmough. The dynamic landscape: design, ecology and management of naturalistic urban planting. Taylor & Francis, 2007.
5. McHarg, Ian L., and Lewis Mumford. Design with nature. New York: American Museum of Natural History, 1969.
6. Hester, Randolph T. Design for ecological democracy. Cambridge, MA: Mit Press, 2006.
7. Rao, K. Manibhushan. Textbook of horticulture. Macmillan, 2005.

8. Tovah Martin; Indoor Gardens; Houghton Mifflin Harcourt, 1997.
9. Graham Clarke; Indoor Plants: The Essential Guide to Choosing and Caring for Houseplants; Reader's Digest, 1997

SUSTAINABLE INTERIORS

(Theory)

Course Code: IND4306

Credit Units: 03

Course Objective:

This course aims to enhance the students to develop their knowledge and skill for the efficient use of our natural resources with the consideration of futures as green Interiors is becoming an essential parameter in designing.

Course Contents:

Module I : The concept of sustainability.

- Definition, Meaning and Importance
- Sustainability and the Human Future
- Earth and the Sustainability Crisis.
- The Challenge of Sustainability

Module II : Sustainable Concept in Interior Designing.

- The Concept of Sustainable Interiors.
- Sustainable interiors designing by adopting various policies.
- Principles of Sustainable Interior Design.
- Benefits of Green Interiors
- Indoor Environment Quality (IEQ)
- Elements associated to IEQ

Module III : Case study (Self-study / Assignment)

Conduct a study on concept of green building. Visit any green building; absorb the place, design, interior elements, materials and construction techniques. Interview with appropriate persons and make a case study report.

Course Evaluation:

Components	A	H	CT	EE
Weightage (%)	05	10	15	70

(A-Attendance; H -Home Assignment; CT-Class Test; EE-End Semester Examination)

Text & References:

1. Lemons, John, Laura Westra, and Robert Goodland. Ecological sustainability and integrity: Concepts and approaches. Vol. 13. Springer Science & Business Media, 1998.
2. Marten, Gerald G. Human ecology: Basic concepts for sustainable development. Earthscan, 2001.
3. Gauzin-Mueller, Dominique, and Nicolas Favet. Sustainable architecture and urbanism: concepts, technologies, examples. Springer Science & Business Media, 2002.
4. Kim, Jong-Jin; Qualities, Use, and Examples of Sustainable Building Materials, CSS, University of Michigan, 1998.
5. Binggeli, Corky. Materials for interior environments. John Wiley & Sons, 2008.
6. American Institute of Architects; Environmental Resource Guide Subscription. Washington: AIA; 1992.
7. Sassi, P Strategies for Sustainable Architecture; New York, Taylor and Francis, 2006

8. Spiegel, Ross; Green building materials: a guide to product selection and specification. John Wiley & Sons, 2010.
9. Yudelson, Jerry. The green building revolution. Island Press, 2010.
10. Martha Maeda, The Complete Guide to Green Building & Remodeling Your Home, Atlantic Pub. Co. 2011
11. Giudice, Fabio, Product design for the environment: a life cycle approach. CRC press, 2006.

Syllabus – Fourth Semester

INTERIOR DESIGN INTERNSHIP (Professional Training)

Course Code: IND4437

Credit Units: 20

Objective:

The basic objective of an internship is to provide first hand practical exposure of the interior design industry functioning and to acquaint students with the culture of corporate. The Professional training will also provide an opportunity to the students to apply their theoretical understanding while working on the concerned project in the industry. Thus, this internship programme is an attempt to bridge the gap between theory and practice. This will also enhance the students' intellectual ability and attributes related to data handling, decision making, report writing, oral presentation and imbibing an interdisciplinary approach.

General Guidelines:

- Every student of under graduate courses will be required to undergo a practical training in an organization approved by the Institute for minimum of '90 calendar days'.
- The candidates shall be required to undergo training in the various areas of the organization concerned.
- The organization may assign a specific project to the candidate, which will be completed by him / her during the period of training.
- The work done by the candidate during the training period shall be submitted in the form of a report as per the guidelines provided by the Department.

Internships will be permitted in the following three areas:

- I) **Interior design / Architecture firms**
- II) **Interior design specializations:** This may provide avenues for practice exposure include lighting design, furniture design, cost estimation, specification writing, materials and product research, strategic planning, programming, post occupancy evaluation, sustainable design, historic preservation, community development, facilities management, construction administration and culture based design
- III) **Related specializations** – This may include companies such as Model home design, kitchen and bath design, Art representation, Color specialist, Interior Design writing and publication firms and Architectural photography.

Attitude:

- A member of the faculty will supervise the candidates during their Training along with a supervisor from Industry.
- Students need to aware of work environment and constantly look for opportunities to learn more about interior design.
- An internship is a privilege - the firm is not receiving payment for the hours they spend to train the student.
- It is student responsibility to provide value to them (not necessarily the other way around).
- Students need to take responsibility for making training as informative as can.
- Students need to document what they observed, ask lots of questions and show initiative.
- Training and work should be creative, exciting, noteworthy and detailed.

Attendance:

- Minimum of '90 calendar days' of training is compulsory for students as a 'full-time trainee'. Daily attendance is compulsory and to be marked daily and duly checked and signed by the industrial and faculty supervisor.
- Those who are failure to complete the training with minimum of 90 days will not be considered for final examination.

(PTO....)

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Progress Report:

- Students have to compulsorily submit a summary report of their progress once in every two week undersigned by the industrial supervisor.

The student will be required to repeat the training when:

- (i) The report from the employer is not satisfactory.
- (ii) The attendance in the employer office is less than 70% of the number of days required for training.

Internship Report

Submission of Internship Report will be part of the Final Evaluation.

Training Report Evaluation And Presentation.

The candidates will prepare a comprehensive Report. The Report and the certificate from the organization should be attested by the organization where the candidate did the Internship and the same will be submitted to the faculty for evaluation.

Guidelines for Writing an Internship Report

The Industrial Training Report should contain the items as suggested below and is to be presented in the manner and order listed. Students are advised to download the Microsoft Word template of the Industrial Training Report from the Industrial Training website and use the template to prepare the report.

Contents of Training Report:

1. Front Cover (Title Page)
2. Industrial Training Certificate (From Organization)
3. Declaration
4. Acknowledgements
5. Bonafide Certificate cum Report Evaluation [From the Guide (Internal) and External Examiner]
6. Abstract
7. Table of Contents
 - List of Tables (optional)
 - List of Figures (optional)
8. Body of the Industrial Training Report
 - Introduction / Learning Outcome.
 - Detail of Working Experience: Description of Tasks & Application of Theory and Soft Skills
 - Conclusion and Recommendations.
9. References
 - Citation in the text (if applicable)
10. Appendices
 - Summary of Daily Records, etc.

Evaluation Method for Training Report:

Chapter Scheme for the Training Report.

Marks Distribution.

Overall Report Format / Layout	: 05Marks
Chapter I: Introduction // Learning Outcome.	: 20marks
Chapter II: Detail of Working Experience	: 30 marks
Chapter III: Conclusion and Recommendations	: 15 marks
Total	: 70 Marks

(PTO.....)

(....continuation)

Report Format and Layout :

A4 size has to be used with a good quality paper (minimum 80 gsm). Margins: 1.5 inches on the left-hand side, about 0.75 inches at right-hand side (the outer edge); and 1 inch at the top and bottom of the page. The report has to be written in font Times New Roman, 12 points with 1.5 lines spaced. Typescript should appear on one side only. Footnotes, quotations, references and photographic captions may be single spaced. Where appropriate, these should contain lists giving the locations of figures and illustrations. The font size of Chapter title: 20 points with bold, Heading: 14 with bold / sub-headings: 12 with bold. If applicable footnotes be given on the same page where reference is quoted and the footnote size to be used 10 points. Title page/ front page, certificate and declaration type style and formats are as per the University / Department standards. The report should comprise of a minimum of 70 pages and has to be submitted in three copies.

Guidelines for Evaluation:

- Each of the students has to undertake the research individually under the supervision of a faculty.
- Final thesis report should be submitted minimum 10 working days before the scheduled date of presentation.
- The student has to submit the thesis report and appear at the viva-voce examination in the subsequent years (within the time period as per University Rules).
- The late submission doesn't consider for the evaluation.
- Without prior approval from supervisor,thesisreport will not be considered for the evaluation.
- Uncompleted / unorganized thesis reports does not consider for the evaluation.
- Seminar presentation with 'Power Point' is compulsory.
- Language of thesis report and viva-voce examination should be in English.
- Failure to submit the thesisreportor failure to appear at the viva-voce examination will be treated as "Absent" in the Examination.
- No marks will be allotted on the thesis report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on viva-voce examination unless a candidate submits his/her thesis.
- Evaluation of the researchwork to be done jointly by internal expert and external expert with equal weightage, i.e., average marks of the internal and external experts will be allotted to the candidate.

Evaluation Scheme

Components	Attendance	Internship Report.	Presentation	Viva-Voce
Weightage (%)	10	70	10	10