### BACHELOR OF DESIGN (INTERIOR DESIGN)

## STUDY SCHEME

#### Bachelor of Design (Interior Design) - 1st Semester

**Total Contact Hours = 26 Total Marks = 800 Total Credits = 21** 

SEMESTER 1st		(	Conta	ct Hr	s.		Marks	}		Duration
Subject Code	Subject Name	L	Т	S	P	Int.	Ext.	Total	Credits	of Exam Hrs
BMNCC0-053	Introduction to Interior Design	2	0	0	0	100	0	100	0	No Exam
BDIDS1-101	Interior Design Studio –	2	0	4	0	40	60	100	6	3
BDIDS1-102	Materials and Construction - I	2	0	3	0	40	60	100	5	3
BDIDS1-103	Manual Graphics – I	2	0	3	0	40	60	100	5	3
BDIDS1-104	History of Interior Design - I	2	0	0	0	40	60	100	2	3
BDIDS1-105	Elements of Interior Space	1	0	1	0	40	60	100	2	3
BDIDS1-106	Model Making	0	0	0	2	60	40	100	1	No Exam (External Viva - Voce)
BMNCC0-041	"Drug Abuse: Problem, Management & Prevention"	2	0	0	0	100	0	100	0	No Exam
BMNCC0-010	Universal Human Values - I	22Hrs (to be completed during SIP)*				Satisfactory/ Unsatisfactor				No Exam
Total		13	1	10	2	460	340	800	21	

- There will be Induction Programme of 3 weeks before start of classes.
- Drug Abuse: Problem, Management & Prevention & Introduction to Concerned Branch of Engineering are non-credit Courses; however, it is necessary to secure at least E grade in each of them.
- Educational Tour of duration up to 4 days during the semester may be undertaken

#### Bachelor of Design (Interior Design) -2<sup>nd</sup> Semester

Total Contact Hours = 26 Total Marks = 600 Total Credits = 24

SEMESTER 2 <sup>nd</sup>		Contact Hrs.				Marks				Duration
Subject Code	Subject Name	L	T	S	P	Int.	Ext.	Total	Credits	of Exam Hrs
BDIDS1-201	Interior Design Studio – II	2	0	4	0	40	60	100	6	6
BDIDS1-202	Materials and Construction - II	2	0	3	0	40	60	100	5	3
BDIDS1-203	Manual Graphics – II	2	0	3	0	40	60	100	5	3
BDIDS1-204	Theory of Interior Design	2	0	0	0	40	60	100	2	3
BDIDS1-205	Digital Graphics – I	1	0	0	4	40	60	100	3	No Exam (External Viva - Voce)
BHSMC0- 026	Universal Human Values - II	2	1	0	0	100	0	100	3	No Exam

Total	11	1	10	1	300	300	600	24	
Total	11	1	10	4	300	300	000	24	

- Exit Certificate of Interior Design can be opted after completion of 1 year in this course.
- Educational Tour of duration up to 4 days during the semester may be undertaken.

## 1ST SEMESTER

#### INTRODUCTION TO INTERIOR DESIGN

Subject Code: BMNCC0-053 L T S P C Duration: 30 Hrs.

20000

#### **COURSE PREREQUISITES**

Nil

#### COURSE OBJECTIVES

To appraise students with the knowledge, skills, and abilities necessary for a successful career in the field.

#### **COURSE OUTCOME**

- 1. To Understanding the different methods of design presentation and its deliver.
- 2. To understand the basics of Interior design and its implementation.
- 3. To understand the larger scope of Interior design associated fields.
- 4. Understanding the impact of Interior Project Management on the built environment.
- 5. To understand the role of Portfolio, Internship & its contribution towards professional practice.

#### **UNIT-I (10 Hrs.)**

#### **Fundamentals of Design and Applications**

Introduction to basic design principles and elements.

Design process: problem definition, research, concept generation, sketching, development, presentation, spatial relationships and proportions.

Architectural Drafting and Drawing, Computer-Aided Design (CAD), Interior Materials and Finishes, Manual Graphics

#### UNIT-II (10 Hrs.)

#### **Interior Design and Allied Fields**

Interior Materials and Finishes, Interior Lighting, Furniture Design

Color Theory and Application, Environmental Psychology

**Project Management** 

#### UNIT-III (10 Hrs.)

#### Portfolio, Internship and Professional Practices

Presentation skills for design projects, practicum to provide real-world experience

Ethics and responsibilities, Client communication and Project presentation

#### RECOMMENDED BOOKS

- 1. Architecture Form, Space and Order by Francis D.K. Ching
- 2. The Interior design Handbook: Furnish, Decorate and style your space by Frida Ramstedt.
- 3. The Interior design Reference & Specification Book by Chris Grimley.
- 4. Building drawing, 3rd edition M G Shah, C M Kale, Tata Mcgraw Hill publishing, New Delhi.
- 5. S. C. Rangwala Engineering materials Charotar Publishing, Anand
- 6. Architectural Graphics by Francis D.K. Ching
- 7. Interior Design Illustrated by Francis D.K. Ching

#### INTERIOR DESIGN STUDIO – I

Subject Code: BDIDS1-101 L T S P C Duration: 90 Hrs.

2 0 4 0 6

#### **COURSE PREREQUISITES**

Nil

#### **COURSE OBJECTIVES**

To make students familiar with various factors affecting the aesthetic and functional aspects of design through training them in two-dimensional and three dimensional design compositions.

#### **COURSE OUTCOME**

- 1. Understanding various design principles such as emphasis, balance, contrast, Harmony, Unity etc., and applying them in two-dimensional and three-dimensional compositions.
- 2. Understanding and applying design elements such as Point, Line, shape, color, texture, area, mass, volume etc.
- 3. Critical analysis of design of existing manmade objects, aiding self-criticism of design and inspiration from nature as a source for design.
- 4. Understanding the process involved in design including analysis, synthesis and evaluation.
- 5. To understand the evolution of design from basic concepts to design outputs.
- 6. To collaborate both technical knowledge along with creativity, theme and rendering output.

#### UNIT-I (30 Hrs)

Designs involving various elements such as point, line, shape, colour and texture – applied to compositions such as mural design, fabric design, mosaics, stained glass, engraving, block printing, collage etc. – involving all the principles of composition.

#### UNIT-II (30 Hrs)

3D sculptures involving platonic solids, wooden sculptures applying different types of carpentry joints, design and execution of POP made objects such as: cornices, moldings, brackets, etc., Metal and terracotta sculptures.

Study and critical analysis of man-made objects – their purpose, functional suitability, formal appeal, etc. – evolving suggestions for improvement of the same.

#### UNIT-III (30 Hrs)

Study and analysis of forms, patterns and color schemes in nature. Abstraction of natural forms and design of three-dimensional objects and two-dimensional patterns inspired by them.

#### RECOMMENDED BOOKS

- 1. Paul Laseau, Graphic Thinking for Architects and Designers, John Wiley & Sons.
- 2. TrewinCopplestone, Arts in Society, Prentice Hall Inc.
- 3. H. Gardner, Art through Ages.
- 4. David Fair, Design Graphics, Hodder and Stoughton.
- 5. Architectural arts and Sculpture, Guild Source Books.
- 6. Virginia Cobb Watson, Discovering the Inner Eye, Guptill Publication.
- 7. JohannessItten, The Art of Colour.
- 8. H.H. Arnason, History of Modern Art

- 1. One compulsory question is to be set from the entire syllabus.
- 2. The topic of the project is to be displayed on College / Institute Notice Board ten days in advance.

#### MATERIALS AND CONSTRUCTION- I

Subject Code: BDIDS1-102 L T S P C Duration: 75 Hrs.

2 0 3 0 5

#### **COURSE PREREQUISITES**

Nil

#### COURSE OBJECTIVES

To familiarize the students of Interior Design on material and construction methodology

#### **COURSE OUTCOME**

- 1. Understanding the process of building construction from the very first step.
- 2. To understanding the basic components of the buildings envelope for small buildings like Foundations, Walls, Openings, Roofs, Understanding simple roof & floor finishes.
- 3. Understanding masonry construction details
- 4. Developing the knowledge of components of the brick masonry
- 5. Understanding the Types, Uses & Market rates of building materials.
- 6. Understanding the various building materials used in construction of a building with study of their Constituents, Properties.

#### UNIT-I (25 Hrs)

#### INTRODUCTION TO MATERIALS

- Wood Soft and hardwood, plywood, laminated wood and particle boards properties, manufacture & uses.
- Synthetic Materials Different types of Glass, their properties, manufacturing processes and uses. Plastics injection moulding & other manufacturing methods, etc.
- Fabrics textile, Jute, leather etc. different types and their uses

#### UNIT-II (25 Hrs)

#### WALLS - TYPES OF MASONRY

Different types - Stone walls - random rubble, coursed rubble, square rubble, polygonal rubble & Ashlar etc. Brick masonry -Types of bonds - single & double Flemish bond, header bond, stretcher bond, rat trap bond, ornamental bonding.

#### UNIT-III (25 Hrs)

#### **TILED ROOFS**

Drawings indicating various types of sloped & hipped roof Types of sloping roof —lean to & couple roof with Mangalore tiles, country tiles & pan tiles.

#### STRUCTURAL SYSTEMS

 $Structures-Components\ of\ a\ load\ bearing\ wall\ \&RCC\ slab\ roof\ system\ -\ RCC\ beams,\ columns\ and\ framed\ structure$ 

#### **BASIC SERVICES**

Components of a toilet & bathroom – sanitary ware - W.C., wash basin, bathtub, jacuzzi etc. Sanitary fittings – taps, mixers, shower units

#### RECOMMENDED BOOKS

- 1. S. C. Rangwala Engineering materials Charotar Publishing, Anand
- 2. Francis D. K. Ching Building Construction Illustrated, VNR, 1975
- 3. W.B.Mckay –Building construction Vol1 –Longmans, UK 1981
- 4. W.B.Mckay –Building construction Vol 3 –Longmans, UK 1981

- 1. The examiner is required to set a total of six questions with two questions from each UNIT.
- 2. The student is required to attempt any one question from each UNIT making a total of three questions.

#### MANUAL GRAPHICS – I

Subject Code: BDIDS1-103 L T S P C Duration: 75 Hrs.

2 0 3 0 5

#### **COURSE PREREQUISITES**

Nil

#### **COURSE OBJECTIVE**

To make students improve their sketching skills & drawing abilities.

#### **COURSE OUTCOME**

- 1. To learn rendering of textures of different building materials in pencil.
- 2. To learn the fundamentals of drawing equipments and method of presentation
- 3. To understand variety of forms as a medium for indoor and outdoor sketching
- 4. To learn various colour schemes, tints and shades.
- 5. To make them understand the use of colors& their effects in drawing.
- 6. Isometric views of simple and complex forms.

#### UNIT-I (25 Hrs)

#### INTRODUCTION TO FREE HAND DRAWING

• Basic exercises, Still life, Basic forms, effect of lines to represent textures - Understanding of different types of perspective views using vanishing points, shading exercises etc.

#### **SKETCHING**

• Outdoor sketching including Lawns, bushes, Water Bodies, Plants & trees in different media. Indoor sketching – furniture, lights, corridor, lobby, class room etc.

#### UNIT-II (25 Hrs)

#### MEASURED DRAWING

• Lettering - types, Scale, measured drawing of furniture, wall panelling, flooring pattern, ceiling pattern, doors and windows.

#### GEOMETRICAL DRAWING

• Orthographic projections - Projection of lines, planes and solids, section of primary solids such as pyramids, cones, cylinder, prism, sphere, cuboids, etc.

#### UNIT-III (25 Hrs)

#### ISOMETRIC DRAWING

• Isometric projection of all platonic solids such as cube, cuboids, hexagonal prism, pyramids, cone and sphere etc. – isometric projection of singly and doubly curve surfaces.

#### RECOMMENDED BOOKS

- 1. Drawing A creative Process, Francis D.K. Ching, John Wiley Sons, New York
- 2. Geometrical drawing for art students, 2nd revised edition I.H.Morris, Orient Longman, Calcutta, 1995.
- 3. Architectural drafting and design, 4th edition Ernest R. Weidhaas, Allyn and Bacon, Boston, 1981
- 4. Building drawing, 3rd edition M G Shah, C M Kale, Tata Mcgraw Hill publishing, New Delhi.

- 1. The examiner is required to set a total of six questions with two questions from each UNIT.
- 2. The student is required to attempt any one question from each UNIT making a total of three questions.

#### **HISTORY OF INTERIOR DESIGN - I**

Subject Code: BDIDS1-104 L T S P C Duration: 30 Hrs.

2 0 0 0 2

#### **COURSE PREREQUISITES**

Nil

#### COURSE OBJECTIVES

To provide the student of Interior Design knowledge on various developments in Interior design through ages.

#### **COURSE OUTCOME**

- 1. To help the student understand the designs from Prehistoric Period to the Middle Ages.
- 2. To know more on the Modern Movements in Interior design from the beginnings of 20th century.
- 3. To understand the different traditional contemporary art form with different tools and techniques
- 4. To explore the different ornaments and accessories in historic interiors
- 5. To appreciate various styles learnt through individual designs across diverse range of sources
- 6. To understand the role of decorative styles in history of architecture and interior design.

#### **UNIT - I (10 Hrs)**

#### EARLY CLASSICAL PERIOD

• Prehistoric Cave paintings – Primitive Designs- Interiors during Egyptian, Greek, Roman, Gothic, Early Christian & Renaissance Periods.

#### MIDDLEAGES

• Interiors in Romanesque, Gothic, and renaissance periods

#### UNIT - II (10 Hrs)

#### **COLONIAL TO THE BEGINNING OF THE 20TH CENTURY**

• Colonial, Victorian designs, Arts & Crafts movement, Art Nouveau, Eclectism, Frank Lloyd Wright.

#### UNIT - III (10 Hrs)

#### **BAUHAUS TO POST WAR MODERNISM**

• Walter Gropius/ Bauhaus, De Stijl, Mies Van Der Rohe, Le Corbusier, Art Deco, Postwar Modernism.

#### RECOMMENDED BOOKS

- 1. Interior Design Course, Mary GilliatCoyran, Octopus Ltd., London
- 2. Interior Design & Decoration, SherrilWhiton, Prentice Hall
- 3. Interior Design, Francis D.K. Ching, John Wiley & Sons, New York
- 4. History of Architecture, Sir Banister Fletcher, CBS Publishers & distributors, New Delhi
- 5. Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York.

#### INSTRUCTIONS TO THE PAPER SETTER

- 1. One compulsory question containing 6 questions of 2 marks (12 marks), each requiring short answers, are to be set from the entire syllabus.
- 2. The examiner is required to set another six questions (two from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

#### **ELEMENTS OF INTERIOR SPACE**

Subject Code: BDIDS1-105 L T S P C Duration: 30 Hrs.

1 0 1 0 2

#### **COURSE PREREQUISITES**

Nil

#### **COURSE OBJECTIVES**

To develop an understanding of point, line & planar elements in defining an interior space.

#### COURSE OUTCOME

- 1. To develop an understanding of various degrees of enclosure, various types of relationship between spaces.
- 2. Understanding of the various effects that could be created by manipulating the enclosing elements such as walls, roof etc.
- 3. Understanding the types of the door and their implementations.
- 4. Knowing about the detailing doors and windows
- 5. Understanding on site construction work.
- 6. Knowing about the detailing types of walls, roofs and floors.

#### UNIT-I (10 Hrs)

#### WALL PLANES

Use of wall planes to create architectural effects - Natural patterns and textures obtained in masonry walls – articulation of openings in wall planes – effect of tilting the vertical axis of wall planes - niches and alcoves - cornices and mouldings etc.

#### **ROOF PLANES**

Different types and their visual impact – articulation of skylights and roof apertures – false ceiling – materials, finishes & patterns - types of false ceiling – various types of lighting.

#### FLOOR PLANES

Various types of flooring – mosaic, tile, stone etc. – aesthetic effects created by flooring material and pattern - graphic patterns and their visual effects – construction details – skirting, moulding, embossing etc. Floor finishes and floor coverings.

#### UNIT - II (10 Hrs)

#### DOORS, WINDOWS AND VENTILATORS, ETC.

Doors – types – flush doors, panelled doors, braced doors, carved wooden doors, metal embossed doors, glazed doors and their relevance – various materials and articulation.

Windows – various types (casement, horizontal sliding, vertical sliding, hopper, pivoted) – various shapes (arched, circular, triangular etc.) various materials (wood, aluminum, steel, PVC) and their suitability to that space – ventilators – louvered, paneled etc.

#### UNIT - III (10 Hrs)

#### **CASE STUDIES**

Case studies for manipulation of wall, floor and roof planes to create various architectural effects – case studies of various doors, windows and ventilators – case studies of columns, beams etc. for interior effects.

#### RECOMMENDED BOOKS

- 1. The making of interiors An introduction- Allen Tate- Harper & Row Publishers, New York, 1987.
- 2. Interior Design & Decoration, Fourth Edition, Sherrill Whiton- Prentice Hall, 1974.
- 3. Interior lighting for Designers, Third edition Gary Gordon & Jamco L. Nuckolls John Wiley & Sons, New York, 1995.

4. The Encyclopaedia of Decorative Styles – William Hardy & Steve Adams – New Burlington books, London, 1988.

#### INSTRUCTIONS TO QUESTION PAPER SETTER

- 1. One compulsory question containing six questions of 2 marks (12 marks), each requiring short answers, are to be set from the entire syllabus.
- 2. The examiner is required to set another six questions (two from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

## MRSPTU

#### **MODEL MAKING**

Subject Code: BDIDS1-106 L T S P C Duration: 30 Hrs.

0 0 0 2 1

#### **COURSE PREREQUISITES**

Nil

#### **COURSE OBJECTIVES**

To introduce the students basics of Model making with various materials.

#### COURSE OUTCOME

- 1. Understand basic carpentry techniques.
- 2. Knowledge of Joinery techniques and various model making techniques.
- 3. Understand methods using different materials.
- 4. Tools used in carpentry.
- 5. Model making techniques using different materials.
- 6. Methods of Preparations of Model

#### UNIT-I (10 Hrs)

#### INTRODUCTION TO MODEL MAKING

Introduction to concepts of model making and various materials used for model making

#### **BLOCK MODELLING**

- Preparation of base for models using wood or boards
- Introduction to block models of buildings (or 3D Compositions) involving the usage of various materials like Thermocol, Soap/Wax, Boards, Clay etc.

#### **DETAILED MODELLING**

- Making detailed models which include the representation of various building elements like Walls, Columns, Steps, Windows/glazing, Sunshades, Handrails using materials like Mount board, Snow-white board, acrylic sheets.
- Representing various surface finishes like brick/stone representation, stucco finish etc.
- Various site elements Contour representation, Roads/Pavements, Trees/Shrubs, Lawn, Water bodies, Street furniture, Fencing etc.

#### UNIT - II (10 Hrs)

#### INTERIOR MODELS OF INTERIOR SPACES

Making scaled models of the various interior spaces with furniture such as

1) Residences 2) Offices 3) Retail Spaces 4) Recreational Spaces

UNIT – III (10 Hrs)

#### **CARPENTRY**

Introducing techniques of planning, chiselling & joints in timber to learn the use of hand tools. Exercise involving the design of simple furniture and making a model of the same.

#### **RECOMMENDED BOOKS**

- 1. BENN, The book of the House, Ernest Benn Limited, London
- 2. Jannsen, Constructional Drawings & Architectural models, Karl Kramer Verlag Stuttgart, 1973.
- 3. Harry W.Smith, The art of making furniture in miniature, E.P.Duttor Inc., New York, 1982.
- 4. H.S. Bawa, 'Carpentry- A Complete Guide',
- 5. Miller, 'Carpentry and Construction'

NOTE: Evaluation is to be done through viva voce by external examiner appointed by the University at collage level. Answer sheets after the University exam shall be retained at collage level for the viva-voce.

#### DRUG ABUSE: PROBLEM, MANAGEMENT AND PREVENTION

Subject Code: BMNCC0-041 L T P C Duration: 30Hrs.

2 0 0 0

#### **UNIT-I (6 Hours)**

Meaning of Drug Abuse: Meaning: Drug abuse, Drug dependence and Drug addiction. Nature and extent of drug abuse in India and Punjab.

#### **UNIT-II (8 Hours)**

Consequences of Drug Abuse: Individual: Education, Employment, Income. Family: Violence. Society: Crime. Nation: Law and Order problem.

#### **UNIT-III (8 Hours)**

Prevention of Drug Abuse: Role of Family: Parent-child relationship, Family support, supervision, shipping values, active scrutiny. School: Counselling, Teacher as role-model, Parent-teacher-health professional coordination, Random testing on students.

#### **UNIT-IV (8 Hours)**

Treatment and Control of Drug Abuse: Medical Management: Medication for treatment and to reduce withdrawal effects. Psychological Management: Counselling, Behavioural and Cognitive therapy. Social Management: Family, Group therapy and Environmental intervention. Treatment: Medical, Psychological and Social Management. Control: Role of Media and Legislation.

#### **Recommended Books:**

- 1. Ram Ahuja, 'Social Problems in India', Rawat Publications, Jaipur, 2003.
- 2. 'Extent, Pattern and Trend of Drug Use in India', Ministry of Social Justice and Empowerment, Govt. of India, 2004.
- 3. J.A. Inciardi, 'The Drug Crime Connection', Sage Publications, Beverly Hills, 1981.
- 4. T. Kapoor, 'Drug Epidemic among Indian Youth', Mittal Publications, New Delhi, 1985.
- 5. Kessel, Neil and Henry Walton, 'Alcoholism, Harmond Worth', Penguin Books, 1982.
- 6. Ishwar Modi and Shalini Modi, 'Addiction and Prevention', Rawat Publications, Jaipur, 1997.
- 7. 'National Household Survey of Alcohol and Drug Abuse', Clinical Epidemiological Unit, All India Institute of Medical Sciences, New Delhi, 2003 & 2004.
- 8. Ross Coomber and Others, 'Key Concept in Drugs and Society', Sage Publications, New Delhi, 2013.
- 9. BhimSain, 'Drug Addiction Alcoholism, Smoking Obscenity', Mittal Publications, New Delhi.1991.
- 10. Ranvinder Singh Sandhu, 'Drug Addiction in Punjab: A Sociological Study', Guru Nanak Dev University, Amritsar, 2009.
- 11. Chandra Paul Singh, 'Alcohol and Dependence among Industrial Workers', Shipra, Delhi, 2000.
- 12. S. Sussman and S.L. Ames, 'Drug Abuse: Concepts, Prevention and Cessation', Cambridge University Press, 2008.
- 13. P.S. Verma, 'Punjab's Drug Problem: Contours and Characteristics', Vol. LII, No. 3, P.P. 40-43, Economic and Political Weekly, 2017. 1
- 14. 'World Drug Report', United Nations Office of Drug and Crime, 2016.
- 15. 'World Drug Report', United Nations Office of Drug and Crime, 2017.

# 2<sup>ND</sup> SEMESTER

#### INTERIOR DESIGN STUDIO – II

Subject Code: BDIDS1-201 L T S P C Duration: 90 Hrs.

2 0 4 0 6

#### **COURSE PREREQUISITES**

Nil

#### **COURSE OBJECTIVES**

To introduce the basics of designing for Residential interiors and to develop skills required for the same.

#### **COURSE OUTCOME**

- 1. To develop understanding of the scale, function and options existing when designing small-scale spaces in residences such as toilets, kitchens, living, bedrooms etc.
- 2. Development of ideas with regard to false ceiling, wall paneling, flooring, floor coverings, curtains, windows, doors and other elements of residential interiors.
- 3. To understand and create spaces of comfort and spatial quality
- 4. To understand and do a technical drawing of kitchen & toilet related elements and storages.
- 5. To be able to choose the desired finishes and materials for the design based on their technical attributes.
- 6. To understand and do a technical drawing of Residential related interiors & furniture.

#### **UNIT-I (30 Hrs)**

#### **KITCHENS**

• Work triangle, planning for activity – anthropometrics – types of kitchen- Modular kitchens. Materials used in counters, shelves, worktops, washing areas & their comparative study. Lighting & color scheme – Natural & Artificial light.

#### TOILETS

Anthropometry – various types of sanitary ware and their use – types of layouts – concepts in modern day toilet interiors – materials & finishes – colour, texture & pattern.

#### UNIT-II (30 Hrs)

#### **BEDROOMS & LIVING ROOMS**

• Concepts in bedroom & living room interiors – various layouts of these spaces – the use of furniture and accessories to create a certain type of ambience – materials & finishes – lighting, colour & texture.

#### UNIT-III (30 Hrs)

#### RESIDENCE

• Holistic concepts in residential interiors – ability to integrate various individual spaces into one theme – treatment of patios, courtyards, verandahs & other semi sheltered spaces – integration of built form and open spaces.

#### RECOMMENDED BOOKS

- 1. Designs for 20th century Interiors Fiona Leolie, VH Publications, London, 2000.
- 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.

#### INSTRUCTIONS TO QUESTION PAPER SETTER

- 1. One compulsory question is to be set from the entire syllabus.
- 2. The topic of the project is to be displayed on College / Institute Notice Board ten days in advance.

#### NOTE:

- 1. Evaluation is to be done through viva voce by external examiner appointed by the university at college level. Answer sheets after the university exam shall be retained at college level for the viva-voce.
- 2. The topic of the project is to be displayed on collage/Institute notice board ten days in advance.

## MRSPIU

#### **MATERIALS AND CONSTRUCTION-II**

Subject Code: BDIDS1-202 L T S P C Duration: 75 Hrs.

2 0 3 0 5

#### **COURSE PREREQUISITES**

Nil

#### **COURSE OBJECTIVES**

To familiarize the students of Interior Design on material and construction methodology

#### **COURSE OUTCOME**

- 1. To understand the construction of basic elements of an interior space such as walls & partitions, floors & roofs.
- 2. To understand in detail about the types and use of partitions and false ceilings in interior construction industry.
- 3. Understanding the process of building construction from the very first step.
- 4. Knowing about the detailing types of roofs and floors.
- 5. Understanding various color schemes, lighting, textures, etc. in Interior design
- 6. Understanding the materials and techniques used in Interior design

#### UNIT-I (25 Hrs)

#### **BUILDING COMPONENTS**

Drawings of the components of a building indicating

- Foundation brick footing, stone footing & RCC column footing
- concrete flooring, plinth beam & floor finish
- superstructure- brickwork with sill, lintel, windows & sunshade
  - Flat RCC roof with weathering course, parapet & coping.

#### **FLOORS**

Floor coverings- - softwood, hardwood- resilient flooring - linoleum, asphalt tile, vinyl, rubber, cork tiles - terrazzo, marble & granite - properties, uses & lying.

Floor tiles- ceramic glazed, mosaic and cement tiles- properties, uses and laying, details for physically handicapped.

#### UNIT-II (25 Hrs)

#### **FALSE CEILING**

Construction of various kinds of false ceiling such as thermocol, plaster of Paris, gypsum board, metal sheets, glass and wood Construction of domes, vaults, & other special ceilings

#### WALL PANELING

Panelling – Using wooden planks, laminated plywood, cork sheets, fibre glass wool & fabric for sound insulation and wall panelling for thermal insulation.

#### UNIT-III (25 Hrs)

#### **FINISHES**

Paints- enamels, distempers, plastic emulsions, cement based paints- properties, uses and applications- painting on different surfaces – defects in painting, clear coatings & strains-varnishes, lacquer, shellac, wax polish & strains- properties, uses and applications. Special purpose paints- bituminous, luminous, fire retardant and resisting paints- properties, uses and applications.

#### RECOMMENDED BOOKS

- 1. S.C Rangwala engineering materials Charotar publishing, Anand 1982
- 2. W.B Mckay, building construction, VOL 1-4, Longmans, U.K 1981
- 3. Laxmi publications Pvt. Ltd., New Delhi, 1993.
- 4. Dr. B.C Purnima, building construction, Laxmi publications Pvt. Ltd., New Delhi, 1993.

#### INSTRUCTIONS TO QUESTION PAPER SETTER

1. The examiner is required to set a total of six questions with two questions from each UNIT.

2. The student is required to attempt any one question from each UNIT making a total of three questions.

## MRSPTU

#### **Manual Graphics – II**

Subject Code: BDIDS1-203 L T S P C Duration: 75 Hrs.

2 0 3 0 5

#### **COURSE PREREQUISITES**

Nil

#### COURSE OBJECTIVE

Students should acquire knowledge of the various drawings, which effectively communicate their designs.

#### **COURSE OUTCOME**

- 1. To understand the spatial and stylistic qualities associated with design and creativity.
- 2. To understand the purpose of shadows in buildings and in interiors
- 3. To enable a student to understand the theory of perspective in design
- 4. Visualize and convert his/her thoughts and ideas of design into 3-D forms.
- 5. Sciography in plans and elevations.
- 6. Construction of Interior perspectives.

#### UNIT-I (25 Hrs)

#### MEASURED DRAWING

Measured Drawing of Simple objects like Cupboards etc. and building components like Columns, Cornices, Doors, Windows etc.

#### **ISOMETRIC**

Isometric View: like Tables, Chairs, Cylindrical & Spherical elements etc.

Axonometric View: like Interior views for living room, Toilet, Dining Room etc.

#### UNIT-II (25 Hrs)

#### **PERSPECTIVE**

Perspective View: Principles and Visual Effect of three dimensional objects, Study of Picture plane, Station Point, Vanishing Point, Eye level etc. One-point perspective for interiors Two-point perspective for interiors.

#### UNIT-III (25 Hrs)

#### **SCIOGRAPHY**

Sciography: Principles of Shade and Shadow- Shade and Shadows of Architectural Elements in Interiors. Shadows of Circular/Cylindrical/Spherical elements.

#### RECOMMENDED BOOKS

- 1. Perspective & Sciography BY Shankar Mulik, Allied Publishers
- 2. Perspective Principles, M.G. Shah & K.M. Kale, Asia Publications, Mumbai
- 3. Geometrical drawing for Art students, I.H. Morris, Orient Longman, Chennai
- 4. N.D. Bhatt, 'Engineering Drawing'
- 5. Ching Franc D.K., 'Architectural Graphics'.
- 6. Robert W. Gill, 'Rendering with Pen and Ink', Thames & Hudson London, 2008.

- 1. The examiner is required to set a total of six questions with two questions from each UNIT.
- 2. The student is required to attempt any one question from each UNIT making a total of three questions.

#### THEORY OF INTERIOR DESIGN

Subject Code: BDIDS1-204 L T S P C Duration: 30 Hrs.

2 0 0 0 2

#### **COURSE PREREQUISITES**

Nil

#### **COURSE OBJECTIVES**

The object of this course is to make students understand the various aspects such as spatial quality, design vocabulary, design principles, and design process related to the design of interiors.

#### **COURSE OUTCOME**

- 1. Understanding various aspects such as form, scale, light, dimension, height, transitional elements etc. affecting interior space.
- 2. Understanding and applying design vocabulary such as Point, Line, shape, color, texture, area, mass, volume etc.
- 3. Understanding and applying design principles such as ratio, proportion, scale, balance, harmony, unity, variety, rhythm, emphasis.
- 4. Understanding the process involved in design including analysis, synthesis and evaluation.
- 5. To analyze and identify the anthropometrics and ergonomics in daily life
- 6. To understand and analyze the stress factors on human body in various tasks

#### **UNIT - I (10 Hrs)**

#### INTERIOR SPACE

Space – definition; Interior space – spatial qualities: form, scale, outlook; structuring space with interior design elements; spatial form; spatial dimension – square, rectangle, curvilinear spaces; height of space; spatial transitions – openings within wall planes, doorways, windows, stairways.

#### UNIT - II (10 Hrs)

#### **DESIGN VOCABULARY**

Form – point, line, volume, shape, texture & colour – in relation to light, pattern etc. and application of the same in designing interiors.

#### **DESIGN PRINCIPLES**

Ratio; proportions – golden section; relationships; scale; Balance – symmetrical, radial, occult; harmony; unity; variety; rhythm; emphasis.

#### UNIT – III (10 Hrs)

#### **ANTHROPOMETRICS**

Definition, theory of standard dimension based on human figures for activities, functions, circulation, furniture design, spatial requirements etc.

Study of Ergonomics

Design of Furniture for Living, Dining, Kitchen, Office etc.

#### **DESIGN CONTROL**

Design process – Analysis, synthesis, design evaluation; Design criteria – function and purpose, utility and economy, form and style; human factors - human dimensions, distance zones, activity relationships; fitting the space – plan arrangements, function, aesthetics.

#### RECOMMENDED BOOKS

- 1. Francis. D. K. Ching, Interior design Illustrated, Van Nostrand Reinhold
- 2. John. F. Pile, Interior Design, Harry Abrams Inc.
- 3. Sam. F. Miller, Design process a primer for Architectural and Interior Design, Van Nostrand Reinhold.
- 4. Gary Gordon, Interior lighting for designers, John Wiley & Sons Inc.
- 5. Harold Linton, Colour in Architecture, McGraw Hill

- 6. Jonathan Poore, Interior Colour by Design, Rock Port Publishers.
- 7. Sherrill Winton, Interior Design and Decoration, Prentice Hall.
- 8. JohannessItten, the Art of Colour, John Wiley and Son

#### INSTRUCTIONS TO THE PAPER SETTER

- 1. One compulsory question containing 6 questions of 2 marks (12 marks), each requiring short answers, are to be set from the entire syllabus.
- 2. The examiner is required to set another six questions (two from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

## MRSPTU

#### **DIGITAL GRAPHICS - I**

Subject Code: BDIDS1-205 L T S P C Duration: 75 Hrs.

1 0 0 4 3

#### **COURSE PREREQUISITES**

The students should have cleared Soft Skill Development course.

#### **COURSE OBJECTIVES**

The students should be made aware of the role and importance of Computers in the field of Interiors.

#### **COURSE OUTCOME**

- 1. Student shall be able to understand the use of Computer as an aid to drafting and presentation of Interior design projects.
- 2. To understand the basic components of operating on menu and setup wizard
- 3. To work on drafting a plan with dimensioning and layers
- 4. To understand the various tools on Photoshop
- 5. Advanced commands like layers, viewports, layer-Iso and other 2D commands.
- 6. To understanding 3-D Modeling on Auto cad

UNIT-I (25 Hrs)

#### 2-D AUTOCADD:

- 1. Advanced Introduction to Auto Cad, and Introduction to Auto Cad Revit
- 2. Advanced commands like layers, viewports, layer-iso and other 2D commands.
- 3. Drafting the complex and multi storied Plans, Sections, and Elevations.
- 4. Text writing and dimensioning of the Plans, Elevation and Sections

UNIT-II (25 Hrs)

#### **3-D AUTOCADD:**

- 1. Advanced rendering in the Auto Cad
- 2. 3-D Modeling on Auto cad of Single Storey and Multi Storey Buildings,
- 3. 3-D Modeling of Multiple Building in a Single Site, Camera View of the Buildings.

#### UNIT- III (25 Hrs)

#### BASICS OFADOBE PHOTOSHOP

Tool box (Moving, marquee tool), Magic ward selection, Crop tool, Paint Brush, Opacity, Tent Styles, Blue tool, Sharpening Tool, Color correction, Layers, moving Tool, Masking Tool.

#### INSTRUCTIONS TO QUESTION PAPER SETTER

The evaluation of student shall be based on the written questions to be set from the course and the practical conducted based on a specific problem given to assess and evaluate the knowledge of students related to course defined above.

#### **UNIVERSAL HUMAN VALUES -II**

Subject Code: BHSMC0-026 L T S P C Duration: 30 Hrs.

20003

#### **COURSE PREREQUISITES**

Nil

#### COURSE OBJECTIVES

This course is intended to provide a much needed orientation input in value education to the young enquiring minds.

#### **COURSE OUTCOME**

- 1. To help the students appreciate the essential complementarily between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- 2. To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way.
- 3. To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behavior and mutually enriching interaction with Nature.

#### UNIT I (Hrs.)

**Introduction to Value Education Lecture:** Understanding Value Education, Self-exploration as the Process for Value Education, Continuous Happiness and Prosperity – the Basic Human Aspirations, Right Understanding, Relationship and Physical Facility, Happiness and Prosperity – Current Scenario, Method to Fulfil the Basic Human Aspirations

#### UNIT II (Hrs.)

**Harmony in the Human Being:** Understanding Human being as the Co-existence of the Self and the Body Lecture 8: Distinguishing between the Needs of the Self and the Body, The Body as an Instrument of the Self, Understanding Harmony in the Self, Harmony of the Self with the Body, Programme to ensure self-regulation and Health

#### UNIT III (Hrs.)

**Harmony in the Family and Society:** Harmony in the Family – the Basic Unit of Human Interaction, Values in Human-to-Human Relationship, 'Trust' – the Foundational Value in Relationship, 'Respect' – as the Right Evaluation, Exploring the Feeling of Respect, Understanding Harmony in the Society, Vision for the Universal Human Order

#### UNIT IV (Hrs.)

**Harmony in the Nature/Existence:** Understanding Harmony in the Nature, Interconnectedness, self-regulation and Mutual Fulfilment among the Four Orders of Nature, Realizing Existence as Co-existence at All Levels, The Holistic Perception of Harmony in Existence

Implications of the Holistic Understanding – A Look at Professional Ethics: Natural Acceptance of Human Values, Definitiveness of (Ethical) Human Conduct, A Basis for Humanistic Education, Humanistic Constitution and Universal Human Order, Competence in Professional Ethics, Holistic Technologies, Production Systems and Management ModelsTypical Case Studies, Strategies for Transition towards Value-based Life and Profession

#### **SUGGESTED READINGS:**

#### **Text Book and Teachers Manual**

 The Textbook A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1 2. The Teacher's Manual Teachers' Manual for A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978- 93-87034-53-2 3.2

#### RECOMMENDED BOOKS

- 1. Jeevan Vidya: Ek Parichaya, A Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999.
- 2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004.
- 3. The Story of Stuff(Book).
- 4. The Story of My Experiments with Truth by Mohandas KaramchandGandhi
- 5. Small is Beautiful E. F Schumacher.
- 6. Slow is Beautiful Cecile Andrews
- 7. Economy of Permanence J CKumarappa
- 8. Bharat Mein Angreji Raj PanditSunderlal
- 9. Rediscovering India by Dharampal
- 10. Hind Swaraj or Indian Home Rule by Mohandas K. Gandhi
- 11. India Wins Freedom Maulana Abdul Kalam Azad
- 12. Vivekananda Romain Rolland (English)
- 13. Gandhi Romain Rolland (English

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