

## **Design Fundamentals (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours;24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Show Clearances required for living & Bedrooms with the help of 2D Drawings; Typical Plan and cross section wall; Anthropometrics- human Anatomy and Interior decoration; Proportions of male and female body; Spatial Definition, Enclosures, Transitions, Emphasis; Plan, Elevation, section of a living room;
2. Mention flooring and material specification and floor coverings; Tile, Granite, marble, wooden flooring, carpet; wall to wall carpet, area rugs. Furniture: Sofa Set, Centre Table, Chairs, T.V. Unit, Showcase Unit, Wall Panel. Plan, Elevation, Section of a Bedroom
3. Master Bedroom with attached Toilet: Mention flooring and material specification and floor coverings; Tile, Granite, marble, wooden flooring, carpet; wall to wall carpet, area rugs. Furniture: King Size Cot, @ side Tables , Study Table, and Chair, Dressing Table, Wardrobe, Wall Panels, Trundle Bed, Footer Bed
4. Children's Bedroom: Mention flooring and material specification and floor coverings; Tile, Granite, marble, wooden flooring, carpet; wall to wall carpet, area rugs. Furniture: Crib; Study table and chair; Twin Beds; Wardrobe, Show Unit, Wall Panel, Customized Beds

### **REFERENCES:**

1. Time Savers Standard for Interior (2001) designer McGraw Hill New York.
2. Francis Ching- Architecture Forms, Space & Order (1979)
3. Interior Design Principles & practice(2005) Rao Pratap M
4. The National Building Code(2000), IS Publications, India

## **Building Materials Collection (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Collect Flooring materials: - Tile : Ceramic Tile, Vitrified Tile, Terracotta Tile, brick and Interlocks, Marble Flooring, Granite Flooring, Wooden flooring ,Glass flooring, P.V.C Flooring, Rubber Flooring, vinyl flooring, linoleum flooring.
2. Collect doors & windows hardware like locks closers, latches, door pulls, door stops, hinges, door kick, push plates, door knobs, levers, electronic entry systems.
3. Collect Roofing materials:-Roof Tile and its types, Roof Sheets- Aluminum sheet, PVC Sheet, Cement Sheet, Mention their Advantages.
4. Collect partition wall, materials and stud; brick, plywood, glass, metal, Fibre, Aluminum, steel, pre- caste cement slab, Hinges, Frames; Wood, aluminum, metal, cement, nails and bolt.

### **NOTE:**

Thorough detailed study with all mentioned materials, its cost, advantages, disadvantages, applications.

### **REFERENCES:**

1. Dr B.C Punmia – Building Construction 2016
2. R. Chudley – Building Construction Handbook- BLPD, London 1990

## **Rendering(Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Drawing and rendering, Freehand Drawing and rendering of human forms, landscape, interior colleague
2. Definition of various forms of design- Architecture, Interior, graphic, etc. Art and design materials and processes.
3. Presentation Techniques, Techniques of rendering with pen and ink – graphical representation of buildings and entourage such as trees, lawns, shrubs, paving, pathway, flower bed, water cools, Human figures, vehicles, Etc.
4. Exposure to other medium of presentation- pencil and water colours, use of Colour in presentation.
5. Topic are as follows: Living room; Dining room; Master Bedroom; Kids Bedroom; Kitchen; Reception.

### **REFERENCES:**

1. Maitland Graves, The Art of Color and design, Mc Graw Hill Book Co. Inc. 1951 2<sup>nd</sup> edition
2. Edward D Mills- Planning the architects handbook- bitter worth London 1985

## **I Semester Elective 1: Lighting**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

**Each unit: 6 Hours**

### **UNIT I**

Definition of Lighting ; Types of Lighting; Types of Lighting; Natural Lighting, Artificial Lighting, Significance of Lighting ; to complete the work; to enhance and support. Functions of Lighting; Selective Visibility Revelation of Form; Effective Motivation; Adding Dramatic and Realistic moods.

### **UNIT II**

Principles of lighting :Designing the Lighting System; Determination of Desired light level for task; performance of a light for a given space; Distribution of light, quality Factor, Design Choice, Colour and glare, aesthetics and safety, Managing the lighting system; effective lighting at lowest operating and maintenance cost.

### **UNIT III**

Types of Lighting; ambient lighting; accent Lighting, task lighting. Mention their uses in interiors. Lighting Fixtures for ceiling; Recessed Lighting, chandeliers, cove lighting, incandescent lighting , fluorescent lamp, indirect lighting, system such as table lamp and touchier lamp.

### **UNIT IV**

Lighting fixtures for wall; fluorescent lamp, incandescent lamp, picture lighting cinder cabinet lighting; pendant lighting; table lamp; Desk Lamp or Standing Lamp, wall sconces; Recessed Lighting and Track Lighting

### **REFERENCES:**

1. Lighting Design Basics, Mark Tarlin 2003.
2. Interior By Ahamad A Khasu 2018
- 3 Light Sources, Spiros Kipsenelis 2017

## **Elective 2: Tools for Home Décor**

Duration of Exam: 2 hr

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

**Each unit: 6 Hours**

### **UNIT I**

Introduction to designer's tool. Guidelines for using tool kit. Importance of tools. Advantages of Tools and equipment's

### **UNIT II**

Types of Materials: Drafting sheets, Vellum Drafting paper, textured sheets, tracing paper, pencil, crayons, pen and ink, charcoal, scale, Paper Scale, Compass, Eraser, Set-squares, Architectural Scale, T-Scale, Triangular Scale, Scotch Tape, Canvas Bag, Gloves, and Spectacles. Mention Its Uses and using techniques. Swatches: choices for paint, furniture, fabrics, wallpapers, to understanding the design concept between designer and client.

### **UNIT III**

Types of tools: Box Cutter, Multi- Purpose Laser level, Furniture moving pads, furniture blanket, Monofilament Line, Different types of measuring tapes; Manual Measuring tape and laser distance measures, picture hanging kit, project calculator, spray cleaner, Scissors, Cutting Pliers.

### **UNIT IV**

Electrical tools and Equipment's:- Drafting table, Minidrafts, Drafting Chairs or Stool, Computer table, electrical sharpener,, computer smartphone, tablet, to download app to show 2D and 3D drawings to sketch, capture Colour, draft floor plan, organize client file, Three dimensional furnishing interior photos, vibrator, Driller.

### **REFERENCES:**

1. Tools, Steve Dodds, Jan! 2005'
2. The Tool Book, Nick Offerman, April 3 2018
3. Tools and How to Use them Alber Jackson and David Day 1978

## **Elective -3: Work Shop Calculations**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

**Each unit: 6 Hours**

### **UNIT I**

Workshop Calculations: Conversion of cm to mm; conversion from mm to cm; conversion from ft to inch; conversion from inches to ft; conversion from cm to inches; conversion from m to Ft ; conversion from inches to m ; conversion from inches to cm, conversion from ft to m

### **UNIT II**

Materials Used: Triangular scale; paper scale; T-scale; Set Square; Measuring Tape; Paper Cutter; Compass; Mechanical pencil, Colour Pencil, Scale

### **UNIT III**

Studying of each conversions for the purpose of increasing or decreasing, the measurements for drafting of Interior Design, Drawings.

### **UNIT IV**

Exercising at least 4 conversions each for particular calculations on various scales based on the given task.

### **REFERENCES:**

1. Workshop Calculations and Science , Kapil Dev , 2010
2. Workshop Calculus, Nancy Baxter Hastings, 1996

# **Interior Design Skills**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks:20

## **UNIT I**

Closed & open, Ideal lay out, Areas of activity- Group, Space, Private space, support space  
Traffic lanes, extended space, Organization of space, Basic steps to be followed for the space design

## **UNIT II**

Centralized organization, Linear Organization, Radial Organization, Clustered Organization, Grid Organization

## **UNIT III**

Data Collection Existing, Requirement-Active, Furnishing, Dimensional Analysis Active  
Analysis, Furnishing, space, dimensional, desired relationship, desired qualities Synthesis

## **UNIT IV**

Selection of Parts, Generate Ideas Evaluation Comparison of Alternatives Execution  
Incorporating changes, Completion of work

## **REFERENCES:**

1. Design Basics – David Lauer (1999)
2. Principles of Colour Composition- Wucius Wong(1996)
3. Time Saver Standards for interior Design – Chiara De Joseph(1992)
4. Interior Design – Ahmed A Khasu (2018)

# II Semester

## Color, Patterns and Fabric

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

### **UNIT I**

Floor furnishings materials: meaning of floor furnishing materials uses of floor furnishing materials, different types of floor furnishing materials, different types of floor furnishing materials; Vinyl, linoleum, wooden strips, epoxy resin, carpet, area carpet wall-to-wall carpet. Materials: Briefly study each material, Installation of floor furnishings materials and mention its merits and demerits.

### **UNIT II**

Rugs & Dhurries; Meaning of Rugs, Types of rugs; rugs for different areas, dimensions of rugs; cleaning of rugs. Meaning of Dhurries; types of Dhurries. Explain different types of rugs & Dhurries and uses of Dhurries in interiors.

### **UNIT III**

Sunshades & upholstery:- meaning of sunshades, uses of sunshades, different types of sunshades; Screens, Curtains; different curtain , different curtain types, curtain styles, windows , blinds, types of window blinds , different Materials of window blinds , meaning of Upholstery, different, types of upholstery materials, upholstery for commercial and residential purposes.

### **UNIT IV**

Wall Furnishing Materials: Meaning of Wall furnishing; different types of wall furnishing materials Distemper ,French polish ,varnish, spirit, polish; paint& oil paint; wallpaper; wall sheet; study the difference between wallpaper & wall sheet, mention its merits and demerits , care and maintenance of walls furnishing materials

**REFERENCES:** 1. Interior Design and Decoration By- Premavathy Seetharam & Praveen Pannu (2009)  
2. Elements of Style- Erin Gates (2014) 3. Interior Design Course – Tom Rise Tacos (2006)



## Engineering Drawings-II

Duration of Exam:3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

### **UNIT I**

Projection of plane surfaces: - Definition of a Plane Surfaces, location of plane surfaces, True shape of plane surfaces

Method of Solving problems of different plane surfaces like triangular lamina, Square lamina, rectangular lamina, pentagonal lamina, hexagonal lamina, Circular lamina, etc.

### **UNIT II**

Projection of solids:- Definition of a Solids , Classification of Solids, Prisms, Pyramids, Visibility, Rule of Visibility, Projection of Solids in different positions

Method of Solving problems of different solids like triangular prism, Square prism, rectangular prism, pentagonal prism, hexagonal prism, triangular pyramid Square pyramid, rectangular pyramid, pentagonal pyramid, hexagonal pyramid, Cylinder and Cone and Combined Objects.

### **UNIT III**

Section of solids:- Definition of a Plane Surfaces , True shape of Section, Section Plane parallel to VP and perpendicular to both HP and VP, Plane parallel to HP and perpendicular to VP, Section Plane inclined to HP and perpendicular to VP. Position of section plane surfaces,

Method of Solving problems by section plane cutting at different position(height) of axis of different solids like triangular prism, Square prism, rectangular prism, pentagonal prism, hexagonal prism, triangular pyramid Square pyramid, rectangular pyramid, pentagonal pyramid, hexagonal pyramid, Cylinder and Cone

### **UNIT IV**

Development of solid surfaces: - Definition of a Development of Plane Surfaces, Parallel line development Section Plane parallel to VP and perpendicular to both HP and VP, Plane parallel to HP and perpendicular to VP, Section Plane inclined to HP and perpendicular to VP. Position of section plane surfaces,

Development of Solids problems by without section plane cutting and section plane cutting at different position (height) of axis of different solids like triangular prism, Square prism, rectangular prism, pentagonal prism, hexagonal prism, triangular pyramid Square pyramid, rectangular pyramid, pentagonal pyramid, hexagonal pyramid, Cylinder and Cone

**REFERENCES:** Engineering Drawing by Kapil Dev(2017)      Engineering Drawing by N.D Bhat (2012)      Engineering Drawing by K R Gopala Krishnan (2014)      Interior Design by Ahamad A Kasu (2018)

## **Interior Design Skills (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Design interior for: Different Types of kitchen ;( Straight Line Kitchen, U Shape kitchen, L Shaped kitchen, gallery kitchen, island kitchen application of Work Triangle in Kitchens
2. Application of Work Triangle in Kitchen, along with material recommended for kitchen interior design. Interior for Dining Room;
3. Mention Flooring and material, specification and floor coverings: - Tile, Granite, Marble, wooden flooring, carpet; wall to wall carpet. Area Rugs
4. Dining Furniture: Dining Table, Dining Chair, Crockery Unit. Show the washbasin required for dining room.
5. Application of Utility area Designs in Various spaces.

### **REFERENCES:**

1. Design Basics – David Lauer (2004)    2. Principles of Colour Composition- Wucius Wong (1996)
3. Time Saver Standards for interior Design – Chiara De Joseph (1992)    4. Interior Design – Ahmed A Khasu (2018)

## **Fabric Collections (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS**

1. Carpets: Different types of carpets & materials, mention its types, uses, suitability, cost, installation procedure, cleaning care and maintenance, replacement of damaged piece
2. Rugs & Dhurries: Different types of rugs and Dhurries, Different materials, its uses in interiors, cost, cleaning care and maintenance.
3. Sun Shades: Different types of screening material, Uses of screening materials, meaning of curtains, types of curtains, different curtain materials, different curtain styles, cost, curtain hardware's, poles, rings, brackets, channels, care and maintenance, meaning of window blinds, its types, different materials of blinds, suitability to interior, care and maintenance, mention its cost .
4. Wall Treatment: Different types of wallpaper, installation procedure of wall paper, its uses, cleaning of wallpaper, care and maintenance of wall paper, mention its cost. Wall Sheet: Meaning of Wall sheet, Installation Procedure of wall sheet, its uses, Types of wall sheet, cleaning of wall sheet, Care and maintenance of wall sheet, cost of wall sheet. Charcoal Sheet: Uses of Charcoal sheet in interior, its installation procedure, cleaning, care and maintenance, cost of charcoal sheet.
5. False Ceiling Materials: Different types of false ceiling materials, Gypsum, POP, Plywood, Glass, Their construction procedure, care and maintenance, cost of each false ceiling along with anchoring

**Note: Do the market survey & find out the rates and make the report of the same in the file**

## **Interior Surveying (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Measurement of the areas of different shapes like square, rectangle, circular, triangular, semicircular, trapezoidal rhombus shapes
2. Documentation of Existing interior space of one residential, an office and a showroom by preparing following details, floor plan showing a all structural and architectural features without any interiors.
3. Material Specification and detailed dimensional details for all components of interiors like ;walls , flooring, ceiling, doors , windows and other openings, electrification with light fittings, Plumbing with sanitary fittings Furniture's, Indoor, Plants other Accessories Like Sculptures, Murals/ art, water Bodies etc.
4. Measuring a bedroom with attached Bathroom and Furniture Layout, Drafting it to scale, Judgment or analysis of a plan, concept of revised plan
5. Measuring a complete apartment drawing it to scale, Judgment and analysis of plan, concept of revised plan
6. Free hand Sketches of different views of room
7. Freehand Reduction or enlargement of Drawing

### **REFERENCES:**

1. Time Savers Standards for Building Types- Mc Graw Hill Book Co. 2018
2. Building Drawing- TATA Mc Graw Hill Publishing – Shah, Kale& Patki 1992
3. Neufert Ernst, 1970, Ernst Neufert, Architects data by Lockwood and sons, London

## Elective - 1: Professional practice

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **Each unit: 8 Hours**

#### **UNIT I**

Professional practice an introduction, Ways of professional practice, Types of good clients, types of bad clients, Difference between profession and business, Ways of getting works in business, Types of works in business contracts, Various Precautions to be taken before taking up the work,

#### **UNIT II**

Issues in Professional practice: Professional behavior, Ethics in works, contracts and its types- Labour ,lump sum, cost plus percentage, turnkey , Tenders and its types, Arbitration etc. Types of billing methods in business, Tax liabilities, Item rate study, Labor management.

#### **UNIT III**

Types of offices, requirements of good office, staff selection process, filling of records, Correspondence and drawings, Maintenance of accounts, types of Presentations in meetings, Procedure to record minutes of meetings, group discussion process, and introduction to Management information systems.

#### **UNIT IV**

Code of conduct for professionals, Relationship with other parties connected to works such as client, contractors, professionals, Architects, consultants, , Scale of charges, Units and mode of measurements, clerical work duties, inspection of work, Bill of quantities, schedule of rates, Primary knowledge of consumer protection act .

#### **REFERENCES:**

1. Namavathi K Rohan, Professional practice, 8<sup>th</sup> edition
2. Christine M Piotrowski, Professional practice for interior designers, 3<sup>rd</sup> edition
3. Ronald Vetch, Professional practice for interior designers , prguls publishers ltd 1987

## **Elective - 2: Furniture Furnishings**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **UNIT I**

Cushioning: Meaning of Upholstery, Upholstery Materials; Linen, Leather, Cotton, Rexin, Wool, Vinyl, Silk, Synthetic Fabrics like Acetate, Acrylic, Nylon, Olefin, Polyester, Rayon, Cleaning and Maintenance of Upholstery Materials.

### **UNIT II**

Duvet and Comforters: Meaning of Duvet and Comforters, Difference Between Duvet and Comforters, Materials used in Mattress, Blankets, Quilts, Duvets and comforters; Cotton, polyester, linen, silk, bamboo, rayon, olefin; cleaning and maintenance of Duvet and Comforter

### **UNIT III**

Table Coverings and Napkins: meaning of table coverings, Table pads and napkins. Purpose of table coverings, table pads and napkins. Best Fabrics for table cloth, natural fibre table cloths, cotton wool, silk, linen and synthetic materials such as, nylon, polyester, spandex.

### **UNIT IV**

Different types of table coverings such as Vinyl, plastic. Uses of Table Pads ; Kitchen table, Dining table, Buffets, Servers, Cocktail Table, Desks, Dressers, conference tables and cotton, different types of napkins, folding's, rectangular napkin, napkin ring, glass napkin, triangular napkin

### **REFERENCES:**

1. The complete book of soft furnishings, Rene Poulter, and Karen Coetzee, 2000.
2. Furniture and Furnishings Antony Bruce, White Robertson 1991
3. Interiors by Ahamad A Khasu, 2018

## Elective -3: Painting Technique Based on Theme

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **Each unit: 6 Hours**

#### **UNIT I**

Graffiti Art: Meaning of Graffiti Art, Types of Graffiti Art: Tag, Throw-up, Block Buster, Wild Style, Heaven, Stencil, Poster, Sticker,

#### **UNIT II**

Difference between Graffiti and Street Art. Methods of Graffiti art; Scribbling spray paint, Stencil Graffiti, Uses of Graffiti art in Interiors

#### **UNIT III**

Warli Art: Meaning of Warli Paintings, Main Colours, Used in Warli Paintings.

#### **UNIT IV**

Types of paintings: Madhubani, Miniature Painting, Pahad Paintings, Kalamkari Paintings, Tanjore Paintings, Kalighat, Paintings, Patachitra painting's Forms used in Warli Art; Circles, Triangles, Squares. Uses of Warli Art in interiors

#### **REFERENCES:**

1. Colour and Light in Oils, Nicholas Verole, Robin Kapon, 2008
2. Colour and Light , (A Guide for the realist Painter), Gurnui, 2010
3. Painting Self Portraits, Andrew and Paul James 2015

# **Lighting Design**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

## **UNIT I**

Aspects of lighting- physical, psychological, economical aspects; Colour of Light, Colour Rendition, Daylight, Artificial light, Brightness

## **UNIT II**

Visual Environment Study of delighting as a means of providing light within built spaces. Daylight prediction tools

Methods of Lighting; principles of lighting; lighting systems

## **UNIT III**

Light distribution, Intensity and diffusion, light and visual effect, lighting and conservation, lighting as a system, lamping, beam spread, color effects, meaning of illumination and light manipulation

## **UNIT IV**

Types of Lamps; Design of lighting for various spaces like restaurants, hotel lobbies, institutes, halls, offices and transit facilities.

## **REFERENCES:**

1. Robbins CL (1986) Day lighting Design and Analysis - Van Nostrand Reinhold Co.
2. Jankowski wanda Lighting, 1993 PCB Internation New York
3. Wilhide Elizabeth; Lighting 1998, Ryland Peters and small London



# **III Semester** **Vernacular Design**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

## **UNIT I**

Introduction to Vernacular design, Meaning of Vernacular Design, Principles of Vernacular Design, Constraint Thrift, Durability, Stages of Vernacular Design: Concept, Design, Process and product. Significance of Vernacular Design, Benefits of Vernacular Design

## **UNIT II**

Elements of Vernacular Design; Cultural Dimension, environmental dynamics, Spatial Conditions, Physical Aspects, characteristics of buildings in vernacular design; Attached building, Front portion of the building, Building extension. Spaces created in vernacular design; Storage space, courtyard, Closet place, workshop space, guest space, waiting space.

## **UNIT III**

Features of vernacular design; main Entrance, indirect light, thick wall, clay oven, incomplete- height walls, open staircase, Built in seat. Finishes of Vernacular design; Using available natural materials, natural flooring, Using Ornaments and colours, primitivism of doors and windows Give 2 Examples for the comparative Study of Indian Vernacular Design.

## **UNIT IV**

Modern and Contemporary vernacular Design; Visual Vernacular Design, Graphic Vernacular Design materials used, and its uses in interior design

## **REFERENCES:**

1. Engineering Drawing by Kapil Dev(2017) 2. Engineering Drawing by N.D Bhat (2012)
3. Engineering Drawing by K R Gopala Krishnan (2014)

# **Interior Technology**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

## **UNIT I**

Water Supply and Drainage systems: Methods of water supply systems, pipes used for fresh water supply, types of pipe joints, types of Taps and valves and its uses , Introduction to drainage systems, Types of drainage systems, Traps and its different types, different types sanitary fixtures : washbasins, Kitchen ,sink, Bathtubs, Urinals, water closet, Showers, Mixers, Flushing cistern, ,Jacuzzi

## **UNIT II**

Thermal & Acoustics Insulation: Introduction to thermal insulation, Purpose of insulation, types of thermal insulating materials used for floors, walls and ceiling & doors and windows and its installation procedure, Introduction to acoustics, defects of sound: echo and reverberation concepts in interiors, types of acoustic materials used for floor, walls, ceilings and its installations, noise and its types, Construction measures of noise control in interiors.

## **UNIT III**

Air conditioning And ventilation: Introduction to ventilation, uses of ventilation, Air changes, temperature, humidity and effective temperatures, Types of ventilation: natural and artificial ventilation, requirements of good ventilation in interiors, Definition of air conditioning, Purpose of air-conditioning, types of air-conditioning systems, working of summer air conditioning and winter air conditioning systems, , types of Air distribution systems, installation procedure for different types of AC units in interiors, care and maintenance of air-conditioning systems.

## **UNIT IV**

Lift and Escalators and Safety devices: Definition of lift, Working of lifts, Types of lifts, Lift safety regulations, Escalators and its types, introduction to safety systems: Firefighting services, types of fire resisting materials, construction methods for fire proof partitions, doors and windows, Security systems: Biometric systems; finger print, face recognition, voice recognition, retina scan systems , electrical device systems: CCTV , Cameras and its types, motion sensors:Ultrasonic, infrared system, microwave sensors, Ultrasonic sensors, dual technology motion sensors.

## **REFERENCE:**

1. Building Construction 2010 publication by Sushil Kumar
2. Interior Design Hardcover – 2018 by Ahmed A Kasu
3. Building Construction 2016 publication by B.C. Punmia.
4. A Guide to Security System Design and Equipment Selection and Installation 2nd Edition by Neil Cumming

## **Residential Space Planning (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Study of analysis of basic floor layouts (standards) in Relation to principles of Interior Designing
2. Planning a one bedroom apartment, Mezzanine floor with Furniture Layout Sectional elevations of the simple furniture layouts of different interior space
3. Complete floor Layout and furniture layout of: Two bedroom apartment; Four Bedroom apartment, Draw each rooms section, elevation and furniture detailing.
4. Residential Space Planning should include design theme, provision of wide openings for the purpose of utilization of sunlight and circulation of air.
5. Role of Painting techniques to show the room wide or small, tall or short. Usage of sustainable materials, indoor plants to give natural effects or look to the interior.
6. Mention the accessories used to increase the rooms illusion, with thin and thick fabric and cushions. Usage of ornamental lighting effects, water features such as; Fountains, waterfall and Aquarium.
7. Provision of sculpture and showpieces while giving, highlighting effects to add beauty to the interior. Usage of soft and hard floor coverings. Usage of thermal, acoustic, noise reduction, material in interior, mention the materials specification and rough budget estimation of each room

**NOTE: Compulsorily prepare a portfolio of residential space planning.**

### **REFERENCES:**

1. Neufert architects data –Ernest Neufert (1970)
2. Human dimension and interior Spaces – Julius Panero & Martin Zelnik (1979)
3. Time savers Standards for interior Design & space planning - Joseph De Chiara (2001)

## **Colour Concepts (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. History of Colors, Effect of Colors, color Mixing, Color Dynamics, Color Planning in Design, Use of Color in Various functional Contexts, and Color in Historic Interiors.
2. Use of Color and Material Specification, Color in Historic Interiors use of Color and material specification in various spaces like: Living Room; Dining Room; Master Bedroom; Kids Bedroom; Dining Room. Free Hand Sketching is Important.
3. Use of Colour and material specification in commercial spaces like: Hotel Lobby/ Reception; Spa/ Saloon; Montessori/ Kids Play Home; Restaurant/Cafeteria; Designer Cabin.
4. Free Hand Sketching is Important

**Note:** 1. Theme, Role of Colour, Material Specification, Introduction of advanced material Creative Design, Index Box 2. Free Hand sketch is compulsory

## **M.E.P. Drawings (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Interior Electrical Layout: Understand the various symbols used in the design. Show the electrical layout plan of residential and commercial spaces
2. Drainage and water supply System understand the various symbols applied for residential and commercial spaces
3. L.P.G. System: Study on Piping Valves, Gaskets, Fire Extinguishers, Switches and Ducts, study of application and installations of various kinds of kitchens on a standard and customized basis.
4. Under residential and commercial areas separately.

### **REFERENCES:**

1. Building construction by B.C Punmia , Rangawala, Sushil Kumar (2010)
2. Engineering Materials by S C Rangawala (2016)
3. Interiors by Ahmed A Kasu (2018)
4. National Building code, Time saver standards for architectural data(mc Graw – Hill international book Company (2000)

## **Elective -1: HUMAN RESOURCE MANAGEMENT**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **Each unit: 6 Hours**

#### **UNIT I**

Human resource management: Introduction – Meaning of Human Resource Management – Nature - Scope – Objectives -Significance and Functions of Human Resource Management – Evolution of Human Resource in India and world wide – Qualities and Role of Human Resource Manager.

#### **UNIT II**

Introduction to personnel management: Definition of personnel management – concept of personnel management – characteristics and qualities of personnel manager- role of personnel manager – objectives of personnel management – classification of functions – managerial functions – operational functions – changing scope of personnel management – emerging role of personnel management.

#### **UNIT III**

Human resource planning – introduction = HRP at different levels - process of human resource planning - Recruitment – introduction – definitions – objectives – sources and techniques of recruitment – Selection – introduction – selection procedure – placement - induction

#### **UNIT – IV**

Job evaluation and employee development: Job evaluation – introduction – definition of job evaluation – objectives of job evaluation – principles of job evaluation – basic procedure of job evaluation – advantages of job evaluation – limitation of job evaluation – performance appraisal – introduction – importance and purpose – approaches to performance appraisal – evaluation process. Employee training – introduction – distinction between training and development – need for basic purpose of training – importance of training – responsibility for training = training methods – training procedure – evaluation of training programme - career planning and development – what is career planning – succession planning – career development - counselling

#### **REFERENCES:**

1. Human resource management – V.S.P. Rao publication excel books new Delhi 2<sup>nd</sup> edition 2005
2. Human resource management – P. Subba Rao publication Himalaya publishing house Delhi 2<sup>nd</sup> revised edition 2007
3. Personnel management – C.B. Memoria publication Himalaya publishing house Delhi 27<sup>th</sup> edition 2007

## **Elective -2: Mock Interview**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

\ Internal Marks: 10

**Each unit: 6 Hours**

### **UNIT I**

Meaning of mock interview, needs of mock interview, Tips to preparing candidates for interview, Documents required for facing interview.

### **UNIT II**

Types of Interviews; Structured Interview, unstructured interview, Stress interview, Behavioural Interview, problem Solving or Case Interview, Panel Interview. Stages of Interviews, Introduction small talk, Information gathering, asking questions; closing the interview and following up.

### **UNIT III**

Steps of interview; Research the Company's Background; Practice answering, Dress well; Be Punctual and prepared, Wait Actively; First Impression; Don't Stress; Introduce Yourself professionally, Answer Questions Fully, Stay Positive.

### **UNIT IV**

List of Best interview questions and preparing candidates for answering. Elements of a Successful Interview; Preparation, Plan Backward; Posture; Positivity; Performance; probe; Postpone; Postal

### **REFERENCES**

1. Cracking the coding Interview, Gal Lakman. Mac Dowell 2015
2. Art Of Interview, Hs Bhatia, 2016
3. How to Succeed at interview Sudheer Andrews, 2008

## **Elective -3: MARKETING MANAGEMENT**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

**Each unit: 6 Hours**

### **UNIT I**

Introduction - Meaning of market – Meaning of marketing – Distinction between market and marketing – importance of marketing – marketing concepts – traditional – modern- selling v/s marketing – functions of marketing

### **UNIT II**

Marketing mix Product – meaning – definitions – concepts – types – product planning & development – product life cycle – elements of product mix (branding, packing, labeling, after sales service)

Price – meaning- definition – importance of price – factors affecting price of a product – methods

Distribution channels and physical distribution – meaning – definition – types – factors affecting choice of distribution channel

Promotion – meaning – promotion mix – advertising – meaning – characteristics – personnel selling – meaning – functions of salesman – sales promotion – meaning – tools – public relations

### **UNIT III**

Rural marketing – definition of rural area – importance – nature and scope – rural consumer – characteristics – attitudes and behavior – buying patterns and influences – segmenting rural markets .

### **UNIT IV**

Services marketing – nature and types of services – difference between services and goods marketing – service market segmentation – targeting and positioning – marketing of financial – hospitality and educational services.

### **REFERENCES:**

1. Marketing management by b s Raman publication united publisher's Mangalore 2<sup>nd</sup> edition July 2008
2. Marketing management by k d basava publication vidyavahini prakashan Hubli 4<sup>th</sup> edition nov 2008
3. Marketing management by s a sherlekar publication Himalaya publishing house Delhi 13<sup>th</sup> revised edition 2006
4. Marketing management by Philip Kotler & Kevin lane Keller a south Asian perspective 12<sup>th</sup> edition



## **III Semester Human Comfort Design**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

**Each unit: 6 Hours**

### **UNIT I**

Introduction to the historic development of furniture and interior design leading on to present time desk study of the eminent furniture designers.

### **UNIT II**

Study of work done by well Known artists through the ages , C R Mackintosh , F.L Wright, urrit Reitweld, Marcel Brewer, Alvar anatomies van Der Rohe.

### **UNIT III**

Different types of Furniture- Residential Seating Commercial seating, Tables – Table supports, Table styles, uses and types of tables, beds- types of beds and bedroom furniture, storage units, work stations.

### **Unit IV**

Arrangement of Furniture in different rooms like living room, dining room, and Bedroom Furniture.

### **REFERENCES:**

1. Cerver Francisco Asensio, Transport Stations(1992), Atrim
2. Berens Carol, Hotel Bars and Lobbies(1997) Mc Graw Hill, New York

## **IV Semester Innovative Interiors**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

**Each unit: 6 Hours**

### **UNIT I**

Introduction to Innovative Interiors; innovative ideas for interior design; space saving suspended bed, all in one living cube, hidden work space, packable bathroom furnishing for tiny space, storage space under staircase, home office under staircase, use mirror to enlarge space, super compact walk in bath tub, staircase double as storage space, slide-able and rotatable bedroom divider, dining table doubles as pool table, cool lighting fixture, featured wall.

### **UNIT II**

Innovative ideas for wall decoration Vertical Garden; Fun walls; Book Shelves; Wall Art Frames; create a gallery wall , showcase fabric, hang mirrors, paint a mural, hang plates , add sculptures, SCONCES, use it as storage.

### **UNIT III**

Use of New Materials: - Steel, Glass, Moulded Plywood and Plastic.

### **UNIT IV**

Innovative Furniture Design – Parker Table; Aston Martin Lounge Chair; Bahia Chair; Wooden Panton Chair; Octopus Chair; Mus Sofa; Letto Zip Bed; Lomme Bed; Bed and Desk.

### **REFERENCES:**

1. Neufert architects data –Ernest Neufert (1970)
2. Human dimension and interior Spaces – Julius panero & martin Zelnik (1979)
3. Time savers Standards for interior Design & space planning - Joseph De Chiara (2001)

## **IV Semester Interior Scaping**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

### **Each unit: 6 Hours UNIT**

#### **I**

Introduction to interior scaping, Key elements for indoor landscaping; Colour, pattern, form; texture, line, space. Principals for indoor landscaping; proportion, repetition, balance, rhythm, unity, harmony, scale, dominance, focal point.

#### **UNIT II**

Rules to be followed for maintenance of interior scaping ; choose your style, design your landscape to work for you , sketch your ideas before doing anything else, plan for the future, budget plan, take care of problems, plan in odd multiples, plant in mass but don't over crowd, keep plan records , with your drawing , have a maintenance plan in place

#### **UNIT III**

Various house plants; Aloe Vera; Orchid, eureka palm, English Ivy Y, Indian basil, spider plant, dracaema, azalea, snake plant, weeping fig. Uses of indoor plants; plant helps to reduce stress, helps to improve air quality, helps to lower background noise, care and maintenance of indoor plants such as provision of watering, provision of sunlight and darkness, shifting of plant – small container to big container, provision of compost, provision of pesticides.

#### **UNIT IV**

Introduction to horticulture science, importance of horticulture, characteristics of horticulture, uses of horticulture, space planning for each plant and provision of containers .Pest management in interior landscape; introduction to pest control , benefits of pest control, risk issues, in pest control.

### **REFERENCES:**

1. The manual of interior plant scaping – Kathy fellow 2015
2. Introduction to horticulture science- Richard N Arteca 2006

## **IV Semester Application of CAD in Interiors (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. AutoCAD interface: Introduction to functional keys and its uses, Menu Bar, standard toolbar, Vertical and horizontal scroll, Tool bar, status bar, UCS icon
2. AutoCAD tools: - Understanding the use of drawing tools, object editing, drawing objects, filing and setting drawing units, scales, limits that size and dimensioning, lettering. Setting up of drawing of various simple objects with complete text and dimensioning. , hatching utilities, assigned color and line type, use of multi-line, style, block, symbol library, manipulation for accurate drawings, incorporating the above mentioned utilities. Blocks, slide facilities, script files and attributes. Understanding concepts of View port.
3. AutoCAD 2D Commands :-Circles and curves arc, Polygon, ellipse, Donut, Setting drawing limits, Object selection, setting drafting units, Polar tracking, grid and snap, Isometric drawing, Creating and editing text, spell, m text, dimensioning, Trim, extend, stretch, Color and line types setting, zoom, pan, view and ds viewer, hatch boundary, hatch, editing hatches, creating polylines, edit, layers creation.
4. Draw 2D drawings of at least 4 simple objects having drawn and edit commands, Draw 2D drawings of architectural components such as doors, windows, stairs and furniture's such as chairs and tables,
5. Draw an interior layout plan of bedrooms, living rooms, kitchen, dining room, kids' room, guest room with sectional elevations, and draw 2D Plans of residential interiors and commercial interiors (Restaurant, Interior design offices, showrooms etc.)

### **REFERENCES:**

1. AutoCAD 2014 Tutorial - First Level 2D Fundamentals May 2013 publication by Randy H. Shih
2. AutoCAD 2014 in Simple Steps by Cogent Learning Solutions Inc.
3. Mastering AutoCAD 2014 and AutoCAD LT 2014: Autodesk Official Press 1st Edition,

## **Commercial Space Design (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Study of analysis of basic floor layouts (standards) in Relation to principles of Interior Designing. Planning a one bedroom apartment, Mezzanine floor with Furniture Layout Sectional elevations of the simple furniture layouts of different interior spaces. Complete floor Layout and furniture layout of: Two bedroom apartment; Four Bedroom apartment.
2. Planning any Commercial Offices, Complete floor Layout and furniture layout: Conference Hall, Classrooms, Dental Clinic, and Kitchen of a Restaurant, textile, and jewellery showroom. Draw sections and elevations and furniture details of each showroom
3. Commercial Space Planning should include design theme, provision of wide openings for the purpose of utilization of sunlight and circulation of air. Role of Painting techniques to show the room wide or small, tall or short.
4. Usage of sustainable materials, indoor plants to give natural effects or look to the interior. Mention the accessories used to increase the rooms illusion, with thin and thick fabric and cushions. Usage of ornamental lighting effects, water features such as; Fountains, waterfall and Aquarium.
5. Provision of sculpture and showpieces while giving, highlighting effects to add beauty to the interior. Usage of soft and hard floor coverings. Usage of thermal, acoustic, noise reduction, material in interior, mention the materials specification and rough budget estimation of each room

**NOTE: Compulsorily prepare a portfolio of Commercial space planning.**

### **REFERENCES:**

1. Neufert architects data –Ernest Neufert 1970
2. Human dimension and interior Spaces – Julius panero & martin Zelnik 2014
3. Time savers Standards for interior Design & space planning - Joseph De Chiara 1992

## **Sustainable Material Modelling (Pr)**

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks:10

### **INSTRUCTIONS:**

1. Introduction to Sustainable Materials and products. Features and classification of sustainable materials, Environmental, Social and Economic benefits of sustainable materials. Characteristics of sustainable Products; customer satisfaction, Dual Focus, Life- Cycle, Significant improvement, Competing offers,
2. Sustainable materials list: Paper, Bamboo; Cork; Sticks; Clay l Mount Board; Straw; Coconut palm; and Students are required to prepare individual models of different sustainable materials with different media and techniques. Paper Model For Paper Craft, Constructed from Heavy paper , Paper board, Card Stock or Foam, Models ; DIY projects and Craft, Hanging Pictures and wall Art; paper craft, vase, DIY Home Projects;. Bamboo Modes; Architecture models Sketch up models, Lucky Models, Bamboo 3D Models, Cork Models; Architectural Garden; Stick Models; Ice cream stick House;
3. Modern Pop sticks stick models; Clay Models; Indoor and Outdoor Furniture's, Show Pieces, Sculptures, vases, wall and Outdoor furniture's, Show pieces, sculptures, vases, wall designs, Straw Models; Flower Vases, Partition Wall decoration, Ceiling Accessories, Mount Board Models;; Model Of Residence and Commercial Spaces, Furniture Decorative. Coconut Palm and Coconut Shells and models ; Decoratives

## Elective -1: Theme for Interior Décor

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **Each unit: 6 Hours**

#### **UNIT I**

Introduction to Theme, Difference between Interior Design Theme and Interior Design Concept, Benefits of an Interior Design Theme, Key elements of Interior Design the, Principles of Interior Design Theme: Form, Light Color, space, Texture and pattern.

#### **UNIT II**

Different Types of Themes for Interior Design; Traditional ,Mid-Century Modern; Modern; Contemporary; minimalist, Industrial, Scandinavian; Transitional; French country; Bohemian; Rustic; Shabby Chic; Hollywood Glam; Coastal or Hamptons.

#### **UNIT III**

Mention each Themes uses to an Interior Design. Prepare a Index Box for each theme Including Flooring, Wall, Ceiling, Furniture's, Lighting, furnishing materials used along with its dimension, Material Specification, Advance Material Used, Role of Colors, Uses of Ornaments and accessories

#### **UNIT IV**

Utilization of natural daylight, giving important to natural materials, recycled materials to save money electricity, water and nature. List out the natural and recycled material which can be used for interior Design

**REFERENCES:**1. The maker ,Tamara Maynes, 2015    2. Dream Decker, Will Taylor, 2016

3. The Scandinavian Home, Niki Brant Mark, 2017

## V Semester Material Quantities & Estimation

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

**Each unit: 9 Hours**

### **UNIT I**

Bill of quantities: Definition, preparation, Format. Study of all materials on the present market scenario, Study of new materials in the market, Calculate estimate on per unit basis, basic calculating of small areas e.g. skirting, POP, RM.

### **UNIT II**

Study of abbreviations before presentation of BOQ, Data collections and Keeping information of market prices of materials and products required in interior works.

### **UNIT III**

Detailed specifications on partition walls, Contemporary furniture, customized furniture, etc. Student should give an estimate or detailed calculation of any 5 topics of their choice

### **UNIT IV**

Preparing detailed estimation of interior works, Records or study on the calculation involved to get the exact estimate of the product on permit basis, Followed by an group Assignment consisting of 6 members,

Pick any one room of a

-Residence

-Commercial space (offices, restaurants, banks, cafes) and submit

Final records with detailed estimate of any one room from each student compulsorily.

**REFERENCES:** Time Savers Standards for Building Types- Mc Graw Hill Book Co. 2018

2.Estimating &costing in civil engineering By B N Dutta edition 2016



## **IV Semester Perspective Design**

Duration of Exam: 3 hrs

Marks: 120

No. of total hours: 48 Hrs

Internal Marks: 30

### **Each unit: 12 Hours UNIT**

#### **I**

Introduction or use of Perspective, Perspective Projection, Study of terms like picture plane, Station Point, Vanishing Point, Eye level Ground Line etc., Circular features in horizontal position, Circular features in vertical position, Visual ray method or Multi view perspective

#### **UNIT II**

One point perspective projection or Parallel perspective projection of the following the Interior Spaces with all Furnishings and Fittings: Bed Room, Dining Room, Living Room, Kitchen Room, Reception/ Lobby, Workstation etc.

#### **UNIT III**

With picture plane touching object, picture plane in-between object and station point, and picture plane is beyond the object similarly eye level is in the ground level, below the ground and very high level

#### **UNIT IV**

Two point perspective or Angular perspective projection of the following Interior Spaces with all Furnishings and Fittings: Bed Room, Dining Room, Living Room, Kitchen Room, Reception/ Lobby, Workstation etc., similarly eye level is in the ground level, below the ground and very high level

#### **REFERENCES:**

1. Engineering Drawing by Kapil Dev (2017)
2. Engineering Drawing by N.D Bhat (2012)
3. Engineering Drawing by K R Gopala Krishnan (2014)
4. Interior Design by Ahamad A Kasu (2018)
5. Rendering with pen and Ink – Robert W, Gill (2012)
6. Neufert Ernst (1970), Ernst Neufert, "Architects Data" By Lockwood and sons, London

## **V Semester Renovation of Interiors**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

### **Each unit: 9 Hours**

#### **UNIT I**

Renovation: Importance of Renovation, to increase the enjoyment and conformability

Need for Renovation, to increase value to secure a safety issue, to improve the style, to improve the functions to improve the efficiency.

#### **UNIT II**

Areas of Concern: walls, Floor, Ceiling/roof, Wood work, Electrical, plumbing, sanitary furniture and furnishing.

#### **UNIT III**

Considerations of Alterations, Evaluation of Existing Conditions, Study of Prevalent rules and Regulations, Sketching, Analysis of Cost Repair.

#### **UNIT IV**

Advantages of renovation- ENERGY EFFICIENCY, Creating a new living space, aesthetics- a new appearance and investment

**REFERENCES:** 1.Element Of Style, Erin Gates ,1920 2.Commercial Renovation Cost Data, 2016, Jordian 3. Home Remodeling, Mike Litch Field, 2012. 4. Victorian exterior Decoration: How to paint your 19<sup>th</sup>- century American House Historically.

1. Victorian Interior Decoration: American Interiors: 1830-1900

## **V Semester Vastu & Fengshui**

Duration of Exam: 3 hrs  
No. of total hours: 48 Hrs

Marks: 120  
Internal Marks: 30

Introduction to Fengshui, Principles of Feng Shui:-  
Yin Yang, Qi, Natural Elements & Bagua and their application in Interior Design

### **UNIT IV**

Fengshui as Decorative accessories for building, use of green house, open structure, water statues and sculptures, ornaments mirror and glass

### **REFERENCES:**

**Vasthu Vasthu:** Shastra:- D.N. Shukla 2003

2.Vasthu Science:- B.B. Puri 2003

Feng Shui Fengshui: Stephen Skinner 2001

2.Multicultural Fengshui: Maureen L. Belle 2007

## V Semester 3D-Studio MAX (Pr)

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Essentials of 3Ds max in design visualization: Negotiating with objects transformation, move, rotate, scale, Understanding various geometrical objects and model types such as box, cube, sphere, Mesh, Poly patch. Usage of spline modifiers, Extrude, Lathe, Bevel profile Generating 3D surface model Create a simple building plan with dimensions by using wall or AEC Extend tool, importing plan from AutoCAD to 3S Max
2. Basic concepts of 3Ds max: Importing models from AutoCAD software, creation of primitives, compound objects, modifiers, creation of materials, Material applications, lights, cameras, etc., working with a soft goods such as draperies and table cloths produced with surface modelling techniques. Rendering, creating walk through, panoramic views.
3. Modifiers in 3Ds max: Bend Bevel Extrude, Cross Section, FFD 2x2x2 / 3x3x3, FFD 4x4x4, Lathe, Lattice, Melt, Mirror, Noise, Optimize, Path, Deform, winding, Push, Relax, Ripple, Skew, Slice & Caps Hole, Specify, Squeeze, Stretch ,Taper
4. Texturing concepts: Rules of applying textures Uv mapping Texturing Concrete Texturing wood Texturing, cloth texturing Principles of working with materials, Finalizing your material work, Tuning materials, Fall of, Color correction, Vray Dirt, Types of materials in 3Ds max, Blend Material, Multi/sub object, Vray Light material, Creating widely used materials, Fresnel reflection
5. Lighting in 3Ds max: Main principles of setting the lights, Vray sun+ Vray sky, Vray Sun settings, Day lighting, Night Settings, Sunsets, Three types of lights
6. Draw a 3D model of residential interiors such as bedrooms, living rooms, kids room, dining rooms, kitchen and guest rooms, commercial interiors such as restaurant and showrooms models

### **REFERENCES:**

1. Inside 3D Studio Max by Boardman, Ted or Hubbell Jeremy 1998
2. Autodesk 3Ds Max 2018 for Beginners A Tutorial Approach 1 Nov 2017 by Sham Tickoo

## V Semester Rustic Designs (Pr)

Duration of Exam: 3 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Introduction to Rustic Designs, Uses of the term rustic design in modern periods; use of historical period room installations or furniture's within a modern overall room design.
2. Requirements contemporary rustic styles; rustic setting, raw natural elements, wide plank wood floors, fire place , paneled walls, white walls, wooden beamed ceilings, neutral, natural, color palette, Large Chunky Pieces, Faux animal Hides, balanced white and Neutral, Non Painted wood, Natural Solid Fabrics, Non- Shiny metal woven Baskets, Found Objects, Textural emphasis, understated Seating's Accents that Mimic nature, Reclaimed barn wood, Bold , Simple Patterns Woven Textiles, Modern Rustic combo, Rustic Colour Palettes; ruby; Sage Green; Mustard; Amethyst; Scarlet; Peacock; Dove; Gray; Tangerine; Burn Orange;; Caramel; Orange garnet Permission; Terracotta Chocolate.
3. Students have to Submit document reporting two live cases on rustic design, the document should include; Detailed Drawing and Specifications, Photographs, themes, materials used proportionate estimation.

**NOTE:** They have to integrate their findings in the visual journal. This individual journal will be taken under the guidance of faculty advisor, to demonstrate interior Knowledge & professional Interiors.

## V Semester In–House Training (Pr)

Duration of Exam: 3 hrs

Marks: 240

No. of total hours: 48 Hrs

Internal Marks: 60

### **INSTRUCTIONS:**

1. Students are required to gain practical experience for 12 – 16 weeks in the Vth Semester, They should try to get their training in any of the places. Interior designer; Furniture Designer; Architects Dealing.
2. After completion of the in- House training the student has to report with duly signed certificate of the concerned office to the principal of the concerned college.
3. The Report should include 10- 15 drawing sheets detailing the work done by the student at the designer's office, the sheet should preferably include one complete project – plans, sections and elevations of the interior along, with working details of furniture or interior elements.
4. The working drawings should necessarily indicate the materials used and the sizes of the sections. All drawings should be neatly labelled and dimensioned.
5. Estimation for the project and material specifications may also be included.
6. Conceptual drawings, if any must be rendered along with the student's idea of the material and colors to be used.
7. Site Visit reports must include a description of the building process/ technique/ materials must be accompanied by Photographs, at least one site visit report is compulsory.
8. Student should submit the report in three copies (University, college& student reference) the report should be computer typed. The report should be well bound so the t its durability will be more for many years to refer.
9. Duty of the college, After receiving the report from the students ,the principal of the concerned college has to send the in- house report(only university copy) to Mangalore university to get the approval and university seal and the same should be got back to the college for viva voce examination. The report should be submitted to the University for Record keeping after completion of the viva voce examination.

## **V Semester Entrepreneurship**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

**Each unit: 9 Hours**

### **UNIT I**

Entrepreneur – introduction – evolution of the concept of entrepreneur – characteristics of successful entrepreneurs – functions of entrepreneur – need for an entrepreneur – types of entrepreneurs – distinction between entrepreneur and manager – entrepreneurship – concept of entrepreneurship – role of entrepreneurship in economic development

### **UNIT II**

Nature and functions of management – importance of management – definition of management - functions of management – management a science or an art – management a profession – management and administration – levels of management – roles of a manager. Leadership – difference between a leader and a manager – characteristics of leadership – functions of a leader – approaches to leadership – leadership style in Indian organization

### **UNIT III**

Women entrepreneurship – concept of women entrepreneur – functions of women entrepreneurs – growth of women entrepreneurship in India – problems of women entrepreneurs – Developing women entrepreneurship – limitations of women entrepreneurship

### **UNIT IV**

Forms of business ownership – sole proprietorship – partnership – company – co-operative – selection of an appropriate form of ownership structure – factors affecting entrepreneurship growth – economic factors – non economic factors – government actions

### **REFERENCES:**

1. Entrepreneurial development by dr. Ss Khanka
2. Publishers s. Chand & company pvt ltd new Delhi revised addition 2012
3. Principles of Management by PC Tripathi & PN Reddy Publishers Tata MC Graw – Hill publishing company Limited New Delhi 4<sup>th</sup> edition 2008
4. Dynamic of Entrepreneurial Development and Management by Vasant Desai publishers Himalaya Publishing House New Delhi 4<sup>th</sup> edition 2000
5. Principles & Practice of management by T N Chhabra Publishers Dhanpat Rai & co (P) Ltd India New Delhi 10<sup>th</sup> edition 2007

## **VI Semester Organizational Behaviour**

Duration of Exam: 3 hrs

Marks: 80

No. of total hours: 36 hrs

Internal Marks: 20

### **Each unit: 9 Hours**

#### **UNIT I**

Introduction to Organizational Behaviour – Concept and Meaning of Organizational Behaviour; Nature, Scope and Importance of Organizational Behaviour Characteristics of Organizational Behaviour. Role of Organizational Behaviour

#### **UNIT II**

Individual Behaviour –Introduction, Personal Factors – Biographical Characteristics, Learned Characteristics; Environmental Factors Socio – Cultural Factors Political Factors – Legal Environment: Organizational Factors

#### **UNIT III**

Personality – Nature of Personality .Theories of Personality –,Type Theory, Trait Theory, Psychoanalytic Theory, Social Learning, Humanistic Approach,

#### **UNIT IV**

Maslow's Self – Actualization Theory; Determinants of Personality – Heredity, Environment, Contribution from The Family, Socialization Process, Situational Consideration

### **REFERENCES:**

Organizational Behaviour by VSP Rao 2017

Organizational Behaviour by Archana Tyagi 2006

Organizational Behaviour by L M Prasad 2014



## **VI Semester Parks and Gardens**

Duration of Exam: 3 hrs

Marks: 120

No. of total hours: 48 Hrs

Internal Marks: 30

**Each unit: 12 Hours**

### **UNIT I**

Parks: Introduction to park , History of parks, uses of Parks, Park planning Designs; making a plan to scale, designs for specific areas; kids playing area, walking area, seating area, fountain area, safety area, drinking water area, commercial area.

### **UNIT II**

Types of parks; National Park, State ark, Wilderness Park, Regional Park, Marine National Park, Coastal park, Metropolitan Park , Element of Parks: Line Scale, and Proportions , color texture, pattern, rebalance, harmony with respect to provision of water features like; Fountain , Pond, and water fall, role of sculpture,; Materials used, its positioning, role of plants and trees.

### **UNIT III**

Gardens: Introduction to garden, requirements of gardens, types of gardens; indoor gardens, outdoor gardens, Aerial Garden mention their features and uses. Selection of plants , creepers and trees for garden, maintenance of garden, taking care of plants and trees, different types of containers for interior garden and exterior garden.

### **UNIT IV**

Types of Landscape: Soft Landscape and Hard Landscape, Materials used in soft landscape, grass, plants, soil. Materials used in hard land scope for floor interlocks, Pebbles, rocks. For wall seating's; Bricks, rocks, wood, stone, for provision of accessories; water Fountains, statues and sculptures, Lightings; general Lighting, Accent Lighting, Task Lighting. Study of Horticulture, Study of Floriculture, Study of Flower Arrangements and study of Arboriculture, mention their uses, Care and Maintenance.

### **REFERENCES:**

1. Parks and Gardens – Myhs Holland
2. Introduction to Landscape Design- John Van
3. Landscape design- leroy G Hannebaum

# Interior Design for Special Needs

Duration of Exam: 3 hrs

Marks: 120

No. of total hours: 48 Hrs

Internal Marks: 30

**Each unit: 15 Hours**

## **UNIT I**

Housing Environments for Physically Handicapped, Old aged people, destitute, orphan, deaf and dumb mentally retarded

## **UNIT II**

Study of existing problems- some reflections of the problems Scope and objectives and ways to overcome through designing Different research institutions and their functions.

## **UNIT III**

Ergonomic factors anthropometrics data, circulation, work surfaces for different functions arrangement and clearances , door width, kitchen counter height , counter width, furniture suggested for them and their details: For reading; Studying; Dinning; Storing- clothes , books and other daily needs; Recreational activity; Toilet facilities ; Commercial Offices; Health Care

## **UNIT IV**

Facilities Provided in Recreational Areas, Public areas Etc.: Public health centers; Cinema; all; Ramp, slope; Parking Areas; Circulation areas; Lifts

## **REFERENCES:**

1. CPWD Guidelines for space standards for barrier free built environment for disabled and elderly persons, CPWD, New Delhi
2. Joseph DE Chiara, ET. Al., Time Savers standards for building types, mc Graw Hill Intl, Singapore 3<sup>rd</sup> Edition, Singapore 1995
3. Joseph DE Chiara, ET. Al., Time Savers standards for Housing and Residential Development, Mc Graw Hill Intl, Singapore 3<sup>rd</sup> Edition, Singapore 1995.

## **VI Semester Craft Work (Pr)**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

1. Students are required to study the following and required to prepare individual models for different components of interior and sculptures with different media and different techniques.
2. Advantages of models , different materials for making models including core materials and finishing materials, tools , techniques, application of scale finishing and final presentation, modelling of interiors scaping and land scaping.
3. Preparing models for the following: Wall Paneling; False Ceiling; A mock –Up of Bedroom; Lounge Seating; An Office Cabin with Furniture's; Landscape for campus Garden

### **REFERENCES:**

1. Mold Making and slip casting – Andrew Martin
2. Living Materials- a sculptors handbook- Oliver Andrews
3. Molding techniques- Joaquin Chavarria
4. Hand Building Techniques - Joaquin Chavarria

## **VI Semester Dissertation (Pr)**

Duration of Exam: 2 hrs

Marks: 40

No. of total hours: 24 hrs

Internal Marks: 10

### **INSTRUCTIONS:**

Modern and Futuristic Interiors

1. Each Student is expected to prepare a design thesis based on the preliminary work undertaken in the interior design studio under an approved guide.
2. Thesis should reflect the knowledge gained from all the courses undertaken by the student in all the previous semesters.
3. Particulars of the content, schedule, presentation, format etc, is to be decided by the department from time to time and shall be strictly followed.
4. At the end of the semester each student is expected to submit all original drawings prepared as per the department specifications. Two Copies of the report in the specified format should be submitted to the department after the approval of the respective guides.
5. The Department shall schedule the viva voce at its convenience only after the receipt of the thesis by the student, the performance sheet submitted by the guide and the thesis committee should be the basis for allowing the student to appear for the final viva voce.
6. The end is to be conducted by a jury comprising of an external examiner and with one internal examiner

### **REFERENCES:**

1. Time Savers Standards for Building Types- Mc Graw Hill Book Co. 2018
2. Building Drawing- TATA Mc Graw Hill Publishing – Shah, Kale& Patki 2003

## VI Semester Project Work (Pr)

Hours: 3 hrs

Marks: 240

No. of total hours: 48 Hrs

Internal Marks: 60

### **INSTRUCTIONS:**

1. It is Developed and presentation to design of a building including its setting in specific environment and its difficult aspects the scope of the project can be in areas related to commercial spaces.
2. As per his/ her inclination towards the area the final selection of the topic will be approved by the project selection committee appointed by the department.
3. On completing the projects, students will be required to produce the necessary drawings, documentation and presentation aids to an extremely high profession standard and the entire design process and methodology must be meticulously documented.
4. Each Student is expected to prepare a design thesis based on the preliminary work undertaken in the Project Work under an approved guide.
5. At the end of the semester each student is expected to submit all original drawings prepared as per the department specifications. Three Copies of the report in the specified format should be submitted to the department after the approval of the respective guides.
6. The Department shall schedule the viva voce at its convenience only after the receipt of the thesis by the student, the performance sheet submitted by the guide and the thesis committee should be the basis for allowing the student to appear for the final viva voce.
7. The end is to be conducted by a jury comprising of an external examiner and with one internal examiner

### **Question Paper Patterns**

#### **Question Paper Pattern for all elective subjects from Semester I- Semester IV:**

##### **Question Paper Pattern Part A**

##### **I. Answer any 2 questions:**

Each Question Carries 10 Marks

10 x 2 = 20

##### **Part B**

##### **II. Answer any 4 questions:**

Each Question Carries 5 Marks

5 x 4 = 20

**Total Marks: 40**

#### **Question Paper Pattern for all subjects of 80 marks**

##### **Question Paper Pattern Part A**

##### **I. Answer any 3 questions:**

Each Question Carries 12 Marks

12 x 3 = 36

##### **Part B**

##### **II. Answer any 4 questions:**

Each Question Carries 6 Marks

6 x 4 = 24

##### **Part C**

##### **III. Answer any 4 questions:**

Each Question Carries 5 Marks

5 x 4 = 20

**Total Marks: 80**

#### **Question Paper Pattern for all subjects of 120 marks**

##### **Question Paper Pattern Part A**

##### **I. Answer any 5 questions:**

Each Question Carries 12 Marks

12 x 5 = 60

##### **Part B**

##### **II. Answer any 5 questions:**

Each Question Carries 8 Marks

8 x 5 = 40

**Part C**

**III. Answer any 4 questions:**

Each Question Carries 5 Marks

5 x 4 = 20

**Total Marks: 120**