



SRI KANYAKA PARAMESWARI
ARTS & SCIENCE COLLEGE FOR WOMEN
Managed by SKPD & Charities
Affiliated to University of Madras
Chennai - 600 001.



DEPARTMENT OF HOME SCIENCE - INTERIOR DESIGN AND DÉCOR

PROGRAMME OUTCOME

- PO1:** Apply emerging edge technologies with adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills and leadership qualities.
- PO2:** Apply ethical principles and commit professional ethics by adhering building byelaws.
- PO3:** Understand the importance of green environment and sustain the naturally available resources thus utilizing the same to have comfortable environment.
- PO4:** Acquire depth knowledge and skills in various competitions, seminars and workshops.
- PO5:** Inculcate, evaluate and ensure the mode of communication among students and staff.
- PO6:** Evaluate them to enhance their self esteem.

Program Specific Outcome

- PSO1:** Understands colour concept, lighting methods and arts which enables them to decorate the interiors based on aesthetic performance.
- PSO2:** Acquire knowledge on selecting appropriate building materials and finishes with regard to safety and eco friendly construction.
- PSO3:** Examine furniture design and ergonomic principles to create comfortable working environment.
- PSO4:** Apply elements and principles of design in interiors and provide solution to create new ideas and innovation.
- PSO5:** Design and execute various floor plans through the tools for 2D and 3D drawing and drafting using Auto CAD software.

SYLLABUS

Subject: Principles of Interior Design
Sub Code: TAK1A

Year : I
Semester : I

Unit I : Introduction – fundamentals of drawing and its practice, introduction to drawing equipment, familiarization, use and handling.

Unit II : Introduction to art and design, Development of interior design concept, importance of design, objectives of aesthetic planning, role of good taste and good designer.

Unit III : Types of design- structural and decorative design, classification of decorative design- Naturalistic design stylized, abstract and geometrical design.

Unit IV : Elements of design- line, direction, shape, form, size, texture space and colour. Application of elements to form design.

Unit V : Principles of Design- Harmony balance, proportion, emphasis and rhythm. Application of design concept in interior decoration.

Practicals:

1. Free hand sketching.
2. Analysing design for their qualities.
3. Collecting and compiling various accessories from various regions of India.
4. Functional and decorative accessories.
5. Arranging various areas using the different principles of design.

References:

1. Gilliat, (2012). M., Mix and Match Decorating Book. Dover Publications Inc: NewYork U.S.A.
2. Premavathy Seetharaman and Parveen Pannu, (2009). Interior Design and Decoration. CBS Publishers and Distributors Pvt Ltd. New Delhi.
3. Goldstein, (1976). Art in Every Day Life. Oxford and IBH Publishing House.
4. Luann Nissen, Ray Faulkner, and Sarah Faulkner (Jan 2, 1994). Inside Today's Home Holt, Rinehart and Winston, Alnc. U.S.A.
5. Caroline Clifton et.al., (1991). The complete Home Decorator. Portland House, New York.
6. Chaudhari, S.N. 2006, Interior Design. Aavishkar Publishers, Jaipur.
7. Kasu, A.A. 2005, Interior Design, Ashish Book centre Delhi.

COURSE OUTCOME

- C01:** Summarize the fundamentals of drawing, use and handling of drawing equipments.
C02: Apply the Art and design concept in aesthetic planning.
C03: Classify design types like structural and decorative design.
C04: Examine the different elements of design in creating design objects.
C05: Apply the Art principles in Interior Design.

Unit I : Introduction to the term accessories, its definition and importance in interiors, Classification – functional, decorative and both, Differences between accessories and collection, Factors influencing the selection of accessories, Placement, location and background for accessories.

Unit II : Pictures as accessories, Types of pictures, Selection of pictures, Mounting, Framing and hanging of pictures in interiors. Art – drawings, prints, photographs and posters.

Unit III : Crafts – Pottery, Blown and stained glass, Wood craft and basketing. Antiques – Meaning and procurement, Sculptures, Plants and Flowers as accessories.

Unit IV : Decorative Styles: Retro style, Scandinavian style, Country style, Art Deco and Art Nouveau.

Unit V : Brief study on Folk arts and craft from different regions of India. Murals and other wall decoration used in India.

References:

1. Anna Hong Rutt (Second edition, 1991). Home Furnishing. John Wiley & Sons, Inc.
2. Premavathy Seetharaman & Parveen Banu, (2001). Interior Design & Decoration. CBS publishers.
3. Martha Vaughan & Phoebe Vaughan, (1993). Simply The Best Home Decorating Book, Fashion Apparel, Accessories & Home Furnishings. Jay Diamond & Ellen Diamond, Pearson Education, Inc.
4. Book Club Associates, (1990). Good House Keeping's Home Encyclopedia.
5. Eaglemoss Publications Ltd, (1996). Creating your Home, Creative Flowers & Plants for Your Home.
6. Eve Harlow, (1995). The Book of Handicrafts for all the Family. Hennerwood Publishing Limited.
7. Harriet Goldstein & Vetta Goldstein, (Fourth Edition, 1988). Art in Everyday Life. Oxford & IBH Publishing CO.
8. The Practical Encyclopaedia of Good Decorating & Home Improvement, Vol I.
9. Creative Home Owner, (First Edition 2006). Design Ideas of Home Decorating. New Jersey.

COURSE OUTCOME

- C01:** Define and classify accessories. Analyze the importance, selection and arrangement of accessories in relation to background.
- C02:** Criticize various Kinds of art forms used as accessories.
- C03:** Compare the types of accessories and choose the appropriate accessories in interiors.
- C04:** Distinguish the types of decorative styles.
- C05:** Appraise the Folk arts and crafts from different regions of India.

Subject: Fundamentals of Building science
Sub Code: TBK1A

Year : I
Semester : I

Unit I : Introduction of Building materials - Properties, types and uses of Stone, Bricks, Clay products, Tiles, Glass, Timber, Concrete, Paints, Varnishes, Distemper, Architectural metals like Steel, Iron and Aluminium, Plastics.

Unit II : An introduction to various construction techniques in Bonds in brickwork – Header bond, Stretcher Bond, English Bond and Flemish bond, Staircase types, Wood Paneling, and Partition walls.

Unit III : Types and Construction methods of Doors, Windows, Arches, Roofs –Flat roofs, Pitched roofs and Prefabricated Houses. Acoustical materials & their application.

Unit IV : Mechanical services – Lifts, Ramp and Escalators. Drainage system in building - General principles, Traps, Methods of drainage – one pipe and two pipe system. Sanitary apparatus - Wash basins, Sink, Bath tubs, Water Closets, Flushing Cisterns, and Urinals.

Unit V : Rain water harvesting – meaning, purpose, Benefits of using rainwater, components of rain water harvesting system, methods-surface runoff and roof top rain water harvesting.

Practicals:

1. Measure drawing
2. Use of drawing instruments, Types of Lines, Lettering, Dimension and Use of Scales
3. Free hand sketching – One point and two point perspective views of interior spaces like Living room, Bedroom etc.
4. Technical drawing - Isometric view of simple furniture
5. Isometric view of a building and individual houses with Rain Water Harvesting
6. Understanding a building and its interiors in terms of plan, elevation and section
7. Sketches of building elements like foundations, wood joineries, bonds in brickwork, doors, windows, arches and lintels.
8. Sketches of building services like lifts, escalators, water supply and drainage systems.

References:

1. Rangwala, (Thirty Eighth Edition, 2011). Engineering Materials (Material Science), Charotar Publishing House Pvt Ltd, Anand.
2. S.S. Bhavikatti, (2012). Building Construction, Vikas Publishing Home Pvt Ltd.
3. Dr. B.C. Punmia, Ashok Kumar Jain & Arun Kumar Jain, (Tenth edition). Building Construction. Laxmi Publications (P) Ltd.
4. P.C. Varghese, (May 2013). Building Construction, PHI Learning Private Limited.
5. S.C. Rangwala, (Eighteenth Edition, 2003). Water Supply and Sanitary Engineering (Environmental Engineering), Charotar Publishing House, Anand.
6. A.S. Panchdhan, (Second Edition 2000). Water Supply and Sanitary Installations. New Age International (P) Ltd.
7. N.D Bhatt, (Fiftieth Revised Edition, 2011). Engineering Drawing. Charotar Publishing Housing Pvt. Ltd.
8. Peter A. Koenig, (2012). Design Graphics. Dorling Kindersley India Pvt. Ltd.

COURSE OUTCOME

- C01:** Understand the Properties and benefits of various building materials.
- C02:** Develop technical terms and construction techniques in buildings.
- C03:** Identify other required services for the successful completion of constructing a building.
- C04:** Experiment with drafting tools and techniques.
- C05:** Design of simple layouts for rooms.

Unit I : Retailing – Definition – Retail Marketing – Growth of organized retailing in India – Importance of retailing.

Unit II : Functions of retailing – Characteristics of retailing – Types of retailing – Store retailing – Non-store retailing.

Unit III : Retail location factors – Branding in Retailing – private labeling – Franchising concept.

Unit IV : Communication tools used in retailing – Sales promotion, e-tailing – Window display.

Unit V : Supply chain management – definition – importance – Role of information Technology in retailing.

References:

- 1.Modern Retail Management – J.N. Jain & P.P. Singh Regal Publications. New Delhi.
2. Retail Management – Suja Nair, Himalaya Publishing House.

COURSE OUTCOME

- C01:** Learn the importance of Retail Marketing.
C02: Discuss the types of Retailing.
C03: Describe Branding in Retailing.
C04: Understand the Communication tools used in Retailing.
C05: Explain the role of Information Technology in Retailing.

Subject: Colour and Lighting
Sub Code: TAK2A

Year : I
Semester : II

Unit I : Colour: Definition, Qualities of colour, Hue, Value, Intensity. The colour wheel/systems - Prang colour system, Munsell colour system, Psychologist colour chart and physicist colour chart.

Unit II : Art principles in colour: Harmony, proportion, balance, rhythm and emphasis. Colour schemes related to colour harmonies.

Unit III : Lighting - Definition – objectives – functions and Importance of lighting. Types of lighting - Natural and Artificial lighting. Methods of lighting- direct, semi-direct, In-direct, semi-indirect, diffused lighting.

Unit IV : Lighting accessories – Selection of lamps and lamp shades. Lighting fixtures – Structural lighting, Free-standing or portable - Table lamp fixtures, Floor lamp, standard lamp fixtures, and office task light luminaries.

Unit V : Colour: Application of colour for various rooms. Light: Requirements for different rooms – living room, dining room, bed room, study room, bath room and kitchen.

Practicals:

1. Prang colour charts, Hue, Value and Intensity.
2. Painting different rooms with various colour harmony.
3. Compiling picture of lighting forms and types.
4. Visit to Lighting showrooms.

References:

1. Judy, M., (1994), How to see, how to paint it, Harpen colling publishers, London.
2. Jan Orcharchd (1993), Lighting for a beautiful Home, Dunestyle publishing Ltd., U.S.A.
3. Seetharam, P and Pannu, P. (2009). Interior Design and Decoration, CBS publishers and distributors, New Delhi.
4. Stewart and Sally .W. (1997). The Complete Home Decorator, Annes publishers Ltd., New York.

COURSE OUTCOME

- C01:** Interpret the Colour concept, qualities and colour chart.
C02: Apply the Art principles in colour schemes.
C03: Analyze the Functions of lighting and methods of lighting.
C04: Examine the Selection of lighting accessories and lighting fixtures.
C05: Criticize the application of colour and light for various rooms.

Subject: Fibre to Fabric
Sub Code: TAK2B

Year : I
Semester : II

Unit I : Introduction to Fibre. Classification of fibres. Natural fibres – Cotton, Silk, Wool – Properties, Manufacturing process and its uses. Classification of yarns based on direction of twist and count – Simple and Novelty yarns.

Unit II : Man Made fibres - Viscose, Rayon, Nylon and Polyester. Properties, Manufacturing process and its uses.

Unit III : Weaving – Parts of a loom, Basic weaving operation. Basic weaves - Plain, Twill and Satin. Fancy weaves- Jacquard and Dobby Weave.

Unit IV : Classification of dyes- Direct, Basic, Acid, Mordant, Naphthol, Reactive and Vat dyes. Methods of dyeing- Stock, Top, Yarn and Piece dyeing.

Unit V : Fabric finishes - Purpose and Use of various finishes, Scouring, Bleaching, Tentering, Calendaring, Mercerizing, Napping and Sanforizing

References:

1. June Fish, (2005). Designing and printing textiles. Crowood press.
2. Marypaul Yates, (2002). Fabrics: A guide for architects and Interior Designers. Norton publishers.
3. Corky Bingelli, (2007). Materials for Interior Environments. John Wiley and sons.
4. Joseph Marjory, (1993). Introductory Textile Science Pinchart & Winstone, Inc., New York.
5. Wigate, (1983). Textile Fabrics and their selection. Prentice Hall Inc., New Jersey.

COURSE OUTCOME

- C01:** Summarize the Properties of Fibre and types of yarn.
C02: Describe the Preparation of natural and manmade fibres.
C03: Examine the Basic weaving operation and basic & fancy weaves.
C04: Apply the various types of dyes and methods of dyeing.
C05: Identify the Fabric finishes with its purpose and use.

Subject: Life Space Planning
Sub Code: TBK2A

Year : I
Semester : II

Unit I : Housing – Selection of site and functions of house. Basic principles of house plans- Orientation, Grouping, Roominess, Lighting, Ventilation, Circulation, Storage Facilities, Privacy.

Unit II : Creating a life space, Factors in planning different rooms – Living Room, Bed Room, Dressing Room, Dining, Kitchen, Study Room, Staircase, Verandah, Store Room, Bathroom, Utility space.

Unit III : Furniture layout on floor plans of Living Room, Bed Room, Study Room and Dining Room. House Plan for Different income groups Vaastu plan homes.

Unit IV : Organizing space plan - One Room Apartment, Twin Houses, Flats, One Storey, Double Storey and Multistory.

Unit V: Building Bye-Law - Definition, Purpose, Housing standards - Carpet area, Built up Area, Principles of town and country planning. Role of governmental and non- governmental agencies.

Practicals:

1. Floor plan for low, middle and high income group.
2. Vaastu House plan
3. Furniture arrangement of living room, bed room, study room, dining and kitchen.
4. Compiling pictures of one storey, double storey and multi-storey house.

References:

1. Prabhakar, L.V. (1998), Vasthu – The user's manual, The Avenue press, Chennai.
2. Riggs, R. (1992), Materials and components of Interior Design, prentice Hall of India Pvt.Ltd, New Delhi.
3. Rao, C.H.G. (1995), Plants for small houses, Jai Ganesh offset Printers, chennai.
4. Faulkner. R, and Faulkner. S. (1987), Inside Today's Home, Rinehart publishing company, Newyork.

COURSE OUTCOME

C01: Determine the principles involved in planning a life space.

C02: Design of life space by implementing the principles.

C03: Analyze different ways of arranging furniture in a given space.

C04: Discuss the types of life spaces and their application.

C05: Understand Building bye laws in designing and constructing buildings.

Subject: Basics of Business Insurance
Sub Code: CNE2B

Year : I
Semester : II

Unit I : Introduction to Insurance - Type of Insurance - Principles of Insurance.

Unit II : Salient features of IRDA act - Administration of IRDA act - regulatory measures of IRDA

Unit III : Life Insurance products – Term, Whole life, Endowment

Unit IV : Introduction to general Insurance - Fire, Marine and motor insurance

Unit V : Government and insurance companies - LIC India - Private players in Insurance in India

References:

1. Dr. N. Premavathy – Elements of Insurance, Sri Vishnu Publications, Chennai.
2. Dr. A. Murthy – Elements of Insurance, Margham Publications, Chennai.
3. M.N. Mishra – Insurance, Principles and practice, S. Chand & Co. Ltd., New Delhi.

COURSE OUTCOME

C01: Discuss the Types of Insurance and Principles of Insurance

C02: Understand the Administration of IRDA Act

C03: Describe Life Insurance Products

C04: Learn the Introduction of General Insurance

C05: Learn the Government and Insurance Companies

Unit I : Floriculture - Meaning concept and importance, ornamental plants – classifications – annuals and perennials. Shrubs and Trees – flowering and foliage shrubs, and trees, climbers and creepers.

Unit II : Flower arrangement – definition, functions, selection of containers, equipments used, styles of arrangement – traditional, modern and Japanese arrangement. Applying art principles in arranging flowers.

Unit III : Flower arrangement – definition, functions, selection of containers, equipments used, styles of arrangement – traditional, modern and Japanese arrangement. Applying art principles in arranging flowers.

Unit IV : Flower arrangement – definition, functions, selection of containers, equipments used, styles of arrangement – traditional, modern and Japanese arrangement. Applying art principles in arranging flowers.

Unit V : Modern trends in gardening – Terrace garden, Rock garden, Bonsai culture, developing ornamental plants in Home garden for flats – roof garden, hanging garden.

Practicals:

1. Making different styles of flower arrangement
2. Drawing different landscape plans.
3. Visit to nursery gardens.
4. Compiling pictures of indoor plants.

References:

1. Ross, R. (1999), colorful gardening – climbers, Ryland peters and small, London.
2. Ross, R. (1999), colorful gardening – Bulbs, Ryland peters and small, London.
3. R.A.Preece,(1992), Designs on the Landscape, CBS publishers & Distributors,New Delhi.
4. Too good, A. (1995), Designing with house plants, Grange Books publication, London.
5. Emma Callery,(1991)The complete book of Gardening,Quinet Publishing limited, London

COURSE OUTCOME

C01: Describe the Concept of Floriculture and ornamental plants.

C02: Experiment various flower arrangement styles and art principles in arranging flowers.

C03: Interpret the Importance of indoor plants in relation to use of lightings, care and use in the interiors.

C04: Create Landscape design with natural and artificial components of landscape.

C05: Apply the Modern trends in gardening and developing ornamental plants in home garden.

Unit I : Fundamentals for interior and exterior treatments. Termite proofing, water proofing, acoustics, thermal comfort, fire protection. Plastering and painting. Factors influencing choice of treatments – climate, cost, style of house and location.

Unit II : Wall finishes – Meaning, Structural wall finishes – Tiles, Wood, Terracotta, Marble wash, Metals and stone finishes. Applied wall finishes – Glass, Paint, Wall papers, Murals, Fabric, Metal sheet and Mirror.

Unit III : Ceiling Finishes – Definition, types, Treatment – plastering, embossing, fresco, glass, false ceilings and other innovative materials.

Unit IV : Floor finishes – Definition, Hard floors- Terrazzo, wood, mosaic, tiles, marble and granite. Semi hard Floors – Vinyl, linoleum, Rubber and cork. Soft floors – Carpets and Rugs.

Unit V : Selection, laying, cost estimation, care and maintenance of wall, Roof/Ceiling and Floor Finishes. Application of various finishes in interior and exterior.

References:

1. Ostrow.J. (2001), Painting rooms, Rockport publishers, USA.
2. Clifton.c.etal, (1995), The Complete Home Decorator, Conran octopus Ltd, London.
3. Spancer, H. and Churchill, (1990), Classic English Interiors, Anaya Publishers Ltd, London.
4. Innes,J. (1990), Exterior Detail, Collins and Brown Ltd, London.
5. Love.G. (2000), Insideout, Conran octopus Ltd, London.

COURSE OUTCOME

- C01:** Apply the Fundamentals of interior and exterior treatments based on climate, cost, style and location.
- C02:** Compare the types of structural and applied wall finishes.
- C03:** Analyze the different treatments of ceiling finish with innovative materials
- C04:** Classify the types of Hard, semi-hard and soft floor finishes.
- C05:** Apply the various finishes based on laying, cost estimation, care and maintenance.

Unit I : Overview of AutoCAD – Purpose, Need, Uses and Applications, General commands – New, Open, Save, Save as, Close and Exit a drawing in AutoCAD, AutoCAD screen components – Title bar, Menu bar, Standard tool bar, Object Properties tool bar, Draw toolbar, Modify tool bar, UCS, Layout tab, Command Window and Status bar.

Unit II : Point fixing methods – Direct method, Absolute Coordinate system, Relative Coordinate system and Polar Coordinate system, Setting up the drawing environment - setting Units, Limits and Paper size, Control Zoom and Pan commands.

Unit III : Working with Drawing Aids – Grid, Snap, Ortho, Osnap, Polar Tracking, Object Snap Tracking, Dynamic Input and Object properties – Colour, Line Type and Line Weight, Use of function keys and shortcut keys.

Unit IV : Draw tools – Line, Pline, Rectangle, Arc, Circle, Polygon, Ellipse and Spline, Text – Style, Mtext, Text edit and Layer concept.

Unit V : Modify tools – Erase, Copy, Move, Scale, Rotate, Mirror, Offset, Chamfer, Fillet, Trim, Extent, Stretch, Array, and Break, Object selection methods.

Practicals:

1. Creating Line, Circle, Arc, Ellipse, Rectangle, and Polygon using different methods.
2. Creating a simple 2D plan using modify tools such as Erase, Copy, Move, Scale, Rotate, Trim, Extend, Array, Offset, Mirror, Break and Stretch
3. Creating text using text style, text edit, line type & line weight
4. Creating a simple 2D plan using layer.

References:

1. Sham Tickoo, Anurag, (2013). AutoCAD 2013. Cad Soft Technologies, Dreamtech Press, New Delhi.
2. Sham Tickoo, D.Saravanan, (2010). AutoCAD 2010. Cad Soft Technologies, Dreamtech Press, New Delhi.
3. David Frey, (2000). AutoCAD 2000.
4. Gokulachari, (Second Edition, 2008). CAD in Civil Engineering Drawing Practice I.
5. K.Venugopal, (Third Edition, 1998). Engineering Drawing with AutoCAD. New Age International (P) Limited.
6. Ilangovan, (Sep 1999). Engineering Drawing with AutoCAD.

COURSE OUTCOME

- C01:** Summarize the benefits, configuration and working requirements of AutoCAD software.
C02: Examine the point fixing methods in AutoCAD
C03: Analyze various tools available for drawing and modifying.
C04: Apply the tools in a drawing.
C05: Design basic plans for different rooms using CAD software.

Unit I : Introduction and Selection of fabric for surface enrichment. Preparation and method of fabric painting.

Unit II : Application of Art Principles and Elements of Design in the fabric.

Unit III : Embroidery - Basic decorative stitches, Applique, Cut work, Drawn thread work, Bead work, Sequins, Mirror work. Various Embroidery of India – Folk embroidery – Phulkarki, Kasuti, Kantha, Quilting, Zardosi and Aaree work.

Unit IV : Methods of printing - Direct, Discharge and Resist style. Types of printing - Block Printing, Stencil Printing, Batik and Tie and dye.

Unit V : Study of space constraints through creating Optical Illusion with various furnishing materials. .Application of CAD in textile designing.

Practicals:

1. Applying art principles and design elements in fabrics
2. Fabric painting.
3. Decorative and Folk embroidery
4. Sketching on space constraints through creating optical Illusion.
5. Block printing and Stencil printing.

References:

1. ShailajaD.Naik, (1997). Folk embroidery and handloom weaving, A.P.H.Publishing corporation, Newyork.
2. JasleenDhamija, (1992). The Indian folk , Arts and crafts, National Book Trust India , New Delhi.
3. Mary Mathews, (1991). Practical clothing Construction – Part 1 & 2, Bhattarams reprographics, Pvt.Ltd., Chennai.

COURSE OUTCOME

C01: Explain the concept of fabric painting method.

C02: Apply design elements and art principles in designing fabrics.

C03: Categorize the decorative embroidery stitches and folk embroidery from different regions of India.

C04: Evaluate the printing methods and select the appropriate method.

C05: Create a textile design using CAD software.

Subject: Kitchen Design
Sub Code: TAK4B

Year : II
Semester : IV

Unit I : Kitchen planning – Functions performed in a kitchen, types of kitchen, principles of planning kitchen – orientation and location, ventilation, storage needs, work triangle, color, light and safety.

Unit II : Kitchen geometry – work heights and space dimension of different work areas and storage areas, anthropometric measurements of an individual worker, work triangle and its application to kitchen layout designing.

Unit III : Materials and finishes – Various materials and finishes used in kitchen – floor, walls, sink, ceiling, platforms, storage and their characteristics.

Unit IV : Modular Kitchen: Characteristics, requirements, Materials used – Wood, Steel and Aluminium.
Electricity services – electric current, exhaust fans, electrical equipment and their locations.

Unit V : Kitchen storage – principles of kitchen storage, storage areas in kitchen and its dimensions, hand operated tools and their location. Care and maintenance of storage.

References:

1. Riggs, R. (1992). Materials and components of Interior Design, Prentice – Hall of India Pvt Ltd., New Delhi.
2. Varghese. M.A. et al., (1994), Ergonomics in Kitchen design, Bombay.
3. Cromwell, L. Weibell, F.J. and Pfeirffer, E.A. (1991). Biomedical Instrumentation and Measurements, Prentice Hall, New Delhi.
4. Chaudhari, S.N. 2006. Interior Design. Aavishkar Publishers, Jaipur.
5. Kasu, A.A. (2005). Interior Design, Ashish Book centre Delhi.

COURSE OUTCOME

- C01:** Summarize the functions performing in Kitchen and need of work triangle.
C02: Draw and Apply the Principles of planning and standards in Kitchen design.
C03: Examine the Material and finishes of kitchen well suited for performance.
C04: Interpret the Current trends in modular kitchen.
C05: Create a Design for storage spaces and their requirements for kitchen.

Unit I : Dimensions – Linear, Align, Angular, Radius, Diameter, Baseline, Continue, Leader. Dimension edit, Dimension styles – Lines and Arrow tab, Fit tab, Primary Units, Alternate Units, Tolerances. To create and insert Blocks and Block edit. Inquiry tools – ID, DIST, AREA, LIST, Hatch & Gradient.

Unit II : 2D to 3D Conversion, 3D Modelling – Toolbars – View, Visual Styles, Modelling, Solid Editing, UCS II and Orbit.

Unit III : 3D Modelling – Types of Models – wireframe model, surface model and solid model, Surface Model – 3D Face, Rule surface, Tabulated surface, Revolve surface, Edge surface and Plane surface.

Unit IV : Solid Model -Creating 3D solids using standard primitives like Box, Wedge, Cylinder, Sphere, Cone, Torus, and Pyramid etc., Creating 3D solids, Boolean operations - Union, Extrude, Subtract, Loft, Revolve, Sweep.

Unit V : Lights – Point light, Spot light and Web light, Materials – Flooring, Wall finishes, Fabric and Metal.

Practicals:

1. Drawing a 2D floor plan with Dimensions
2. Creating a simple 2D plan implementing hatch & gradient
3. Drawing elevation, cross sectional view for the floor plan.
4. Creating 3D solids like Box, Cylinder, Sphere, Torus, Pyramid, Cone etc.
5. Creating 3D solids using Boolean operations such as extrude, subtract, revolve, loft, sweep.
6. Creating a 3D building with doors & window openings.
7. Creating simple furniture with material application using 3D commands.

References:

1. Sham Tickoo, Anurag, (2013). AutoCAD 2013. Cad Soft Technologies, Dreamtech Press, New Delhi.
2. Sham Tickoo, D.Saravanan, (2010). AutoCAD 2010. Cad Soft Technologies, Dreamtech Press, New Delhi.
3. David Frey, (2000). AutoCAD 2000.
4. Gokulachari, (Second Edition, 2008). CAD in Civil Engineering Drawing Practice I.
5. K.Venugopal, (Third Edition, 1998). Engineering Drawing with AutoCAD. New Age International (P) Limited.
6. Ilangoan, (Sep 1999). Engineering Drawing with AutoCAD.

COURSE OUTCOME

- C01:** Examine the advanced tools used for 2D drafting of house plans.
- C02:** Summarize the advantages of 3D models of objects over 2D drafting.
- C03:** Classify various toolbars required for creating 3D models.
- C04:** Apply the 3D tools in exterior and interior models.
- C05:** Design building model and its interiors.

SKPDC

UNIT I: Multidisciplinary nature of environmental studies; Scope and importance; concept of sustainability and sustainable development.

UNIT 2: What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: Food chains, food webs and ecological succession,

Case studies of the following ecosystem:

- a) Forest ecosystem
- b) Grassland ecosystem
- c) Desert ecosystem
- d) Aquatic ecosystem (ponds, stream, lakes, rivers, ocean, estuaries)

UNIT 3: Land resources and land use change: Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and over – exploitation of surface and ground water, floods, droughts, conflicts over water (international and inter – state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

UNIT 4: Levels of biological diversity: genetics, species and ecosystem diversity, Bio geographic zones of India: Biodiversity patterns and global biodiversity hot spots India as a mega-biodiversity nation, Endangered and endemic species of India. Threats to biodiversity: Habitat loss, poaching of wild life conflicts, man- wildlife conflicts, biological invasions; Conservation of bio diversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and bio diversity services: Ecological, economic, social, ethical, aesthetic and informational value.

UNIT 5: Environmental pollution: types, causes, effects and controls: Air, water, soil and noise pollution. Nuclear hazards and human health risks. Solid waste management: Control measures of urban and industrial waste. Pollution case studies.

UNIT 6: Environmental policies and practices: Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment laws: Environment protection Act, Air (prevention & control of pollution) Act; water (prevention & control of pollution) Act; Wild life protection Act; Forest conservation Act. International agreements: Montreal and Kyoto protocols and convention on biological diversity (CBD). Nature reserves, tribal populations and rights, and human wildlife conflicts in India context.

UNIT 7: Human communities and the environment: Human population growth, impacts on environment, human health and welfare. Resettlement and rehabilitation of projects affected persons; case studies. Disaster management: floods, earthquake, cyclone and landslides. Environmental movements: chipko, silent valley, Bishnois of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi)

UNIT 8: Visit to an area to document environmental assets: rivers / forest/ flora / fauna etc. Visit to a local polluted site – Urban / Rural / Industrial / Agricultural. Study of common plants, insects, birds and basic principles of identification. Study of simple ecosystem – pond, river, Delhi Ridge etc.

Suggested Readings:

1. Carson R 2002 Silent Spring Houghton Mifflin Harcourt
2. Gadgil M. & Guha R. 1993. This Fissured land: An Ecological History of India. Univ. of California Press.
3. Glesson B and Low N (eds.) 1999. Global Ethics and Environment, London Routledge.
4. Gleick P.H 1993. Water Crisis. Pacific Institute for Studies in Dev., Environment and Security. Stockholm Env. Institute, Oxford Univ. Press.

COURSE OUTCOME

- CO1:** Discuss Scope and importance of EVS.
- CO2:** Create Public Awareness on environmental issues.
- CO3:** Explain Structure and functions of ecosystem.
- CO4:** Enumerate Renewable and non-renewable natural resources.
- CO5:** Describe Biodiversity, environmental pollution, environmental policies and practices.
- CO6:** Explain Link between human communities and the environment.

Subject: Ergonomics
Sub Code: TAK5A

Year : III
Semester : V

Unit I : Definition, Concept, scope and general applications of ergonomics. Ergonomic characteristics of place, things and activity. General ergonomic consideration in the design of work place.

Unit II : Work- analysis of each task, content of job, Worker – emotional component, cognitive component, temporal component, physical component.

Unit III : Anthropometry – Anthropometric dimension of workers at work and at rest, normal and maximum vertical and horizontal reaches, and work heights.

Unit IV : Work Environment- Temperature- Air movement, humidity, exchange of heat between human body and surroundings. Thermal properties of flooring, Noise- Definition, outdoor and indoor noise, acoustics.

Unit V : Posture: Meaning, Types –Good and Bad posture, posture involved in different activities. Stress and stress management: Meaning, causes, Types, symptoms, stress related problems and stress coping techniques.

References:

1. Varghese.M.A. etal., (1994), Ergonomics in Kitchen design, Bombay.
2. Cromwell, L. Weibell, F.J. and Pfeirffer, E.A. (1991) Biomedical Instrumentation and Measurements, Prentice Hall, New Delhi.
3. WHO in collaboration with IEA, (2010). Ergonomic checkpoints: Practical and easy-toimplement solutions for improving safety, health and working conditions. Second edition.
4. Stephen Konz and Steve Johnson (2007). Work Design: Occupational Ergonomics 7th Edition.
5. Holcomb Hathway Dul & Weerdmeester (2003). Ergonomics for Beginners Taylor & Francis.
6. McKeown & Twiss (2001). Workplace Ergonomics: A Practical Guide IOSH services.
7. R.S.Bridger (2003). Introduction to Ergonomics Taylor & Francis.
8. Wilson & Corlett (2005). Evaluation of Human Work Taylor & Francis.

COURSE OUTCOME

C01: Describe the basic ergonomic factors and related problems in a workplace.

C02: Understand and Recall the Anthropometry dimensions.

C03: Apply basic knowledge of physical factors affecting human beings in relation to light, sound, noise, climate and vibrations.

C04: Analyze the problems of given workplaces and workspaces.

C05: Apply relevant ergonomic principles and factors to the solutions of given workplaces.

Subject: Basics of Nutrition
Sub Code: TAK5B

Year : III
Semester : V

Unit I : Importance of foods. Basic five food groups, My plate. Energy (carbohydrate), body building (protein), Fat and protective foods (vitamins & minerals).

Unit II : Methods of cooking – dry heat methods – roasting, broiling, baking, frying; moist heat methods – boiling, simmering, blanching, steaming, pressure cooking, poaching, stewing – advantages and disadvantages. Planning balanced diet.

Unit III : Recommended dietary allowance for infants, preschool, school going, adolescents, adults, old age, pregnant and lactating mothers.

Unit IV : Principles of Menu, Vitamin Deficiencies and Mineral Deficiencies - Iron and Calcium.

Unit V : Life style disorders - Obesity, Cardio vascular disease (CVD) and Diabetes Mellitus.

References:

1. F.R. Antia (2000). Clinical nutrition. Oxford University Press, London, New York.
2. Krause, M.V. and Maham, M.A. (1992). Food, Nutrition and Diet Therapy W.B. Saunders company, Philadelphia, London Toronto.
3. Swaminathan, M. (2000). Principles of nutrition and dietetics, BAPPCO, Mysore Road, Bangalore.
4. Guyton, (1992). A.C. Human Physiology and Mechanisms and Diseases. W.B. Saunders and Co., Philadelphia.
5. Vander, A.J. Sherman, J.H and Luciano, (1990). D.S. Human physiology - The Mechanisms of Body functions, TMH Publishing Co. Ltd., Delhi.

COURSE OUTCOME

C01: Summarize the concept of Balanced diet and acquiring Knowledge on energy, body building, fat and protective foods that enhance physical health.

C02: Apply the Methods of cooking involved in enhancing the quality of food.

C03: Use the RDA of different age group to meet their standards of nutrition.

C04: Evaluate dietary modification for Deficiency disorders by planning nutrient rich food.

C05: Appraise dietary modification for lifestyle disorders (obesity, cardio vascular disease and diabetes mellitus).

Unit I : Furnishings- Importance of furnishing, Classification, Selection criteria in relation to backgrounds in Walls, Floors and Ceilings. Soft Floor Coverings – Types and Selection of Rugs and Carpets.

Unit II : Window Treatments – Hard window treatment – Blinds, Shutters, Screens, Panels, Shades and Curtains. Soft window treatment - Curtains and Draperies. Styles of hanging Curtains – Tie- Backs, Café, Ruffles, Tier. Decorative curtain heads – Valence, Cornice, Swags and Cascade.

Unit III : Construction of furnishings: Selection, Use and Care of Sewing machine and sewing tools .Study of Basic hand stitches – Temporary and Permanent. Seams and Seam finishes.

Unit IV : Steps involved in fabric preparation. Methods of transferring pattern markings onto the fabric. Methods of Drafting Curtains, Draperies, Pillow Covers, Slip Covers and Cushion Covers.

Unit V : Care and Maintenance of soft furnishings – Curtains, Draperies, Carpets and Rugs. Mending, Darning, Laundering, and Storage of furnishings.

Practicals:

1. Basic hand stitches.
2. Seams and Seam finishes
3. Construction of different types of Curtains.
4. Construction of Pillow and Cushion Covers.
5. Styles of hanging curtains.

References:

1. Philips B, (2000). Hamlyn book of decorating, octopus publishing Ltd, London.
2. Clifton.c. etal (1991). The complete Home decorator conran octopus Ltd, London.
3. Luke. H., (1996). Soft furnishings, New Holland publishers Ltd, Singapore.
4. Wilhide, E and Copestick, I. (2000). Contemporary decorating, conron octopus Ltd., London.
5. Levine M (1998). Living rooms, Rockport publishers, USA.
6. Hary Mathews, (1996). Practicals Clothing Construction Part I and Part II Cosmic Press.

COURSE OUTCOME

- C01:** Analyze the Importance and selection of furnishing materials in relation to backgrounds on walls.
- C02:** Apply the Hard and soft window treatments for interiors.
- C03:** Create furnishings using sewing machine and basic hand stitches.
- C04:** Compare the Methods of drafting, pattern marking for various soft furnishings.
- C05:** Summarize storage, care and maintenance of various soft furnishings.

Unit I : Introduction to Art, Meaning and significance of art in the home. Basic guidelines in evaluating art objects. Glass – Enrichment of glass – etching, engraving, cutting, enameling, painting, use of glass in home.

Unit II : Shaping and Enrichment of different materials. Metals and Alloys - aluminum, bronze, brass, silver, copper and gold. Ceramic – definition, ornamentation on ceramics – Earthenware, Stoneware, Porcelain, Mosaic and Terracotta.

Unit III : Wood Carving, Inlay, Lacquering. Shaping of metal, damascening, enameling, wood & metal work in India. Crafts, Fabric painting, Glass painting, oil painting.

Unit IV : Recycling waste for craft work for interior decoration. Collage - Origin and Growth, modern collage work. Papier Mache - Origin, Papier Mache from various parts of India.

Unit V : Sculpture- Meaning, Modeling and molding, use of sculpture at home, care, use and maintenance. Drawing-Meaning, tools and Techniques of drawing Painting- tools, canons of painting, types, use, care and maintenance.

Practicals:

1. Drawing different designs with different tools — Pencil, Pen, crayon, charcoal, ink, and chalk.
2. Mosaic – Creating art pieces with mosaic
3. Painting using different media – water, oil, fabric and stenciling.
4. Collage work – Posters, wealth out of waste.
5. Visits to various craft fairs and compilation of materials.

References:

1. Ruddick Bloom, Susan (2006). Digital Collage and Painting: Using Photoshop and Painter to Create Fine Art. Focal Press. ISBN 0-240-80705-7.
2. Crafts and Hobbler, (1991). Reader's Digest.
3. Mark Jarzombek, (September 2001). "Bernhard Hoesli Collages/Civitas," Bernhard Hoesli: Collages, exh. cat., Christina Betanzos Pint, editor (Knoxville: University of Tennessee), 3-11.
4. Juliet Bawden, The Art and Craft of Papier Mache. Pub: by Mitchel Beazley, USA.
5. Errol Manners, Ceramics Source Book. Chartwell Books - 110 enterprises Avenue, Secaucus, New Jersey 07094.

COURSE OUTCOME

- C01:** Understand the Significance and evaluation of art objects.
- C02:** Discuss the shape and enrichment of different materials like ceramics, metals and alloys.
- C03:** Describe Wood and metal work in India and different kinds of painting.
- C04:** Identify and establish a sensitized approach regarding pollution prevention, reduction of waste, recycling and reuse of materials and energy.
- C05:** Understand the concept of drawing, sculpture and various techniques of drawing.

SKPCC

Subject: Communication and Graphic Design
Sub Code: TEK5A

Year : III
Semester : V

Unit I : Meaning of Communication - Definition, Characteristics, Elements and types of communication. Mode of communication - Books, Newspapers, Film, Cinema, Radio and Television, mobile phones and internet.

Unit II : Communication Process, audio-visual aids, Mass media production, Barriers in Communication – Definition, types and overcoming the barrier of communication. Tools of communication. Advantages of effective communication.

Unit III : Graphic Design – Introduction, Role of design in society – Impact and function of design, Printing / publishing technology, Types - Booklets, Brochures, Folders, Posters. Role of design in the changing social scenario. Role and responsibility of Designers.

Unit IV : Advertising – Definition, Advantages and disadvantages, Role of a advertising in modern life - Advertising appeals, Advertising through Print Media, Outdoor Advertising. Evolution of logos

Unit V : Photography –Definition, Photographic processes - A basic Understanding. Camera - Functions and uses. Calligraphy and Typography - various aspects.

Practicals:

1. Prepare flash cards, all types of charts, graphs, Bulletin Board, Black Board.
2. Prepare models, specimens, cartoons and comics.
3. Basic design exercises – Elements and Principles and designing a logo.
4. Decorative Handwriting - Block, straight, gothic, fancy, Calligraphy and Typography.
5. Photograph to be compiled on given themes.

References:

1. Jaspreet Berry, Fundamentals, Theory and Practice.
2. Dahana O.P. and Bhatnagar, (1980). Education and Communication for Development, Oxford & IBM Publishing Co. New Delhi.
3. Kanel Kumar, Mass Communication.
4. Mehta, Mass Communication.
5. Best Logos, Prints.
6. Uma Narula, Mass Communication - Theory & Practice.
7. Denis Macquail, Media Programmes.
8. Fred. E. Jannot, Inter Cultural communication and Introduction.
9. Johnson, Encyclopedia of Typefaces.

COURSE OUTCOME

- C01:** Understand the meaning, characteristics, elements and mode of communication.
- C02:** Describe the Barriers in communication and apply ways of overcoming barriers in communication.
- C03:** Discuss the Impact and functions of Graphic design.
- C04:** Identify the Role of advertisement in modern society.
- C05:** Experiment the photographic process and thereby learning the basics in photography

SKPDC

Subject: Value Education
Sub Code: VAE5Q

Year : III
Semester : V

Unit I : Value education – its purpose and significance in the present world- Value system – the role of culture and civilization-Holistic Living-Balancing the outer and inner- Body, Mind and intellectual level-Duties and responsibilities.

Unit II : Salient values for life- Truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity and inclusiveness, Self-esteem and Self-confidence, punctuality - Time, Task and Resource management- Problem solving and Decision-making skills – Inter personal and Intra personal relationship – Team work – Positive and Creative thinking.

Unit III : Salient values for life- Truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity and inclusiveness, Self-esteem and Self-confidence, punctuality - Time, Task and Resource management- Problem solving and Decision-making skills – Inter personal and Intra personal relationship – Team work – Positive and Creative thinking.

Unit IV : Environment and Ecological balance – interdependence of wellbeing – living and non – living. The binding of man and nature – Environment conservation and enrichment.

Unit V : Social Evils – Corruption, Cybercrime, Terrorism – Alcoholism, Drug addiction, Dowry – Domestic violence – Untouchability – Female infanticide – atrocities against Women – How to tackle them.

COURSE OUTCOME

- CO1:** Discuss Self-esteem, ego, anger manifestation, Indian ethos in ethics and individuals personality in the eyes of others
- CO2:** Describe Leadership, ethical business decisions, basic principles of professional ethics and mass media ethics.
- CO3:** Explain Effects of advertising, value of faith, social awareness and commitment and the steps for the protection of environment
- CO4:** Analyse Impact of globalization and consumer awareness, signs for an everlasting peace, evolution of human rights and the international law in operation
- CO5:** Discuss Intellectual activities and responsibility of citizen

Subject: Resource Management
Sub Code: TAK6A

Year : III
Semester : VI

Unit I : Management – Definition and meaning, Concept of Management, Management process, Micro and Macro environment, system approach . Values, Goals and Standards in relation to the management process.

Unit II : Planning –types and importance, controlling the plan –Adjusting, Supervising and checking and types of Evaluation.

Unit III : Decision Making: Process of decision making, Types of decisions, Methods of resolving conflicts. Resources: Definition, Meaning and classification of resources.

Unit IV : Time Management: nature of time as a resource, peak load, work curve, rest period. Energy management: Fatigue, Work simplification – definition, Mundel’s classes of change. Principles of body mechanics, Work simplification techniques.

Unit V : Money Management: Definition and Types of income. Budget – advantages and disadvantages, planning a budget for a family, methods of handling money. Maintenance of records – income and expenditure account, general ledger and balance sheet. Savings scheme.

Practicals:

1. Managing resources for special occasions.
2. Pathway and process chart
3. Gantt chart
4. PERT analysis
5. Construction of Budget for different income groups

References:

1. Gross, (1972). Crandall - Management for Modern Families, 4th Edition, Appleton Century Crofts Inc.
2. Nickel P. and Dorsey J.M, (4th edition,1991). Management in Family Living, Wiley and Eastern, New Delhi.
3. Fontana, David, (1996). Managing time/ - New Delhi: Excel Books.
4. Nickell, Paulena, (4th edition, 1987). Management in family living. New Delhi: Wiley Eastern Ltd.
5. Bharathi. V.V.Jacinta, (1994). M - Family resource management: (new concepts and theory). New delhi: discovery pub. House.
6. Mundel,Marvin E, (5th edition, 1981). Motion and Time study: Improving productivity. New Delhi : prentice hall of india pvt ltd.
7. Tripathi P.C.&P.N.Reddy (2000). ‘Principles of Management’ New Delhi: Tata McGraw-Hill Publication Company Limited.

COURSE OUTCOME

- C01:** Understand Management process to improve goals and standards.
- C02:** Examine the resource management.
- C03:** Apply Decision making in right time and at right place.
- C04:** Apply Simplified work to reduce time and energy.
- C05:** Analyze Handling of money income and maintain records in proper way to enhance savings.

SKPCC

Unit I : History of Furniture Design and Different styles of furniture-William & Mary period, Queen Anne period, Chippendale, Hepplewhite, Sheraton, Adam furniture, American colonial, British and contemporary furniture.

Unit II : Factors influencing the selection of furniture –comfort, expressiveness, style, beauty, utility, family needs and preferences. Ergonomic principle of designing furniture.

Unit III : Materials– Wood, Glass, Metal, Plastics. Finishes- Shaping, Carving, Tapestry and Upholstery.

Unit IV : Types of furniture – Built in furniture – Movable furniture –Upholstery furniture - Sectional furniture - Systems furniture – Readymade furniture.

Unit V : Designing of Residential Furniture- Wall cabinet, TV Show cases, sofa, Dining table, study table, center table, children furniture and multipurpose furniture. Care and maintenance of furniture.

Practicals:

1. Styles of furniture sketching.
2. Measured drawing of furniture.
3. Kitchen cabinets and Showcase drawings.
4. Designing of furniture.
5. Model making.

References:

1. Interior Design, (1996) John F. Pile, Harry N. Abrams Inc Publishers, New York
2. Residential Interior Design Course, (2001) Maureen Mitton, Courtney, John Wiley & Sons., London
3. The Encyclopedia of Furniture, (1997) Joseph Aronson, Crown Publishers, New York
4. Interior Design & Decoration, Premavathy Seetharaman and Parveen Pannu (2000), Prentice Hall
5. Interior Design, (2012) Francis D.K. Ching, John Wiley & Sons, New York
6. Time Saver Standards for Interior Design (2000), Joseph De Chiara, McGraw Hill, New York.

COURSE OUTCOME

C01: Recognize history of various styles of furniture design like Chippendale, Hepplewhite.

C02: Understand the Factors influencing the selection of furniture for various uses.

C03: Understand Material choice and finishes of furniture.

C04: Identify Different types of Furniture and its uses.

C05: Develop new ideas to design furniture in residential spaces by implementing ergonomic principles.

Unit I : Genesis of Arts – the concept and meaning of arts. The presence of the past – stone age beginnings, Ancient Egyptian Art. Arts and society, Unity and Diversity, Time, Place and Idea

Unit II : Sculpture and painting in West - The Classical Period – The Hellenic Style, The Hellenistic Style, The Roman Style. The Medieval Period – The Early Roman Christian and Byzantine Styles, the Feudal Style and the Gothic Style.

Unit III : The Renaissance Period – The Early and High Italian Renaissance, The Florentine Renaissance Style. The Roman Renaissance Style – Rome, Early 16th Century – Tomb of Julius and the Dome of St. Peter's. Baroque.

Unit IV : The Revolutionary period – The Neoclassical Period, The Romantic Style, The Realistic and Impressionistic Styles, The 20th Century styles, Art Styles.

Unit V : Architectural Features - Sun temple, Lingaraja temple, Tajmahal, Lotus temple , Meenakshi Amman temple and Mahabalipuram.

Practicals:

1. Drawing Pictures of 2D and 3D art.
2. Visit to Art / Craft museum / Art Galleries
3. Photo coverage – Field trip.
4. Pencil Sketches

References:

1. Gombrich, (1955). E.H : Story of Art, Phaidon Press Ltd., New York.
2. Janson, (Sixth Edition, 2001). H.W: History Of art, Thames and Hudson Ltd., London.
3. Gair, A, (1999) Artists' Manual, Hopper Collins Publishers, London. 2. Holt, F.T. and Smith, S.
4. The Artists Manual – Equipments, Materials, Techniques, Grange Books, London.
5. Malhotra and Malhotra, (2001). Drawing Techniques, Blue bird books, Delhi.
6. Monahan, P., Seligman, P. and Clouse, W. (2003). Arts School – A Complete Painters Course, Chancellor Press, London.
7. Stanyer, P. (2003). The Complete book of Drawing Techniques, Areturus Publishing Limited for book mark limited, Leicester.

COURSE OUTCOME

C01: Interpret the genesis of art from Stone Age.

C02: Distinguish the features of different styles in sculpture and paintings in western styles.

C03: Examine the art styles in the Renaissance period.

C04: Analyze the art styles from revolutionary period.

C05: Summarize the architectural features of famous temples of India.

Unit I : Entrepreneur - Evolution of the concept of Entrepreneur and Entrepreneurship, Characteristics of an entrepreneur, functions of an Entrepreneur , Types of Entrepreneur.

Unit II : Small enterprises - Definition, characteristics, Relationship between small and large Units. Role of Small enterprises in economic development, and problems of small scale industries. Subsidies and incentives.

Unit III : Project - Meaning of Project, Project Identification, project selection. Project Proposal - Meaning of project Report, significance of project report, content of a project report and formulation of project report. Training and Development of project.

Unit IV : Institutional Finance to Entrepreneurs - Commercial Banks, Other Financial Institutions- IDBI, IFCI, ICICI, IRBI, LIC, UTI and SFCs.

Unit V : Marketing Management - Concept of Marketing, Functions of marketing, Market Assessment and segmentation. Marketing Mix. Distribution channels , Branding, Labeling and Packaging.

References:

1. Bolton, B. & Thompson, J (2001). Entrepreneurs: Talent, Temperament, Technique, Replika Press Private Ltd, Delhi, 110 040, India.
2. Taneja, S. & Gupta, S.L. (1992). Entrepreneurship Development, New Venture Creation, Galgotia Publishing Company, New Delhi.
3. Hisrich, R.D. & Peters, M.P, (1995). Entrepreneurship: Starting, Developing and Managing a New Enterprise, Richard, D. USA, Irwin, INC.
4. Desai, V. (1991, 97, 99, Vol I & II,) Entrepreneurial Development, Himalaya Publishing House. Mumbai.
5. Vasant Desai, (2006), Small-Scale Industries and Entrepreneurship, Himalaya publishing house.Mumbai.
6. S.S.Khanka, S. Chand, (2001), Entrepreneurial Development, New Delhi.
7. Botswana, (1992) - Arable Lands Development Project, [076-BT](#)% R076BTBE, Interim Evaluation.

COURSE OUTCOME

- C01:** Understand the Concept of entrepreneur and entrepreneurship with its characteristics, functions and types.
- C02:** Evaluate the Role of small enterprises in economic development and problems.
- C03:** Understand the Concept of Selection, significance, content, identification of project and can also be able to create project report.
- C04:** Remember the financial institutions offering finance to entrepreneurs.
- C05:** Understand the concepts of marketing management and marketing mix.

Unit I : Introduction to front office, layout of front office and different front office equipment, importance of hospitality industry, duties and responsibility, ideal qualities of a front office staff and job description of a front office assistance.

Unit II : Introduction to House keeping - Objectives, Organization, Structure of Housekeeping department (small, medium, large), duties of Housekeeping personnel, Housekeeping as a Profession.

Unit III : Housekeeping in different Institutions- commercial sector and welfare sectors, housekeeping Co-ordinates with—reception, catering, Interior Decoration and other related departments.

Unit IV : Functions of Housekeeping department- Desk control, records and registers, key types and control of keys, service pantry-location and essential features, lost and found, fire, emergency and first aid.

Unit V : Cleaning equipment – Selection of equipment, brooms and brushes, protective equipment, clothes used in cleaning, box sweeper, electric equipment, vaccum cleaner. Cleaning agent - Solvents grease absorbents, disinfectants, antiseptics, soaps, detergents, polishes & storage. Stain removal techniques.

Practicals:

1. Arrangement of front office.
2. Bed making.
3. Arrangement of Guest room.
4. Stain removal, washing, drying, ironing, folding, storing of various types of fabrics and garments.
5. Visit to Housekeeping departments in various sectors.

References:

1. Branson,J.C.&Lennox, M (1992), Hotel, Hostel and Hospital Housekeeping, Arnold Heinnaman, U.S.A.
2. Lillicrap,D.R and Cousins,J.A (1994), Food and beverage service, London.
3. Faulkner,R. and Faulkner,S. (1997), Inside Today's Home, Rinehart Publishing company, New York.
4. Binnie,R and Boxal, D.J, (1992), Housecraft Principles and Practice, Pitman Publishing, London.

COURSE OUTCOME

- C01:** Understand the Concept, Scope, importance of front office and Qualities, duties, responsibility of front office.
- C02:** Understand the Objectives of housekeeping and executing the organizational structure of housekeeping.
- C03:** Develop Skill in the field of housekeeping both in commercial and welfare sectors.
- C04:** Understand and apply the Functions of housekeeping department.
- C05:** Examine the Selection of cleaning equipments and applying the learning skills in maintaining these equipments.

SKBPC