### BHARATHIAR UNIVERSITY, COIMBATORE

B.Sc., INTERIOR DESIGN WITH COMPUTER APPLICATIONS DEGREE COURSE & COMPULSORY DIPLOMA IN COMPUTER AIDED DESIGN AND DRAFTING

SCHEME OF EXAMINATION - CBCS PATTERN

For the students admitted during the academic year 2008 – 2009 batch onwards

<table>
<thead>
<tr>
<th>Part</th>
<th>Study Components</th>
<th>Course title</th>
<th>Ins. hrs/week</th>
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@ No University Examinations. Only Continuous Internal Assessment (CIA)  
# No Continuous Internal Assessment (CIA). Only University Examinations.

#### List of Elective papers (Colleges can choose any one of the paper as electives)

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<thead>
<tr>
<th>Elective – I</th>
<th>A</th>
<th>Introduction to textiles and clothing</th>
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<td>Environment Control in interiors</td>
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<td>C</td>
<td>Introduction to Green Building Technology</td>
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SEMESTER - I

CORE PAPER I  FUNDAMENTALS OF DESIGN

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course presents the development of Interior Design concepts, explaining the elements of design and principles of design and their application in the interiors.

GOALS:
To enable the students to understand the elements and principles of design.

OBJECTIVES:
On successful completion of the course the students should have
Developed design for application – innovation in design.
Learnt the importance of art elements in the creation of new design.
Learnt to apply the principles of design in creating beautiful interiors and in displaying the art objects.

UNIT I
Development of Interior design concepts – a historic review. Place of interior decoration in the modern era – changing trends and salient features. Role of good taste – meaning and importance. Need for developing skill in aesthetics

UNIT II
Design – Definition, meaning, Purpose. Types and classification of design – structural and decorative – characteristics

UNIT III
Elements of design – Line and direction, form and shape, size, colour, light, ornamentation, texture and space – Application of elements to form designs.

UNIT IV
Principles of design – Balance, rhythm, emphasis, harmony, proportion - meaning and application of design concepts in the interior and exterior houses and other commercial buildings. Development of design from motives and application.

UNIT V
Man as a consumer of design, qualities and role of a good interior designer, interior design – career options. Application of design in interior decoration.

REFERENCES
1. Levine, M (1988) Living rooms, Rockport publishers, USA

RELATED EXPERIENCES
1. Developing designs for application – innovations in design
2. Developing artistic ability in drawing
3. Display of art object - using principles of design
4. Arranging different areas in a house
5. Project work.

JOURNALS
   Inside outside
   Women’s era
   Architecture and design

CORE PAPER II   COLOUR AND LIGHTING

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
   This course contains the concept of colour, emphasizing the usage of colour in interiors, explaining the importance of lighting.

GOALS:
   To enable the students to learn the concept of colour systems and lighting.

OBJECTIVES:
   On successful completion of the course the students should have understood the concept of colour and preparing a colour wheel.
   Learnt the application of colour harmonies in the interiors and exteriors.

UNIT I
   Concept of colour. Significance of colour in the interiors and exteriors – Dimensions of colour – Hue, value and intensity – Effects of Hue, value and intensity.

UNIT II
   Colour systems – Prang, Munsell and Ostwald – Planning colour harmonies- related and contrast – Factors considered in selecting colour harmonies.

UNIT III
   Application of colour harmonies in the interiors and exteriors – Effect of light on colour – illusion of colour, psychology of colour.
UNIT IV
Importance of lighting – Artificial lighting – Light sources, types and uses of light, specific factors in lighting – measurement of lighting and economy in lighting, psychological aspects of light, Avoidance of glare – Glare- its types and prevention

UNIT V
Affiliation accessories - Lighting fixtures – Lighting for areas and specific activities.

REFERENCES

JOURNALS
Inside Outside
Design and Interiors
Society interiors

RELATED EXPERIENCES
1. Preparing a colour wheel
2. Visit to different houses and public places to see the use of colors and lighting.
3. Visiting lighting shops
4. Collecting various types of lighting fixtures, lamps, etc., and making an album

ALLIED SUBJECT I – FURNITURE IN INTERIORS.

NUMBER OF CREDIT HOURS: 6

SUBJECT DESCRIPTION :
This course presents styles of furniture, selection and arrangements, and furniture construction.

OBJECTIVES:
To enable the students to learn about the types and importance of furniture, know about the selection, care and arrangement of furniture.

UNIT I
Styles of furniture – traditional, contemporary and modern design.
Furniture for different purpose – meaning need, factors influencing – climatic condition, family needs and preferences, availability, principles of design and financial limit.

UNIT II

UNIT III
Selection and arrangement – buymanship, arrangement of furniture for various rooms – Living room, dining room, bedroom, kitchen, study room, office.

UNIT IV
Construction features of furniture – shaping, carving, turning, fluting, reeding, joining and finishes, upholstering – techniques and designs.

UNIT V
Care and maintenance – wooden furniture, wicker and cane, metal furniture, plastic, upholstered furniture, wood finishes and furniture polishes.

REFERENCES :
3. Levine M (1998), Living rooms, Rockport publishers, USA.

RELATED EXPERIENCES
1. Developing furniture design and evaluating them
2. Practicing care and maintenance of furniture
3. Field trips to furniture mart and well furnished houses.
4. Compile an album on furniture arrangements in various rooms.

JOURNALS
Society Interiors
Design and Interiors
Inside Outside
SEMESTER II

CORE PAPER III  PLANNING THE LIFE SPACE

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course presents the concept of life space, importance, principles of planning a house and division of space.

GOALS:
To understand the significance of house.

OBJECTIVES:
Developed skill in house plan for different income groups.
Acquired knowledge in recent building materials and raising fund from various agencies to construct a house.

UNIT I
Space for living – Concept of space – factors influencing living space, requirements, need for space, space occupancy, ownership, style and other general factors.

UNIT II
Significance of housing – functions of house, selection of site, Types of house plans-site plan, floor plan, elevation plan, cross-section plan, perspective plan and landscape plan, Principles of planning a house to suit the basic requirements, components attributed to livability in life space – comfort, convenience, safety, workability, maintenance, lighting, satisfaction - in individual houses, multi-storied flats, row houses.

UNIT III
Division of space – Private, public, work and traffic – definition, utility, determinants, general principles in planning space for various activities.

UNIT IV
Materials and methods of Construction – Classification, materials and finishes for wall, floor and ceiling, types of construction – meaning, basic knowledge in different types of construction – cast in site – prefabrication – advantages and limitations.

UNIT V

REFERENCES:

RELATED EXPERIENCES
1. Developing house plans for different income groups.
2. Market survey to acquire Knowledge in recent building materials
3. Visiting different houses and public places to see the different methods of construction and styles.
4. Visit to funding agencies

JOURNALS
- Inside outside
- Family housing
- Indian Design & Interiors

ALLIED SUBJECT II – SOFT FURNISHINGS

NUMBER OF CREDIT HOURS – 7

SUBJECT DESCRIPTION:
This course presents the meaning and importance of soft furnishings, types of window treatments and care of soft furnishings.

OBJECTIVES:
To enable the students to learn about types of windows and window treatments. Develop skills in construction of curtains.

UNIT I

UNIT II
Window Treatments – Types of windows, curtains, draperies, hanging curtains, pelmets and valances, accessories, blinds, shades.

UNIT III
Cushion, cushion covers, slip covers, bed linens, Table linens.

UNIT IV
Carpets and rugs – types, selection, and laying

UNIT V
Care and maintenance of soft furnishings – stain removal, mending and darning, laundering, storage of furnishings.
REFERENCES:

RELATED EXPERIENCES:
1. Construction of furnishing materials – curtains, draperies, napkins, towels, cushion cover
2. Construction of curtains – different types of pleat
3. Visiting furnishing shops and well furnished houses

JOURNALS
- Colourage
- Society interiors
- Inside outside

CORE PRACTICAL - I - DESIGN CONCEPTS

NUMBER OF CREDIT HOURS: 2

SUBJECT DESCRIPTION:
This practical paper contains the design development, motif development, display of art objects, arranging different areas of an interior.

OBJECTIVES:
To draw different types of design, develop design by using motifs.
Acquire skill in arranging different areas of a house by using principles of design.

CONTENTS
1. Draw structural/ decorative design and comment on its features.
2. Draw a decorative design of your own interest by showing the method of application in greeting card/ saree border/ art object
3. Evaluate the given art objects.
4. Develop a motif suitable for foot mat/ window grill/table mat/furnishing materials.
5. Display art objects showing the principle of design.
6. Display handicrafts/ textiles showing any principles of design.
7. Arrange a living room/ drawing room/ pooja room/bedroom/Adolescent boy/girl’s room/ children’s room showing any colour harmony and principles of design.
8. Arrange a birthday party for a preschool child.
9. Arrange an area for multipurpose activities.
10. Make a flower arrangement suitable for the given area and floor decoration.
ALLIED PRACTICAL I – FURNITURE AND FURNISHINGS

NUMBER OF CREDIT HOURS : 2

SUBJECT DESCRIPTION
   This practical paper contains the designing of furniture for various purposes and construction of curtains and draperies.

OBJECTIVES:
   To enable the students to draw different types of furniture and evaluating them.
   Develop skill in construction of soft furnishings and types of pleats.

CONTENTS
   1. Draw different types of furniture with regard to activity
   2. Evaluate the given furniture in terms of materials, construction details, uses care and maintenance, age group, hours of use, durability, budget.
   3. Construct curtains, cushions pillow covers with different types of pleats.
   4. Drawing of furniture templates.
   5. Placement of furniture in various rooms – living room, bed room, dining room
   6. Types of stitches
   7. Preparation of records – collection of furniture for different activities, different materials, market survey of furniture, making cutouts of furniture.

SEMESTER-III

CORE PAPER IV – DRAFTSMANSHIP – I

NUMBER OF CREDIT HOURS : 4

SUBJECT DESCRIPTION:
   This course presents the duties of draftsman, drafting tools, drafting medium and different types of drawings.

OBJECTIVES:
   Enable the students to understand the importance of draftsmanship-develop skill in using different drafting tools.
   Learnt to use various lines, to develop a drawing, understand the importance of free hand sketching.

UNIT I
   Introduction to draftsmanship. Drawing office organization, layout of drawing studio. Need for training, Duties. Determining needs and wishes of the client. Relationship between two dimensional and three dimensional diagrams.
UNIT II
Drafting tools and Techniques – Drawing table and Boards, Introduction, How to handle-
Handling paper and pencil, Types of scales, Tools for curves and irregular forms – Drawing aids.
Drafting mediums - Tracing paper, tracing cloth, water color paper, sketch paper, vellum, polyester film.

UNIT III
Lines – types of lines, thickness of lines, hatching of section.
Lettering – requirements of good lettering, size of letters and numerals space between letters, recommended height of letters, lettering technique.

UNIT IV
Dimensioning – general principles, precaution in dimensioning, method of placing dimensions, unit of dimensioning, method of executing dimension, arrow heads.

UNIT V
Geometrical constructions
Technical sketching – introduction – importance of freehand sketching, principles of free hand sketching

REFERENCES:
   distribution, Delhi.
   Rai publishing company (P) Ltd., New Delhi.
   Publishers, New Delhi.

JOURNALS
Architectural Digest
Inside Outside
Society interiors
House Layouts

CORE PAPER V - INTERIOR AND EXTERIOR TREATMENTS

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course presents the fundamentals for interior and exterior treatments to make the structure strong.

OBJECTIVES:
To understand the special care needed for floors, walls, ceilings, joineries.
To gain knowledge on different materials available in the market to increase the strength of a building.
UNIT I
Fundamentals for interior and exterior treatments
Termite proofing, waterproofing, acoustics, thermal comfort, Fire protection.
Walls - plastering, Putty, curing – before plastering, painting and applying other finishes,
methods of curing, Acoustics.
Roof - Plastering and curing.
Factors influencing choice of treatments – climate, cost, age, type/style of house, location.

UNIT II
Treatment of Walls

Interior Wall - Wood, glass, paints, tiles, terracotta, marble wash, metals, stone finishes, marble,
tiles, granite, white wash, color wash, selection, laying, cost estimation, care and maintenance.
Exterior Walls - Stones, rubble, tiles, fresco, plaster of Paris, murals, glass and metals,
paints, plastering. Selection, laying, cost estimation, care and maintenance.

UNIT III
Treatment of floors.
Interior floors - Mud, cement, red oxide, terrazzo, wood, metals, resilient flooring, Hard
and soft, mosaic, tiles, marble, granite and floor coverings - rugs and carpets, selection, laying,
cost estimation, care and maintenance.
Exterior floors - Concrete slabs, tiles, mosaic, terrazzo and terracotta.
Selection, specialty and characteristics of exterior floor finishes, laying, care and maintenance.

UNIT IV
Roofs/Ceiling.
Types, treatment - plastering, embossing, fresco, plaster of Paris, plastic, kerala
tiles, PVC, wooden paneling, glass, false ceilings.
Selection, laying, cost estimation, care and maintenance.

UNIT V
Joineries
Windows, Doors - types, materials used, types of joints, care and maintenance-
polishing, waxing, varnishing.
Ventilators - importance and types.
Introduction to green building concepts.

REFERENCES:
1. Ostrow. J. (2001), Painting rooms, Rockport publishers, USA.
RELATED EXPERIENCES
1. Market survey
2. Field visits-houses, commercial centers, hotels.
3. Submission of reports on field visits.

ALLIED SUBJECT III – FLORICULTURE

NUMBER OF CREDIT HOURS : 4

SUBJECT DESCRIPTION:
This course presents the importance of plants in landscaping, classification, propagation and protection of plants used in landscape designs.

OBJECTIVES:
To understand the importance of plants in landscape gardening.
To gain knowledge on propagation methods.
To prepare pot mixture, potting, repotting.

UNIT I
Floriculture – Meaning, concept and importance, ornamental plants – classifications - annuals and perennials, annuals for summer, winter and rainy seasons.

UNIT II
Shrubs and Trees – flowering and foliage shrubs, Trees-Avenue and shade trees, climbers and creepers, cacti and succulents, ferns, palms, hardy bulbs and tender bulbs, roses.

UNIT III
Propagation methods – sexual and asexual methods of propagation, division, cutting, layering, grafting, budding and tissue culture.

UNIT IV
Cultivation methods for ornamental plants in general – Procurement of plant material, preparation of soil, plant propagation, planting, watering and manuring.

UNIT V
Ornamental plant protection methods- plant after care, plant protection – cultural, chemical and mechanical, pest and diseases.

REFERENCES:
RELATED EXPERIENCES
1. Visit to Nurseries to identify different flowering and ornamental plants.
2. Demonstration on plant propagation methods.
3. Preparation of pot mixture, potting and repotting, growing plants in boxes and pots.

JOURNALS
Design Interiors.
Inside Outside,

DIPLOMA IN COMPUTER AIDED DESIGN AND DRAFTING
PAPER I - TWO DIMENSIONAL DRAFTING – I

NUMBER OF CREDIT HOURS : 3

SUBJECT DESCRIPTION:
This course presents the theory of two dimensional drafting using certain commands.

OBJECTIVES:
On successful completion of the course the students should have learnt to draw simple floor plan, which will be further developed to make a 3 – D model.

UNIT I
Introduction to Auto CAD – Auto CAD system requirements, Auto CAD GUI – Title bar, Menu bar, Standard tool bar, Object properties tool bar, Draw tool bar, Modify tool bar, UCS, Layout tab, command Entry, status bar, Task bar, General Commands-New, open, save, save as, close, Exit.

UNIT II
Point mixing methods – line using absolute Co-ordinate system, relative rectangular Co-ordinate system and relative polar Co-ordinate system, circle, arc, ellipse, rectangle, Polygon.

UNIT III
Modification tools- Erase, copy, move, scale, rotate, trim, Extend, Array, offset, mirror, break, stretch.

UNIT IV
Drafting settings, function keys, Text, text style, text edit, Multitext, color, line type, line weight.

UNIT V
Advanced tools – zoom, pan, view, solid, Donut, fillet, chamfer, layering concept.
REFERENCES:
1. Teach yourself Auto CAD, GIBBS, BPE publications, New Delhi.
2. Inside AutoCAD.

SEMESTER - IV
CORE PAPER VI  DRAFTSMANSHIP – II

NUMBER OF CREDIT HOURS : 5
SUBJECT DESCRIPTION:
This course presents the theory of orthographic, isometric and perspective projection.

GOALS :
To enable the students to understand the theory of various projections.

OBJECTIVES :
On successful completion of the course the students should have developed knowledge on theory of projection.
   Learnt the different views of an object.
   Developed skill to make various projections.

UNIT I
Architectural symbols, structural symbols, door symbols, window symbols.

UNIT II
Plumbing practice – plumbing symbols, plumbing operations, House wiring – electrical symbols planning of electrical installation of a building.

UNIT III
Orthographic projection – theory of orthographic projection, multi view orthographic projection, method of drawing section.

UNIT IV
Isometric projection - need for study, pictorial drawings, isometric projection definition, principles, characteristics, isometric view and isometric projection.

UNIT V
Perspective view - theory of perspective projection, technical term in relation with perspective, classification of perspective, methods – one point perspective and two point perspective.
REFERENCES:

JOURNALS
- Architectural Digest
- Inside Outside
- Society interiors
- House Layouts

CORE PRACTICAL II – DRAFTSMANSHIP

NUMBER OF CREDIT HOURS : 2

SUBJECT DESCRIPTION:
This course deals with the effective use of drafting tools to draw pictorial and perspective drawing.

OBJECTIVES:
To enable the students to make use of drafting tools.
To draw pictorial and perspective drawing.

CONTENTS
1. Architectural lettering.
4. Kitchen drawings – Types and three dimensional view (isometric view).
5. Rendering and presentation - Blue prints and ammonia prints.
ALLIED SUBJECT IV - LANDSCAPING

NUMBER OF CREDIT HOURS : 4

SUBJECT DESCRIPTION:
This course presents the meaning and importance of landscape gardening.

OBJECTIVES:
To enable the students to learn the principles to be followed in landscape gardening.
Have practical knowledge in making home gardens and indoor plants.
To impart knowledge on types of lawns, maintenance, method of preparation.
Acquire skill in making flower arrangements.

UNIT I
Landscaping – Meaning and importance, Types of gardens, garden components, garden design– formal and informal, principles of landscape gardening.

UNIT II
Lawn – importance, preparation, methods of cultivation, use, maintenance, Types of lawn.

UNIT III
Indoor plants – potting and repotting techniques, pot culture – potted plants, principles of growing, display and placement, upkeep and maintenance.

UNIT IV
Use of flowers and containers for Interior Decoration – Importance, basic shapes, styles in flower arranging – traditional, oriental, modern, free expression, dried and pressed flowers, fundamentals of Ikebana and styles of Ikebana.

UNIT V
Modern trends in gardening – Terrace garden, Rock garden, water garden, Bonsai culture, terrarium, developing ornamental plants in Home garden for flats – roof garden, hanging garden, Kitchen garden.

REFERENCES

RELATED EXPERIENCES
1. Visit to Landscape gardens.
2. Maintaining a model landscape area and making estimates.
JOURNALS
   Inside Outside, the Indian Design Magazine.
   Design Interiors

ALLIED PRACTICAL II – FLORICULTURE AND LANDSCAPING

NUMBER OF CREDIT HOURS : 2
SUBJECT DESCRIPTION:
   This course presents the identification of plants, propagation methods, making different styles of flower arrangements and drawing landscape gardens.

OBJECTIVES:
   To enable the students to gain knowledge on raising flower gardens.
   To understand the methods of cultivation aspects of flowers.
   To acquire skill in identifying the different ornamental flowers, shrubs, trees.

CONTENTS
   1. Identification of important flowering plants, shrubs and other ornamental plants.
   2. Preparation of cutting, layering, budding and grafting.
   3. Making different styles of flower arrangement.
   4. Drawing different landscape plans
   5. Submission of record

DIPLOMA PAPER II – TWO DIMENSIONAL DRAFTING – II

NUMBER OF CREDIT HOURS : 3
SUBJECT DESCRIPTION:
   This course presents the theory of two dimensional drafting using certain command and lay out management.

OBJECTIVES:
   On successful completion, the students learnt to draw floor plan with settings, layers, Dimensions to a given scale.

UNIT I
   Inquiry tools- ID, DIST, AREA, LIST, Hatching, poly line, poly line edit, Spline, Spline edit, multi line, multi line edit.

UNIT II
   Dimensions – linear, Align, Angular, radius, diameter, baseline, continue, leader.

UNIT III
   Dimension edit, dimension styles – lines and arrows tab, text tab, fit tab, primary units, alternate units, Tolerances.
UNIT IV
Productivity tools – Block-Nesting blocks, defining blocks, inserting blocks, Insert W block.

UNIT V
Print – Printer Manager style, style manager, plot, layout management – model space and paper space overview, working in model space.

REFERENCES:
1. Teach yourself AutoCAD, GIBBS, BPE publications, New Delhi.
2. Inside AutoCAD.

SEMESTER - V
CORE PAPER VII - APPLIED ARTS

NUMBER OF CREDIT HOURS: 5

SUBJECT DESCRIPTION:
This course presents the importance of art objects, creating art pieces using different materials, tools used in making drawing and painting.

OBJECTIVES:
To enable the students to
- Understand the techniques of art
- To apply the principles in creating art objects for home decoration.

UNIT I
Meaning and significance of art in the home- Factors affecting art forms-geography, community, materials, individuality and appearance, Developing skills for appreciation of art, Evaluation of art objects-Basic guidelines in evaluating art objects.

UNIT II
Shaping and Enrichment of different materials. Wood-Methods of shaping and decorating- Printing, Varnish, shellac, lacquer. Woodwork- cutting, turning, carving.
Metals and Alloys — Enrichment of metals- aluminium, bronze, brass, silver, copper and gold.
Ceramics- Definition, ornamentation on ceramics — earthenware, stoneware, china, porcelain and terracotta.
Glass- enrichment of glass-etching, engraving, cutting, enameling, painting, use of glass in home.
Mosaic-creating art pieces with mosaics.
UNIT III
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.

UNIT IV
Photography- Principles involved while taking photographs, developing and making prints, Use of photographs in interior decoration

UNIT V
Crafts, Macrame, Decoupage, Fabric painting, Glass painting, oil painting and collage.

RELATED EXPERIENCES
1. Drawing different designs with different tools — Pencil, Pen, crayon, charcoal, ink, and chalk.
2. Painting using different media — water, oil, fabric, stenciling.
3. Taking photographs and developing prints.
4. Visit to pottery units, metal industry, tie and dye units, and Batik centers.
5. Making ten varieties of art objects.
6. Home management residence stay within the campus
7. Internship in the housekeeping department in any one of the reputed hotels and prepare a project report.

REFERENCES:

JOURNALS
Women’s era.
Design Interiors.

CORE PAPER - VIII BASICS IN ARCHITECTURE

NUMBER OF CREDIT HOURS : 6

SUBJECT DESCRIPTION:
This course presents the history of architecture, greek, roman, gothic, Indian architecture and modern architecture.
OBJECTIVES:
Enable the students to
Learn the form of construction in architecture.
Gain knowledge on western architecture and Indian architecture.
Learn the features of modern architectures and the influence of vaasthu sastra in building construction.

UNIT I
Introduction to architecture- Definition and meaning, importance, principles of architecture. Development of Historic architecture.

UNIT II
Elementary forms of construction - arch, post, lintel, cantilever roofing techniques - truss, vaults and domes.
Egyptian and Mesapotamian architecture - Formation and development, characteristic features, typical examples.

UNIT III
Architectural masterpieces of other countries
Greek - Acropolis and Parthenon; their contribution to the development of post and lintel system-doric, ionic and Corinthian orders.
Roman- Forum, Pantheon and colosseum ; their contribution to the development of arches and domes.
Gothic- Chartres cathedral ; their contribution to the development of vaults.

UNIT IV
Indian Architecture-Buddhist-characteristic features-Stambha, Stupa-Sanchi stupa, Viharas and chaityas.
North - Sun temple, Lingaraja temple, Ajantha and Ellora Caves, Tajmahal, Lotus Temple-its architectural features.
South – Brihadeshwar temple, Meenakshi Amman Temple, Rock cut Temples -- Mahabalipuram – its architectural features.
Islamic architecture – characteristic features.

UNIT V
Modern architecture- modern materials and new techniques, Great Architects of modern age- Le Corbusier, Mies Vander Rohe, Frank Lloyd Wright-and their outstanding buildings.
Influence of vasthu sastra in modern construction, Organic architecture.

REFERENCES:

RELATED EXPERIENCE:
1. Drawing pictures of post and lintel system, arches and vaults.
2. Illustrate the three orders- Doric, Ionic and Corinthian
3. Compile an album on architecture belonging to various periods and countries.
4. Visit to places of architectural significance - Churches, temples, mosques, palaces, commercial centers and houses.

JOURNALS:
Building construction
Architectural digest- The International Magazine on Interior and Architecture
Architectural design

CORE PAPER IX  - HOUSEKEEPING AND MANAGEMENT - I

NUMBER OF CREDIT HOURS: 5

SUBJECT DESCRIPTION:
This course deals with objectives, importance, Housekeeping in different institution and functions, concept of resource management.

OBJECTIVES:
To enable the students
To know the organizational structure of a Housekeeping department.
To understand the management of resources applicable to residence course.
To improve skills in organization of work and prepare for housekeeping jobs.
To understand the importance and wise use of resources for achieving goals.

UNIT I
Introduction to Housekeeping Department- Objectives, Organization, Structure of Housekeeping department (small, medium, large), duties of Housekeeping personnel, Housekeeping as a Profession.

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

UNIT III
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 IV
Concept of Management-systems approach-process-planning, implementation, feedback, Significance of decision making, goal setting, standard setting.

UNIT V
Resource Management-Time management, energy management and money management.

REFERENCES:
3. Branson.D and Lannex M. (1972), Hotel, Hostel & Hospital House keeping Arnold publishers, USA.

CORE PAPER X - COMPUTER FUNDAMENTALS

NUMBER OF CREDIT HOURS : 6

SUBJECT DESCRIPTION:
This course intends to develop knowledge on fundamentals of computer.

OBJECTIVES :
Enable the students to
Understand the basics of computer.
Learnt about window basics – MS Excel, MS Power Point.

UNIT I
Computer Appreciation – Introduction, Characteristics, history, computer architecture, computer peripherals, output devices, system software and hardware languages, operating system – DOS, file, directories – creating, changing and renaming files, other dos commands.

UNIT II
UNIT III


MS Access basics - creating a table, entering and adding records, applications.

UNIT IV

MS Power point basics – Editing text – adding subordinate points – deleting slides, working in outline view – Using a design template – merging presentations in slides sorter view, applying template – adding graphs – running an electronic slide how adding special effects.

UNIT V


REFERENCES :


RELATED EXPERIENCES :

1. Ms Word – Type a paragraph and perform – bold, underline, font change, color BG, GF, spell check, line spacing, center heading.
2. Designing an invitation card, a logo of your design, using picture from standard libraries & making corners.
3. Perform mail merge.
4. Draw graphs and learn to prepare and modify worksheets.
5. Create database for maintaining address of your classmates & sort it.
6. Design presentation slides of your choice and if possible add voice.

DIPLOMA PAPER III – THREE DIMENSIONAL MODELING

NUMBER OF CREDIT HOURS : 3

SUBJECT DESCRIPTION:

This course presents the theory of three dimensional modeling using standard primitive tools, Boolean operations.

OBJECTIVES:

On successful completion the students, learnt to make a simple working drawing of plan, elevations, cross sectional view of building.
UNIT I
Introduction to 3D modeling – point fixing method – Absolute, Coordinate systems, relative cylindrical and relative spherical Co-ordinate systems. Types of model – wire frame model, surface model and solid models.

UNIT II
Standard primitive tools – Box, cone, wedge, torus, cylinder, sphere.

UNIT III
Boolean operations – Union, subtract, Intersect, Interference.

UNIT IV

UNIT V
Materials, rendering, Data exchange – Import and export of models.

REFERENCES:
1. Teach yourself AutoCAD, GIBBS, BPE publications, New Delhi.
2. Inside AutoCAD.

SEMESTER – VI
CORE PAPER XI - HOUSEKEEPING AND MANAGEMENT - II

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course deals with interior designing in hotels, explaining planning trends of guest rooms, styles of table setting in food service.

OBJECTIVES:
To enable the students
To understand the importance of interior design in creating beautiful interior in hotels.
To learn different styles of table setting.
To understand the layout and functions of front office in hospitality management.

UNIT I
Interior designing in hotels, motels and other types of restaurant-coffee shop, continental restaurant, specialty restaurant, pubs, night clubs, snacks and milk bar.
UNIT II
Planning trends of guest rooms-bedroom, bathroom, suite, lounge, cloak room. Selection and arrangement of furniture, carpet, lighting, flower arrangement and potted plants suitable for the rooms and areas.

UNIT-III
Table setting-Formal and informal, Indian and Western styles, setting for different occasions. Operating equipment- Classification of crockery, cutlery, glassware, hollowware and flatware-upkeep and maintenance of equipment and table linen.

UNIT IV
General maintenance - Cleanliness of all rooms-furniture, furnishings and accessories. Bed and bedding size, care and cleaning of beds, bed linen, blankets, bedspreads and mattress, cover and pillow mattresses.

UNIT V
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.

REFERENCES

CORE PAPER XII - COMPUTER AIDED INTERIOR DESIGN

NUMBER OF CREDIT HOURS : 6
SUBJECT DESCRIPTION:
This course intends to develop knowledge on application of computers in interior design.

OBJECTIVES :
Enable to students to understand the important features of 2D drafting.
Learnt about the use of 3ds max in interior design.
UNIT I
Real time application of CAD in interiors and exteriors – use of CAD in designing of buildings.

UNIT II
Important features of 2D drafting – line, circle, arc, ellipse, copy, move, scale, rotate, trim, extend, stretch.

UNIT III
Data conversion – Auto CAD to 3ds max, Import and Export of files in CAD.

UNIT IV
Introduction to 3ds max – standard primitives, Boolean operations, lattice, twist and bevel modifier.

UNIT V
Extrude, revolve, camera, material, light, rendering.

REFERENCES:
1. Teach yourself AutoCAD, GIBBS, BPE publications, New Delhi.
2. Inside AutoCAD.

RELATED EXPERIENCE
1. Use drawing tool bar draw-line, arc, p line, circle, polygon, solids, etc.
2. Draw simple diagrams using metric and other units & use edit & zoom commands.
3. Draw a floor plan with settings, layers, and dimensions and to scale.
4. Use 3D commands and make interior and exterior views of a building.

CORE PRACTICAL - III  APPLIED ARTS

NUMBER OF CREDIT HOURS : 3

SUBJECT DESCRIPTION:
This course aims at making the students to appreciate art, explaining the tools and techniques used in creating art objects.

OBJECTIVES:
To enable the students to
Develop skills in various art processes.
Appreciate the aesthetic elements used in art process.
Acquire skill in making varieties of art objects.
CONTENTS
1. Drawing different designs with different tools - pencil, pen, crayon, charcoal, ink, and chalk.
2. Painting using different media - water, oil, fabric, stencils.
3. Taking photographs and developing prints.
4. Making ten varieties of art objects & display.
5. Home management residence stay within the campus.
6. Internship in the housekeeping department in any one of the reputed hotels and prepare a project report.
7. Record.

CORE PRACTICAL IV - HOUSE KEEPING AND MANAGEMENT

NUMBER OF CREDIT HOURS: 3

SUBJECT DESCRIPTION:
This course presents the layout of housekeeping departments, emphasizing cleanliness in hotels, explaining flower arrangement and vegetable carving, imparting first aid techniques.

OBJECTIVES:
To enable the students
To understand the layout and function of housekeeping department.
To acquire skill in applying design principles in decorating the hotels.
To understand the cleaning procedures and maintenance of equipment in House Keeping department.

CONTENTS
1. Layout of the housekeeping department.
2. Application of principles of design and color in room setting- reception, lobby, bedroom.
3. Cleaning procedure for the following:
   a. Wall
   b. Ceiling
   c. Furniture (wood)
   d. Floor
   e. Carpet
   f. Upholstery
   g. Telephone/TV
   h. Bathroom
4. Stain removal
5. Flower arrangement/vegetable carving
6. Polishing of metal, leather and wood.
7. Table setting for Indian and Western style.
10. Maintenance of equipment in house keeping department.

FIELD VISIT
Visiting hotels, resort, motels and restaurant to study the cleaning procedure, bed making and other services, house keeping department, linen and laundry.

DIPLOMA PAPER IV - COMPUTER AIDED DESIGN
PRACTICAL

NUMBER OF CREDIT HOURS : 3
SUBJECT DESCRIPTION
This paper presents the drawing of two dimensional diagrams – residential building using computer.

OBJECTIVES:
Enable the students to draw floor plan, elevation, cross – sectional view using Auto CAD commands and create 3D modeling from 2D drawings.

CONTENTS
1. Creating line using point fixing methods.
2. Drawing circle, arc, ellipse, rectangle, polygon using different methods.
3. Creating a plan and use of modification tools such as erase, copy, move, scale, rotate, trim, extend, array, offset, mirror, break and stretch.
4. Creating text using text style, text edit, line type and weight.
5. Use of zoom, pan, view command in a drawing.
6. Drawing a floor plan with settings, layers and dimensions, and to scale.
7. Drawing elevation, cross sectional view for the floor plan.
8. Creating polyline and editing of polyline. Creating spline and editing of spline.
9. Marking dimensions in a drawing by using Dimension edit, dimension styles.
10. Creating 3D model using point fixing methods.
11. Drawing of Box, cone wedge, torus, cylinder and sphere.
12. Use of Boolean operations in 3D drawing.
13. Converting of 2D drafting into 3D modeling using extrude, revolve.
14. Creating furniture, applying materials. fixing of lights, rendering in the existing plan.
ELECTIVE I – A : INTRODUCTION TO TEXTILES AND CLOTHING

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course deals with textile fibers, weave and finishes, printing techniques, drafting and stitching.

OBJECTIVES:
To enable the students to
Know about the various textile fiber, weave and finishes.
Learn the basic sewing operation
Gain knowledge on different dyeing, and printing methods.

UNIT I
Introduction to textiles-fiber-definition, classification, uses, Yarn-definition, classification, spinning-definition and importance, Fabric-definition, classification, Basic weaves-plain, rib, basket, twill, satin and sateen, Weaving-definition.

UNIT II
Knitting- Definition, types, difference between weaving and knitting, Textile processing-singeing, desizing, scouring, bleaching, mercerizing, stiffening and softening.
Dyeing-Definition of dyes, classification, suitability.

UNIT III
Printing - definition, various styles- block, tie and dye, batik, stencil, screen-printing.
Introduction to clothing, basic sewing operations- major parts and their functions. Tools needed for sewing.

UNIT IV
Seams, plackets, sleeves, collars, fasteners. Definition, types, preparation of samples.

UNIT V
Body measurements-fitting principles, drafting of a line frock, drafting-definition, principles and pattern drafting. Drafting of adult's bodice pattern and sleeve.

REFERENCES

RELATED EXPERIENCES
1. Visit to textile dyeing, printing and processing unit.
2. Learning basic sewing operations.
3. Stitching samples of sleeves, plackets, seams, etc.

JOURNALS
- Colourage
- Clothesline
- The Indian Textile Journal.

ELECTIVE I-B: KITCHEN DESIGN

COURSE NUMBER
NUMBER OF CREDIT HOURS: 5

SUBJECT DESCRIPTION:
This course provides practical experience in actual designing and fabrication of various models of kitchen.

GOALS:
To enable the students to understand the factors influencing kitchen design, imparting the need for essential services and storage in a kitchen.

OBJECTIVES:
On successful completion of the course the student should have gained knowledge of different materials used for various surfaces in kitchen. Developed skill in planning different layouts.

UNIT I
Kitchen planning – Functions performed in a kitchen, types of kitchen, principles of planning kitchen – orientation and location, ventilation, storage needs, work triangle, colour, 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 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
Essential services needed in a kitchen. Water supply – hot and cold, taping, water purifiers. - Electricity services – electric current, exhaust fans, electrical equipment and their locations. - Drainage services – Waste water drainage system, waste disposal.
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. Alexander, N.J (1972), Designing Interior Environment, Havanouich Inc.,

ELECTIVE I-C : PROFESSIONAL PRACTICE

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course contains the planning of interiors of residential and commercial building, estimating, specification and professional practices.

OBJECTIVES :
To enable the students to
plan residential interiors and commercial interiors
Gain knowledge in estimating and costing
understand the preparation of quotation and tenders.

UNIT I
Residential Interiors – Space planning for residential interiors – living room, dining room, kitchen, bedroom.

UNIT II
Commercial interiors – Space planning for office interiors – cabinets, conference rooms open office systems.

UNIT III
Estimating – Definition of estimates, types, unit and mode of measurement, quantity surveying – systems adopted, analysis of rates, schedule of items, schedule of rates, schedule of quantities.

UNIT IV
Specifications – definition, uses, importance, types, requirements, points to be included in the specifications.

UNIT V
Tenders and quotations – Tenders – meaning types, preparation of tenders, quotations, contracts.

REFERENCES
1. Deshpande, R.S. (1995); Modern ideal Homes for India, Deshpande Publication, Poona

ELECTIVE II-A : MERCHANDISING AND DISPLAY

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course deals with concept of commercial art, Merchandising, Advertising, emphasizing the role of display in sales promotion.

OBJECTIVES:
To help students
To learn about the need and use of commercial art.
To encourage the student to apply theoretical knowledge in arranging the interior and window of a store.
To know the current trends in commercial art.

UNIT I
Concept of commercial art and merchandising- Meaning, classification, development-recent trends- art, architecture and display.

UNIT II
Consumer and Merchandising - Meaning, significance and classification of consumer, Consumer rights and responsibilities, classification of consumer goods, elements involved in merchandising- grading, branding, labeling, packaging and standardization. Merchandising and
distribution- Importance, selection of channels, channels of distribution of goods, techniques of merchandising- selling methods.

UNIT III
Salesmanship-concept - definition, types and qualities of salesman-techniques of salesmanship.

UNIT IV
Advertising- Definition, importance, classification, features of good advertisement, preparation and techniques, advertisement media- selection, classification and types, poster-importance, characteristics- steps and techniques in poster making.

UNIT V
Merchandise Display-Interior display- principles and requirements- types of merchandise display- window display- meaning, principles and factors and rules. Window arrangement-art and psychology, principles - techniques in window display.

REFERENCES

RELATED EXPERIENCES:
1. Preparing advertisement on consumer goods.
2. Evaluating different media used for advertisement.
3. Preparing ideal posters on recent issues.
4. Collect and make an album of various advertisements.
5. Visit to merchandise shops and observe the techniques of selling, interior and window display.

ELECTIVE II-B : ERGONOMICS

COURSE NUMBER

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course deals with concept of ergonomics, work environment and their impact on health and work efficiency.
OBJECTIVES:

To enable the students to
  gain knowledge on importance of ergonomics in work effectiveness.
  Design work areas using ergonomic principles.

UNIT I

  Concept of ergonomics – Meaning, importance, factors involved – worker, work place,
  tools and equipment, environment, climate.

UNIT II

  Work environment – Location, space, indoor and outdoor climate, furniture, lighting and
  ventilation, flooring, noise, storage facilities, kitchen layouts.

UNIT III

  Anthropometry – Anthropometric dimension of workers at work and at rest, normal and
  maximum vertical and horizontal reaches, work heights when seated and standing, worker in
  relationship with workspace and activities.

UNIT IV

  Improving work efficiency- Concept of efficiency, principles and work and implication
  technique, effective use of body mechanics, posture involved in difference activities, Mundel’s
  classes of change.

UNIT V

  Design of work place – Activity analysis – Designing work areas based on ergonomics
  principles.

REFERENCES

   Wiley, New York,
   New York
   Measurements, Prentice Hall, New Delhi.
ELECTIVE II-C : ENVIRONMENT CONTROL IN INTERIORS

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:
This course contains heating, ventilation, air conditioning and noise control in the interior spaces.

OBJECTIVES:
To enable the students to understand the importance of environment control in the interiors. Acquire knowledge on the different types of heating and cooling systems.

UNIT I
Environment control – meaning of environment, importance of environment control, advantages, elements to be controlled in the interiors – Temperature, air quality, sound, sanitation, light.

UNIT II
Ventilation – Definition, importance, Types of ventilation – Natural and mechanical Guidelines for natural ventilation.

UNIT III
Heating – Need for room heating, types of heating system – central, radiant, forced air; solar system – Active solar system and passive solar system.

UNIT IV
Air conditioning – Meaning, Principles, need for conditioning, air conditioning applications, Humidity control, types of air conditioning - central air conditioning, and packaged.

UNIT V
Acoustics – Definition, requirements of good acoustics, properties of sound – sound waves wave length, frequency, velocity, resonance, sound levels, loudness, noise, sound reflection, echoes, reverberation; Sound absorption – sound absorbent materials, qualities of acoustic material, guidelines for good acoustical design.

REFERENCES
ELECTIVE III-A : ENTREPRENEURIAL DEVELOPMENT

NUMBER OF CREDIT HOURS: 5

SUBJECT DESCRIPTION:
This course intends to develop entrepreneurship skills in students by understanding the process and procedure of setting up small enterprises and managing them effectively.

OBJECTIVES:
To enable the students to
Develop entrepreneurial skills.
Analyze the environment related to small scale industry and business.
Understand the process and procedures of setting up small enterprises.
Develop Management skills for entrepreneurship development.

UNIT I
Entrepreneurship - Entrepreneur, Enterprise and Entrepreneurship - meaning, need, transition from income generation to self employment and Entrepreneurship, qualities of a good entrepreneur, problems of entrepreneurs.

UNIT II
Factors influencing entrepreneurial development - Economic, Legal, Socioeconomic, Psychological and Environmental factors.

UNIT III
Agencies supporting entrepreneurial Development Programme - SIDCO, DIC, TIIC, EDII, SIPCOT, KVIC. Institutional Finance to Entrepreneurs – IDBI, ICICI, RBI, LIC, GIC.

UNIT IV
Project identification and classification - Meaning of Projects, Project identification, Project Classification, internal and external constraints, Project objectives.

UNIT V
Project formulation – Concept, need, elements. Project selection, appraisal format, check list for feasibility report, planning commission guidelines.

RELATED EXPERIENCE:
1. Visit to SIDCO, DIC and TIIC.
2. Case study of an enterprise and two entrepreneurs.
3. Preparation of a project proposal for funding.

REFERENCES:

**ELECTIVE III-B : FASHION DESIGNING**

**NUMBER OF CREDIT HOURS : 5**

**SUBJECT DESCRIPTION:**
This course consists of the terms related to fashion industry and explaining the different dress designs for unusual figures.

**OBJECTIVES:**
To enable the students to
Familiarize with fashion designing
Acquaint with the steps involved in the dress designing
Gain knowledge in wardrobe planning

**UNIT I**
Terms related to the fashion industry – fashion, style, fad, classic and collection, chic custom made, mannequin, fashion, show, trend, forecasting, high fashion, haute, couture, fashion director, fashion editor, line, knock-off, avant garde, apparel, fashion merchandising, sample.

**UNIT II**
Design – definition and types – structural and decorative design, requirements of a good structural and decorative design. Elements of design – line, shape or form, colour, size and texture. Application of structural and decorative design in dress selection and application of trimmings and decorations. Fashion accessories – shoes, handbags, hats, ties – different types.

**UNIT III**
Principles of design – Balance – formal and informal, Rhythm – through repetition, radiation and gradation, Emphasis, Harmony, Proportion - Application of principles of design in a dress, Colour – colour harmonies and applications of colour in dress design.

**UNIT IV**
Designing dresses for unusual figures – becoming and unbecoming – for the following figure types – Stout figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face, prominent chin and jaw, prominent forehead.
UNIT V

Wardrobe planning for different age groups, factors influencing wardrobe selection, Fashion and season, designing dresses for different occasions – business meetings, parties, leisure hours, marriage functions, sports, uniforms for civil services, airhostess, hoteliers, schools – girls and boys.

REFERENCES


ELECTIVE III-C : INTRODUCTION TO GREEN BUILDING TECHNOLOGY

NUMBER OF CREDIT HOURS : 5

SUBJECT DESCRIPTION:

This course contains the concept of green building technology, imparting the benefits of it, explaining the materials, emphasizing the use of renewable energy resources and water conservation.

GOALS

To enable the students to.
Learn the concept of green building technology and gain knowledge in green building materials.

OBJECTIVES:

On successful completion of the course the students should have understood the importance of green building technology.
Acquired knowledge in recent green building materials and to trap rain water

UNIT I

Green building technology – Meaning, concept, impact of green building on human health and natural environment, need, importance and benefits of green buildings.
UNIT II

Materials and finishes used in green building – Bamboo, straw, wood, dimension stone, Recycled stone, non-toxic metals, Earth blocks-compressed, rammed, baked; vermiculites, flax linen, sisal, wood fibres, cork, coconut ,polyurethane block.

UNIT III

Green building practices and technologies. Roof, walls, floors – electrical, plumbing, windows, and doors, heating, ventilation and air conditioning (HVAC), insulation, Interior finishes, landscaping.

UNIT IV

Renewable energy resources – meaning and importance, solar energy – advantages, principles and functions of solar devices – solar room heater, solar lights, solar water heater, solar air conditioners.

UNIT V

Water conservation technologies Rain water harvesting-importance, requirements of rain water harvesting structure, types of rain water harvesting systems, advantages

REFERENCES