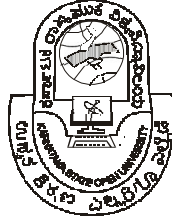


MNPE-09425068494



Karnataka State Open University

Mysore, Karnataka – 570006

In Association with BSAITM

**Syllabus
For
Master of Sciences
INTERIOR DESIGN (MSCID)**

MASTERS OF SCIENCES INTERIOR DESIGN

Year – 1

Code	Subjects	Credits
MID-011	Construction Techniques	4
MID-012	Landscape in Interiors	4
MID-013	History of Interiors & Furniture	4
MID-014	Estimating & Costing	4
MID-015	Design & Drafting	4
MID-016	Practical Lab	8
TOTAL		28

Year – 2

Code	Subjects	Credits
MID-021	History of Art & Architecture	4
MID-022	Elements & Services	4
MID-023	Indian Institute of Interior Design	4
MID-024	Cad	4
MID-025	Design & Drafting	4
MID-026	Practical Lab (MID-024)	4
MID-027	Practical Lab (MID –025)	4
TOTAL		28

Detailed Syllabus

Year – 1

MID 011 Construction Techniques

Section 1 Construction Practices

Unit- 1 Specifications

Unit – 2 Details and sequence of activities and construction co-ordination

Unit–3 Site Clearance

Unit – 4 Marking

Unit – 5 Earthwork

Unit- 6 masonry

Unit - 7 stone masonry

- Unit – 8 concrete hollow block masonry
- Unit – 9 flooring
- Unit - 10 damp proof courses
- Unit - 11 construction joints
- Unit - 12 movement and expansion joints – pre cast pavements – Building foundations – basements – temporary shed
- Unit – 13 centering and shuttering sheet piles – slip forms – scaffoldings – de-shuttering forms – Fabrication and erection of steel trusses – frames
- Unit - 14 braced domes – laying brick — weather and water proof – roof finishes – air conditioning – acoustic and fire protection.

Section 2 Sub Structure Construction

- Unit – 1 Techniques of Box jacking
- Unit - 2 Pipe Jacking
- Unit – 3 under water construction of diaphragm walls and basement
- Unit- 4 Tunneling techniques
- Unit – 5 Piling techniques- driving well and caisson
- Unit – 6 sinking cofferdam
- Unit – 7 cable anchoring and grouting-driving diaphragm walls, sheet piles
- Unit- 8 shoring for deep cutting- Large reservoir construction with membranes and Earth system
- Unit – 9 well points
- Unit – 10 Dewatering and stand by Plant equipment for underground open excavation.

Section 3 Super Structure Construction

- Unit – 1 Launching girders, bridge decks, off shore platforms
- Unit – 2 special forms for shells - techniques for heavy decks
- Unit - 3 in-situ pre-stressing in high rise structures, aerial transporting handling
- Unit – 4 erecting light weight components on tall structures
- Unit – 5 erection of transmission towers
- Unit – 6 Construction sequences in cooling towers, silos, chimney, sky scrapers, bow string bridges, cable stayed bridges
- Unit – 7 Support structure for heavy Equipment and conveyors
- Unit – 8 Erection of articulated structures, braced domes and space decks.

Section 4 Repair and Rehabilitation

- Unit – 1 Study on causes of building damage and deterioration
- Unit – 2 Assessment of materials and methods of repair and restoration.

Section 5 Construction Equipment

- Unit – 1 Selection of equipment for earth work
- Unit – 2 earth moving operations
- Unit – 3 types of earthwork equipment
- Unit – 4 tractors, motor graders, scrapers, front end loaders, earth movers
- Unit- 5 Equipment for foundation and pile driving.
- Unit – 6 Equipment for compaction, batching and mixing and concreting

Unit – 7 Equipment for material handling and erection of structures
Unit – 8 Equipment for dredging, trenching, tunneling, drilling, blasting
Unit - 9 dewatering and pumping equipment
Unit - 10 Transporters.

Reference Books:

1. Peurifoy, R.L., Ledbetter, W.B. and Schexnayder, C., "Construction Planning, Equipment and Methods", 5th Edition, McGraw Hill, Singapore, 1995
2. Arora S.P. and Bindra S.P., Building Construction, Planning Techniques and Method of Construction, Dhanpat Rai and Sons, 1997.

MID 012 Landscape in Interiors

Section 1 Techniques for design

Unit – 1 Techniques for designing outdoor living areas Issues connected with designing landscapes for special populations.

Section 2 Issues with designing

Unit -1 Issues connected with designing landscapes for unique settings Presentation of advanced landscape design techniques.

Section 3 Presentation of Historical & Regional influences

Unit – 1 Presentation of historical and regional influences that affect landscape design rendering techniques.

Section 4 Analysis Techniques

Unit – 1 Client inventory and site analysis techniques . Techniques for generating a base map techniques for developing preliminary designs

Section 5 Developing Preliminary Design

Unit – 1 Techniques for developing preliminary designs techniques for orally presenting landscape plans to clients Starting your own landscape design business

Reference Books:

1. Houston's forgotten heritage: landscape, houses, interiors by Dorothy Knox Howe Houghton, Junior League of Houston
2. Color Drawing: Design Drawing Skills and Techniques for Architects, Landscape Architects, and Interior Designers by Michael E. Doyle

MID 013 History of Interiors & Furniture

Section 1 Dark Age Styles: c. 450-1100 A.D.

- Unit – 1 Family Life and Houses in the Medieval Period
- Unit – 2 Design of cup borde
- Unit – 3 Anient Benches and stools
- Unit – 4 Beds
- Unit – 5 Use of tapestries and hangings to cover the walls
- Unit – 6 rush matting
- Unit – 7 carvings or stencils in ancient heraldic designs.

Section 2 Byzantine Houses and Furniture

- Unit – 1 General Characteristics of Byzantine Style
- Unit – 2 Two Types of Funichers
- Unit – 3 Simple Funicher and Palace Furniture
- Unit – 4 Chests
- Unit – 5 Stools
- Unit – 6 Tables & Beds
- Unit – 7 Wooden Tables
- Unit – 8 Marble Tables
- Unit – 9 Byzantine Influence in the West
- Unit – 10 The baldaquin, or canopy

Section 3 Carolingian Furniture: Revival of Roman Style

- Unit – 1 Carolingian art ,
- Unit – 2 History of Romanesque Furniture
- Unit – 3 heavy round arches
- Unit – 4 vaulting system
- Unit – 5 large interior spaces
- Unit – 6 What is Romanesque?
- Unit – 7 Characteristics of Romanesque Furniture

Section 4 Viking Furniture

- Unit – 1 wall-benches in homes
- Unit – 2 common home furnishings
- Unit – 3 stools and chests
- Unit – 4 The three-legged stool
- Unit – 5 Chairs
- Unit – 6 The Four Poster Beds
- Unit – 7 Romanesque Revival & Reproductions

Section 5 Gothic Furniture & Decor

- Unit – 1 Medieval Gothic Furniture

Unit – 2 Styles & Wood, use of oak
 Unit – 3 use of pointed arches flying buttresses
 Unit – 4 other dramatic innovations
 Unit – 5 The rich patrons interiors
 Unit – 6 decorative elements
 Unit – 7 pointed arch
 Unit – 8 Typical Gothic Furniture
 Unit – 9 Gothic Home Decor Revival
 Unit – 10 Its popularity in England and United States in the 19th century
 Unit – 11 ornate carving
 Unit – 12 soaring
 Unit – 13 pointed arches of Gothic origin
 Unit – 14 use of candles
 Unit – 15 stained glass
 Unit – 16 brass and pewter Uses in Gothic style
 Unit – 17 Use of heavy and feature rich colors such as wine, ruby, purple, black and gold, Murals and heraldic carvings

Reference Books:

1. History of Interior Design & Furniture, From Ancient Egypt to Nineteenth Century Europe by Julie L. Rabun.
2. The Atlas of Early Man by Hawkes, Jacquetta.

MID 014 Estimation & Costing

Section 1 General & Proposal and Development of Project

Unit – 1 General: Importance of the subject, purpose of quantity estimates
 Unit – 2 Mode and unit of measurement as per I.S.1200.
 Unit – 3 Methods and Stages of estimates
 Unit – 4 Item of a work and Description of an item of work.
 Unit – 5 Proposal and Development of Project
 Unit – 6 Nature of contract between owner and Architect / Engineer
 Unit – 7 Duties and Liabilities of Architect / Engineer, Architect's / Engineers normal professional services
 Unit – 8 Various important terminology required like Work charged establishment
 Unit – 9 muster roll
 Unit – 10 contingencies
 Unit – 11 cent age charges
 Unit – 12 measurement book
 Unit – 13 overheads etc.

Section 2 Quantity and cost estimates

Unit – 1 Methods of detailed estimates
 Unit – 2 forms used for detailed estimates

Unit – 3 Working out the quantities of various materials required for construction of various Civil Engineering Works

Unit – 4 Building

Unit – 5 Culverts

Unit – 6 Hydraulic Structures

Unit – 7 Water supply and Sanitary works

Unit – 8 road works

Unit – 9 retaining walls Unit – 10 water Tanks etc.

Unit – 10 Earthwork estimates in road (Including hill roads)

Unit – 11 canals

Unit – 12 massexcavation, mass haul curve.

Unit – 13 Detailed estimates of Steel in RCC works

Unit – 14 bar bending Schedule.

Section 3 Arranging Works, Specifications

Unit – 1 P.W.D. as the construction agency

Unit – 2 method of carrying out works

Unit – 3 arranging contract works

Unit – 4 pretender and contract planning

Unit – 5 tender notice

Unit – 6 acceptance of tender

Unit – 7 essentials of contract

Unit – 8 type of contracts

Unit – 9 conditions of contract

Unit – 10 contract documents

Unit – 11 various schedules in the tender document

Unit – 12 measurement and payment to contractor

Unit – 13 Indian contract law, and the Engineering contract. Land acquisition act, legal aspect of various contract provisions, arbitration.

Unit – 14 Specifications : Purpose and principles of specifications. Writing types of specifications, writing an developing detailed specifications of Important items.

Unit – 15 Cost Build up : Purpose and principles, Importance of Schedule of rates (DSR) in Cost Estimates : Factors affecting analysis of rates, information from National Building Organization.

Unit – 16 Task work, factors affecting task work. Market rates, escalation.

Section 4 Valuation

Unit – 1 Purpose of valuation

Unit- 2 Factors affecting value of property price and cost

Unit – 3 market value

Unit – 4 potential value

Unit – 5 sentimental value

Unit – 6 scrap value
Unit – 7 reversionary value etc.
Unit – 8 Real Estate
Unit- 9 Guide edged securities
Unit – 10 Net and Gross return, tenure of land, Valuation of land.
Unit – 11 Free hold and leasehold
Unit – 12 sinking fund
Unit – 13 depreciation,
Unit – 14 Capitalised value, methods of valuation, differed annuity.
Unit – 15 Time cost relationship, Valuation table, Rent fixation.

Section 5 Cost Accounting

Unit – 1 Various methods
Unit – 2 classification of cost
Unit – 3 direct and indirect charges
Unit – 4 distribution of overheads
Unit – 5 M.A.S. Account issue rates and store account.

Reference Books:

1. Estimation by Dutta.
2. Valuation by Roshan Namavati.

MID 015 Design & Drafting

Section 1 Introduction

Unit – 1 History of technical drawing
Unit – 2 Need for a graphic language
Unit – 3 Drawing is the universal language

Section 2 Drawing Instrumentations and Their Use

Unit – 1 Instrument identification and purchase
Unit – 2 Proper use of instruments
Unit – 3 Alphabet of lines.
Unit – 4 Lettering: Letter styles, Standard lettering.

Section 3 Sketching and Shape Description

Unit – 1 Straight lines
Unit – 2 Circles and arcs
Unit – 3 Proportions

Unit – 4 Sketching on cross-section paper
Unit – 5 Views of objects
Unit – 6 Six views of an object
Unit – 7 Three regular views
Unit – 8 Alignment of views
Unit – 9 Meaning of lines
Unit – 10 Precedence of lines.

Section 4 Multi-view Projection

Unit – 1 Definition and description
Unit – 2 Glass box
Unit – 3 Folding lines
Unit – 4 Projecting a third view
Unit – 5 3-view drawing (third-angle projection)
Unit – 6 Models
Unit – 7 Visualizing the views .

Section 5 Auxiliary Views

Unit – 1 Definition and description
Unit – 2 Auxiliary plane
Unit – 3 Drawing auxiliary views
Unit – 4 Classification of auxiliary views
Unit – 5 Revolving drawing
Unit – 6 Plotted curves
Unit – 7 Partial auxiliary views
Unit – 8 Half auxiliary views
Unit – 9 True length of a line
Unit – 10 Primary auxiliary views
Unit – 11 secondary auxiliary views.

Reference Books:

1. Architectural Drafting and Design by Alan Jefferis, David A. Madsen, and David A. Madsen
2. Hand Drafting for Interior Design by Diana Bennett Wirtz

Year- 2

MID 021 History of Art & Architecture

Section 1 History of Art

Unit – 1 The major developments in art and architecture from the Baroque era until the present day,
Unit – 2 comparing the tools used to make works of art
Unit – 3 the sociological environment in which they were made and the changing attitudes of art history

Section 2 History of Furniture

Unit – 1 Precious description & technical analysis for styles & properties of the pre

Unit – 2 renaissance & renaissance era in both France & England

Section 3 Architectural Styles and Furniture Styles

Unit – 1 Characteristics associated with architectural and furniture styles dating from English renaissance to the present

Unit – 2 visual examples of various architectural and furniture styles

Section 4 Cultural Influences

Unit – 1 Various cultural influences that helped shape architectural and furniture styles

Unit – 2 identify major artists

Unit – 3 designers and architects with examples of their work

Section 5 Modern Architecture

Unit – 1 Architectural, furniture and interior styles reflect religious values and philosophical presuppositions of artists and cultures.

Reference Books:

1. Modern Architecture (Oxford History of Art) by Alan Colquhoun
2. A History of Architecture: Settings and Rituals by Spiro Kostof, Gregory Castillo, and Richard Tobias

MID 022 Elements of Services

Section 1 Introduction

Unit – 1 The role of services in the industry

Unit – 2 cost associated with services

Unit – 3 the cost of development and construction

Unit – 4 cost of operation

Unit – 5 cost of renovation and modernization

Unit – 6 impact of service design on service management

Unit – 7 components

Unit – 8 layouts and materials

Unit – 9 methods and types of construction

Unit – 10 paints and varnishes.

Section 2 Managing Maintenance

Unit – 1 Types of maintenance

Unit – 2 maintenance management systems

Unit – 3 services systems: water usage in the lodging industry, water systems, water quality, water heating, swimming pool water systems, water conservation.

Section 3 Electrical Systems

Unit – 1 Fuses and circuit breakers

Unit – 2 distribution panels and wiring

Unit – 3 electric motors

Unit – 4 controls and drive elements

Unit – 5 electronic equipment

Unit – 6 reading electrical utility meters

Unit – 7 checking the bill for electrical energy

Unit – 8 ac and dc system of supply

Unit – 9 power in ac single and three phase.

Section 4 Heating, Ventilation And Air Conditioning Systems

Unit – 1 Room HVAC system

Unit – 2 types

Unit – 3 centralized systems

Unit – 4 decentralized systems

Unit – 5 guestroom HVAC maintenance,

Unit – 6 refrigeration cycle

Unit – 7 cooling systems operations and maintenance

Unit – 8 factors influencing building comfort.

section 5 Lighting & Security Services

Unit – 1 Basic definitions

Unit – 2 light sources

Unit – 3 natural lights

Unit – 4 artificial light

Unit – 5 lighting system design

Unit – 6 design factors

Unit – 7 lighting system maintenance

Unit – 8 cleaning fixtures and lamps

Unit – 9 replacing lamps

Unit – 10 affects of maintenance on light outputs.

Reference Books:

1. A complete guide of services by Cathryn Berger
2. Learning network services by Rob Kooper
3. Interior design by Maureen

MID 024 Cad

Section 1 Computers in Industrial Manufacturing

Unit – 1 Product cycle

Unit – 2 CAD / CAM Hardware

Unit – 3 Basic structure

Unit – 4 CPU

Unit – 5 Memory types

Unit – 6 input devices

Unit – 7 display devices

Unit – 8 hard copy devices

Unit – 9 storage devices

Unit – 10 Computer Graphics: Raster scan graphics coordinate system, database structure for graphics modeling, transformation of geometry, 3D transformations, mathematics of projections, clipping, hidden surface removal.

Section 2 Geometric modeling and modeling systems

Unit – 1 Requirements

Unit – 2 geometric models

Unit – 3 geometric construction models

Unit – 4 curve representation methods

Unit – 5 surface representation methods

Unit – 6 modeling facilities desired

Unit – 7 Drafting and Modeling systems : Basic geometric commands, layers, display control commands, editing, dimensioning, solid modeling

Section 3 Numerical control

Unit – 1 NC, NC modes, NC elements, NC machine tools, structure of CNC machine tools, features of Machining center, turning center

Unit – 2 CNC Part Programming : fundamentals, manual part programming methods, Computer Aided Part Programming.

Section 4 Group Tech and Computer Aided Quality Control

Unit – 1 Part family

Unit- 2 coding and classification,

Unit – 3 production flow analysis,

Unit-4 advantages and limitations, Computer Aided Processes Planning, Retrieval type and Generative type.

Unit- 5 Terminology in quality control, the computer in QC, contact inspection methods, no contact inspection methods-optical, no contact inspection methods-no optical, computer aided testing, integration of CAQC with CAD/CAM.

Section 5 Computer integrated manufacturing systems

Unit – 1 Types of Manufacturing systems

Unit – 2 Machine tools and related equipment

Unit – 3 material handling systems

Unit – 4 computer control systems

Unit – 5 human labor in the manufacturing systems,

Unit – 6 CIMS benefits.

Reference Books:

1. CADD Primer by Vijay Duggal
2. Computer Aided Design by Dr. M. N. Shesha Prakash Dr. G. S. Suresh

MID 025 Design & Drafting

Section 1 Introduction/ drawing equipments/ sheets

Unit – 1 Introduction

Unit – 2 T-square and set square

Unit – 3 Scales-types and use

Unit – 4 French curves

Unit – 5 Drawing sheet

Unit – 6 Sheet layout, Sheet sizes

Unit – 7 Lines - Types of lines and line thickness, Different types of dimensioning line

Section 2 Elements of Design

Unit – 1 Line

Unit – 2 Colour

Unit – 3 Shape

Unit – 4 Texture

Unit – 5 Principle of design-Harmony, Contrast, Proportion, Rhythm, Balance
Progression.

Section 3 Drafting

Unit – 1 Drafting Variety according to the product or project

Unit – 2 detail drawings (also called working drawings)

Unit – 3 assembly drawings

Unit – 4 section drawings

Unit – 5 plans (top views), and elevations (front views)

Unit – 6 Drawing for manufacturing a machine, the shape and size of each individual part, except standard fasteners.

Section 4 drafting machine (instrument)

Unit – 1 Use in drawing in drafting (graphics): Equipment, invented to facilitate the performance of the manual tasks, T square, triangle, protractor, and compass;

Unit – 2 the parallel straightedge, the drafting machine functions of the T square.

Section 5 isometric drawing

Unit – 1 Method of graphic representation of three-dimensional objects

Unit – 2 uses to engineers, technical illustrators, and occasionally, architects.

Unit – 3 The technique of combining the illusion of depth

Unit – 4 orthographic projections uses in making equal angles with the three principal planes of the object.,

Unit – 5 drawing of a faces appearance as equilateral parallelograms, the horizontal edges

Reference Books:

1. Drafting for the Theatre by Dennis Dorn & Mark Shanda

2. Theatrical Design and Production by J. Michael Gillette
