

## Syllabus for M.Sc. in Interior Design

**Course Title: M.Sc. Interior Design**

**Duration: 2 years**

**Total Marks: 2000**

**Subject Code: MSCID**

### M.Sc. - I

Sl. No.	Paper Code	Paper Name	Marks		
			External	Internal	Total Marks
1	MSCID-101	Residential Interior Space Design	75	25	100
2	MSCID-102	Building Materials - I	75	25	100
3	MSCID-103	Drawing and Graphics	75	25	100
4	MSCID-104	Commercial Interior Space Design	75	25	100
5	MSCID-105	<b>Project – I</b> Residential Interior Space Design	75	25	100
6	MSCID-106	<b>Project – II</b> Commercial Interior Space Design	75	25	100
7	MSCID-107	Building Services - I	75	25	100
8	MSCID-108	Professional Practice-I	75	25	100
9	MSCID-109	<b>Practical – I</b> Drawing and Graphics	75	25	100
10	MSCID-110	<b>Practical – II</b> Building Construction	75	25	100
<b>Total</b>					<b>1000</b>

### M.Sc. – II

Sl. No.	Paper Code	Paper Name	Marks		
			External	Internal	Total Marks
1	MSCID-201	Design with Thesis	75	25	100
2	MSCID-202	Theory of Architecture	75	25	100
3	MSCID-203	Professional Practice- II	75	25	100
4	MSCID-204	Working Drawing	75	25	100
5	MSCID-205	CAD	75	25	100
6	MSCID-206	Building Services - II	75	25	100
7	MSCID-207	Building Materials - II	75	25	100
8	MSCID-208	Environmental Studies	75	25	100
9	MSCID-209	<b>Practical - I</b> , Working Drawing	75	25	100
10	MSCID-210	<b>Practical – II</b> , CAD	75	25	100
<b>Total</b>					<b>1000</b>

# Detailed Syllabus for M.Sc. (MSCID) - Interior Design - 1<sup>st</sup> Year

## **1. Residential Interior Space Design**

(Marks 100) Paper Code – MSCID-101

- Unit No. 1: Introduction of Design
- Unit No. 2: Elements of Design
- Unit No. 3: Principles of Design
- Unit No. 4: Introduction of Interior Design
- Unit No. 5: Standard Dimensions of Living Room Furniture
- Unit No. 6: Dining Area Furniture
- Unit No. 7: Bedroom Furniture
- Unit No. 8: Kitchen Furniture
- Unit No. 9: Bathroom / Toilet (Sanitary Wares)
- Unit No. 9: Measurement Plan
- Unit No. 10: Bubble Diagram and Furniture Layout
- Unit No. 11: Interior Elevations of Walls
- Unit No. 12: Planning of Living Room
- Unit No. 13: Planning of Dining Area
- Unit No. 14: Planning of Bedroom
- Unit No. 15: Planning of Kitchen
- Unit No. 16: Planning of Bathroom
- Unit No. 17: Planning of the Circulation Space
- Unit No. 18: Flooring Layout
- Unit No. 19: False Ceiling
- Unit No. 20: Electrical Layout
- Unit No. 21: Room Orientation

## **2. Building Materials - I**

(Marks 100) Paper Code – MSCID-102

Unit No. 1: **Brick:**

- Qualities of good brick,
- Field test,
- Terminology,
- Precautions to be taken in brick laying & size.

Unit No. 2: **Stone:**

- Classification,
- Qualities of good stone
- Laying
- Dressing
- Different textures and applications.

Unit No. 3: **Sand:**

- Types and application

Unit No. 4: **Timber:**

- Types,
- Cross sections of exogenous tree
- Defects in timber,
- Seasoning,
- Application in interior,
- Application of artificial timber e.g. veneers plywood.

Unit No. 5: **Cement:**

- Types,
- Field test for cement
- Application of cement

Unit No. 6: **Mortar:**

- Types
- Application

Unit No. 7: **Clay Products:**

- Types
- Application

Unit No. 8: **Lime:**

- Types
- Application

Unit No. 9: **Stone Ware and Porcelain:**

- Application in Interior Design

Unit No. 10: **Concrete:**

- Types
- Application
- Precautions to be taken in handling and transportation.

Unit No. 11: **Glass:**

- Types
- Applications of glass in various interiors.

Unit No. 12: **Paints:**

- Varnishes: Types and applications in various interiors.

Unit No. 13: **Hard ware:**

- Types and application

### **3. Drawings and Graphics**

(Marks 100) Paper Code – MSCID-103

Unit No. 1: Draftsmanship

1. Introduction to Draftsmanship
2. Need for training, duties determining needs and wishes of the client
3. Relationship between two-dimensional and three dimensional diagrams

Unit No. 2: Drafting Tools and techniques

1. Introduction of drawing table and boards, How to handle – handling paper and pencil.
2. Types of scales, Tools for curves and irregular forms – Drawing aids.
3. Drafting mediums – Tracing papers, tracing cloth, water colour paper, sketch paper, vellum and polyester film.

Unit No. 3: Basics of Drawing

1. Measurements
2. Lines – Types of lines and lines thickness
3. Lettering – Single stroke letter, Gothic letters.
4. Dimensioning – Types of dimensioning, different types of dimensioning lines
5. Drawing and drawing methods
6. Geometrical figures

Unit No. 4: Architectural Symbols

1. Structural symbols, window and door symbols.
2. Plumbing symbols and electrical symbols.

Unit No. 5: Architectural Drawing

1. Orthographic and isometric Projection
2. Perspective Projection – one point and two point Free Hand
3. Sciography – Shades and Shadow of objects, Presentation Techniques
4. Rendering and Coloring
5. Presentation Drawing, Perspective Projection

## **4. Commercial Interior Space Design**

(Marks 100) Paper Code – MSCID-104

Unit No. 1: Introduction to design

Unit No. 2: Standard dimensions of office furniture

Unit No. 3: Waiting area furniture

Unit No. 4: Office table computer work furniture

Unit No. 5: Staff cabin furniture

Unit No. 6: Office files storage and cabinets

Unit No. 7: Common areas

Unit No. 8: Main cabins

Unit No. 9: Conference room

Unit No. 10: Pantry area

Unit No. 11: Canteen

Unit No. 12: WCs

Unit No. 13: Store room

Unit No. 14: Planning of the circulation space

Unit No. 15: Planning of office

## **5. Residential Interior Space Design- Project -I**

(Marks 100) Paper Code – MSCID-105

- Unit No. 1: Design brief
- Unit No. 2: Picture board - 3
- Unit No. 3: Principles of Design – 3 sheets
- Unit No. 4: Measurement Plan-1
- Unit No. 5: Civil Changes layout -1
- Unit No. 6: Bubble diagram – (5 sheets)
- Unit No. 7: Concept of Design (write-up)
- Unit No. 8: Furniture layout
- Unit No. 9: Elevation – (12 Sheets)
- Unit No. 10: Flooring layout
- Unit No. 11: Reflected False ceiling layout
- Unit No. 12: Electrical layout
- Unit No. 13: Plumbing layout
- Unit No. 14: A/C layout
- Unit No. 15: Perspective – (10 Sheets)
- Unit No. 16: Perspective of external facade
- Unit No. 17: Material Chart
- Unit No. 18: Estimate
- Unit No. 19: Model

## **6. Commercial Interior Space Design- Project - II**

(Marks 100) Paper Code – MSCID-106

- Unit No. 1: Design brief
- Unit No. 2: Picture board - 3
- Unit No. 3: Principles of Design – 3 sheets
- Unit No. 4: Measurement Plan-1
- Unit No. 5: Civil Changes layout -1
- Unit No. 6: Bubble diagram – ( 5 sheets )
- Unit No. 7: Concept of Design ( write-up)
- Unit No. 8: Furniture layout
- Unit No. 9: Elevation – (12 Sheets)
- Unit No. 10: Flooring layout
- Unit No. 11: Reflected False ceiling layout
- Unit No. 12: Electrical layout
- Unit No. 13: Perspective – (10 Sheets)
- Unit No. 14: Material Chart
- Unit No. 15: Estimate

## **7. Building Services - I**

(Marks 100) Paper Code – MSCID-107

Unit No. 1: Fire Protection System

Unit No.2: Acoustics

Unit No. 3: Lighting

Unit No. 4: Sanitary Fixtures and Fittings

Unit No. 5: Air conditioning

Unit No. 6: Building Drainage System

Unit No.7: Termite proofing, waterproofing

## **8. Professional Practice - I**

(Marks 100) Paper Code – MSCID-108

Unit No. 1: Estimates

Unit No. 2: Office letter writing

Unit No. 3: Role of Designer

Unit No. 4: Role of Indian Institute of Interior Designers

## **9. Drawing and Graphics – Practical -I**

(Marks 100) Paper Code – MSCID-109

**Note:** The Portfolio should cover sheet from all the chapters mentioned below:

Unit No. 1: Draftsmanship

1. Introduction to Draftsmanship
2. Need for training, duties determining needs and wishes of the client
3. Relationship between two-dimensional and three dimensional diagrams

Unit No. 2: Drafting Tools and techniques

1. Introduction of drawing table and boards, How to handle – handling paper and pencil.
2. Types of scales, Tools for curves and irregular forms – Drawing aids.
3. Drafting mediums – Tracing papers, tracing cloth, water colour paper, sketch paper, vellum and polyester film.

Unit No. 3: Basics of Drawing

1. Measurements
2. Lines – Types of lines and lines thickness
3. Lettering – Single stroke letter, Gothic letters.
4. Dimensioning – Types of dimensioning, different types of dimensioning lines
5. Drawing and drawing methods
6. Geometrical figures

Unit No. 4: Architectural Symbols

1. Structural symbols, window and door symbols.
2. Plumbing symbols and electrical symbols.

Unit No. 5: Architectural Drawing

1. Orthographic and isometric Projection
2. Perspective Projection – one point and two point Free Hand
3. Sciography – Shades and Shadow of objects, Presentation Techniques
4. Rendering and Coloring
5. Presentation Drawing, Perspective Projection

## **10. Building Materials - Practical - II**

(Marks 100) Paper Code – MSCID-110

Unit No. 1: **Brick:**

- Qualities of good brick,
- Field test,
- Terminology,
- Precautions to be taken in brick laying & size.

Unit No. 2: **Stone:**

- Classification,
- Qualities of good stone
- Laying
- Dressing
- Different textures and applications.

Unit No. 3: **Sand:**

- Types and application

Unit No. 4: **Timber:**

- Types,
- Cross sections of exogenous tree
- Defects in timber,
- Seasoning,
- Application in interior,
- Application of artificial timber e.g. veneers plywood.

Unit No. 5: **Cement:**

- Types,
- Field test for cement
- Application of cement

Unit No. 6: **Mortar:**

- Types
- Application

Unit No. 7: **Clay Products:**

- Types
- Application

Unit No. 8: **Lime:**

- Types
- Application

Unit No. 9: **Stone Ware and Porcelain:**

- Application in Interior Design

Unit No. 10: **Concrete:**

- Types
- Application
- Precautions to be taken in handling and transportation.

Unit No. 11: **Glass:**

- Types
- Applications of glass in various interiors.

Unit No. 12: **Paints:**

- Varnishes: Types and applications in various interiors.

Unit No. 13: **Hard ware:**

- Types and application

## **Detailed Syllabus for M.Sc. (MSCID) - Interior Design – 2<sup>nd</sup> Year**

### **1. Design with Thesis**

(Marks 100) Paper Code – MSCID-201

**Objectives:** Implement the theoretical and practical knowledge gained through the curriculum into an application suitable for a real practical working environment preferably in an industrial environment.

Get exposure on industrial environment and its work ethics. Acquire the practical knowledge regarding the working procedure.

To get acquainted with the basic interior design concepts related to the Interior Business.

Learn and understand the gap between the technological knowledge acquired through curriculum and the actual industrial need and to compensate it by acquiring additional knowledge as required.

Procedure:

Students have to select any one topic of their own interest under the guidance of the department faculty in their area of specialization, emphasizing the principles studied in the theory and practical subjects.

Each student shall finally produce a comprehensive report covering the Project Work details such as Architectural Design, Working Drawing, Model and Approximate estimate of the Project and Conclusion.

The Project shall be Planning and designing of any one of the following: 1. Residential Building, 2. College Building, 3. Hostel Building, 4. Hotel Building, 5. Nursing Home, 6. School Building, 7. Guest House, 8. Bank Building, 9. Shopping Complex, 10. Community Hall, 11. Theatre 12. Apartment 13. Staff Quarters 14. Restaurant (The building selected should have a minimum of TWO floors.)

- The report/ thesis should consist of:
- Objective of the report



- Acknowledgements
- Introduction of the report
- Detailed description of the traditional aspects
- Illustrations of the garments designed
- Specification sheet of the final garment
- Sketch/ Picture of the final garment
- Summary of the report
- Bibliography

**Evaluation:** The external examiner will evaluate the project report and take a viva of the student.

The evaluation will be done as per the Scheme of Examination of the University.

The viva will have questions from the syllabus of I and II years.

## **2. Theory of Architecture**

(Marks 100) Paper Code – MSCID-202

Unit No. 1: Introduction to Architecture

Unit No. 2: Ancient and Classical Architecture

Unit No. 3: Indian Architecture

Unit No. 4: Architectural Masterpieces of Asia & Europe

## **3. Professional Practice-II**

(Marks 100) Paper Code – MSCID-203

Unit No. 1: Architect and his Services

Unit No. 2: Rules and Regulations of the Profession

Unit No. 3: Tender

Unit No. 4: Contract

## **4. Working Drawing**

(Marks 100) Paper Code – MSCID-204

Unit No. 1: Acoustic Door

Unit No. 2: Window Seating

Unit No. 3: Suspended ceiling (illuminated)

Unit No. 4: Partly Glazed Partition T.W.

Unit No. 5: Partition – Aluminum

Unit No. 6: Bar Counter

Unit No. 7: Telephone Booth

Unit No. 8: Screen for Stage (Wings)

Unit No. 9: Display Board

Unit No.10: Spiral Staircase

## **5. CAD**

(Marks 100) Paper Code – MSCID-205

- Unit No. 1: Introduction
- Unit No. 2: An Overview of CAD
- Unit No. 3: Advantages of Auto CAD
- Unit No. 4: AutoCAD system requirements
- Unit No. 5: Accessing Commands
- Unit No. 6: Editing Command or Text Window text
- Unit No. 7: Correcting Mistakes
- Unit No. 8: Refreshing the screen display
- Unit No. 9: Opening a Drawing and Saving an Existing File

## **6. Building Services - II**

(Marks 100) Paper Code – MSCID- 206

- Unit No. 1: Introduction to mechanical ventilation in buildings Air-conditioning; Types of Air-conditioning; Systems in air-conditioning; Exhaust system, combines system movements
- Unit No. 2: Fire hazards in buildings - i) Cause and spread of fire ii) Firefighting equipment and different methods of fighting fire; Code of safety prescribed by I.S.I.
- Unit No. 3: Principles of heat and sound propagation; Methods of achieving good acoustic condition in auditoriums, classrooms, etc. Construction details for acoustic treatment of rooms
- Unit No. 4: Introduction to different type of artificial lighting systems, light sources and luminaries, Application of lighting system, Design for lighting in - Shops and show windows, Offices, Classroom and lecture halls, Stage, Auditorium, etc.

## **7. Building Materials - II**

(Marks 100) Paper Code – MSCID- 207

- Unit No. 1: **Concrete:** Types, application, precautions to be taken in handling and transportation. furnishing and cladding materials
- Unit No. 2: **Glass:** Types, applications of glass to various interiors.
- Unit No.3: **Paints, varnishes,** Types, and applications in various interiors.
- Unit No. 4: **Distempers** Types, applications in various interiors.
- Unit No. 5: **Iron:** Pig iron, Wrought iron, Cast iron , applications
- Unit No. 6: **Non-Ferrous Metals**
- Unit No. 6: **Steel and its uses**
- Unit No. 7: **Plastics:** Classification, application etc.
- Unit No. 8: **Hard ware:** Types and application
- Unit No. 9: **Furnishing Materials**

## **8. Environmental Studies**

(Marks 100) Paper Code – MSCID- 208

Unit No. 1: Landscape Architecture

- Introduction to Landscape Architecture
- Scope of landscape architecture
- Role of a landscape architect
- Comparing landscape design with architecture

Unit No. 2: Landscape Elements

- Introduction to the landscape elements (landform, water, vegetation, architectural elements). Understanding the visual (color, form, texture) / non-visual (smell, touch, sound) attributes of these elements and their usage and application in design
- Integration of indoor and outdoor spaces
- History of Landscape Architecture: To study of various principles and philosophies of landscape design throughout the world from ancient to contemporary times

Unit No. 3: Landscape Services

- Plant selection criteria in landscape based upon visual, functional, micro-climatic and ecological aspects. Also understanding effect of time on planting design
- Site analysis and Site planning
- Introduction to landscape services such as outdoors lighting, surface water drainage, irrigation
- Landscape constructional details of the following- paving, curbs, steps, roof garden, retaining walls

Unit No. 4: Environments and Landscape

Introduction to environment and its components with reference to concepts of :

- Environmental assessment of materials used in interiors and landscape
- Application of landscape design to conserve the environment.
- Microclimatic control using landscape elements

Unit No. 5: Energy Conservation

- Introduction to the concepts of design for energy conservation including day lighting and climate response
- Non-conventional energy sources, conservation of natural resources (land, water, vegetation), alternative building materials, water harvesting (roof water harvesting, recharging ground water, etc.),
- Solid waste management (vermiculture pits, compost pits, degradable, non degradable waste).

## **9. Working Drawing- (Practical –I)**

(Marks 100) Paper Code – MSCID- 209

**Note: The Portfolio should cover sheet from all the chapters mentioned below**

Unit No. 1: Acoustic Door

Unit No. 2: Window Seating  
Unit No. 3: Suspended ceiling (illuminated)  
Unit No. 4: Partly Glazed Partition T.W.  
Unit No. 5: Partition – Aluminum  
Unit No. 6: Bar Counter  
Unit No. 7: Telephone Booth  
Unit No. 8: Screen for Stage (Wings)  
Unit No. 9: Display Board  
Unit No. 10: Spiral Staircase

### **10. CAD – Practical – II**

(Marks 200) Paper Code – MSCID- 210

Unit No. 1: Introduction  
Unit No. 2: An Overview of CAD  
Unit No. 3: Advantages of Auto CAD  
Unit No. 4: AutoCAD system requirements  
Unit No. 5: Accessing Commands  
Unit No. 6: Editing Command or Text Window text  
Unit No. 7: Correcting Mistakes  
Unit No. 8: Refreshing the screen display  
Unit No. 9: Opening a Drawing and Saving an Existing File

**Note: Any one design portfolio should be prepared in CAD**