

## INTERIOR DESIGN STUDIO II [Sustainable interiors and CAD]

Course Code	<b>MAID201</b>	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	02:06:00	SEE VIVA Marks	50
Credits	09	TOTAL	100

### Course Objective

1. Resolving complex issues in interior spaces through design language
2. Evolving method of studies, analysis & design process.
3. Understand the use of sustainable methods and materials in the design of interiors
4. Design Commercial spaces. (Barrier free interiors. Interiors for children or the elderly)
5. Use of advanced Software to generate the drawings

### Pedagogy (Method and Practice of Teaching, Self-Study)

1. The studio will be divided into the practical and the theory part. The theory will consist of the faculty introducing and sharing various standards and other material required for the studio work.
2. Principles of Sustainable Interior Design- Different types of materials for different interiors. Recycled and up-cycled materials in interiors Benefits of Green Interiors - introduce green aspects of interiors
3. Practical aspect will involve the site visit and other case study visits by the students for better understanding.
4. The students will also be given reference book list and other online repository portals that they can learn and refer to for the studio.

### Module I

#### Psychology of Space: Impact of Interior on Behaviour.

Introduction to behavioral changes through Interior Design, space psychology, and generative design.

#### Sustainable materials and methods in interior design

### Module II

#### Understanding Retail and Commercial Interior Design

Understanding the usage pattern of multiple user groups in single space. Understanding the principles of retail, commercial design and planning of public spaces.

### Module III

#### Advanced Graphic Representation

Advanced Graphic Representation via Portfolio and Brand Identity Building for Clients

### Module IV

#### Design Exercise - Minor Project

A Minor project like a day care center or children's clinic or a small café that is inclusive in design.

Students are expected to follow the design process, programming, space planning, and selection of finishes, furniture textures and preparation of professional presentations.

### Module V

#### Design Exercise - Major Project

Design of commercial multi-functional spaces like High end Showrooms, Restaurants, and Corporate Offices through the application of afore-mentioned principles. Students are expected to follow the design process, programming, space planning, selection of finishes, furniture textures and preparation of professional presentations

### Course outcomes:

At the end of the course the student will be able to:

1. Evolve a design methodology that will help in the design process
2. Develop design skills for Commercial spaces & barrier free design.
3. Develop design skills with respect to anthropometry of the young and the elderly
4. Use sustainable materials and method in their design (green/ low/ zero carbon footprint materials)
5. Use advanced software to demonstrate their design.

### Assessment Details (both CIE and SEE)

**Continuous Internal Evaluation:** The CIE will be progressive marking:

Each week discussion will be marked and considered for 50 + Internal Reviews for 50 + External Reviews for 50 + Final Portfolio for 50.

Total 200 will be then reduced to 50

### Semester End Examination:

Will be a VIVA for **50 marks**.

The VIVA VOCE examination will be conducted by one external examiner (from academics/profession) and one internal examiner for I, II and III Semesters.

The VIVA VOCE duration will be 15 minutes each per student for I, II and III Semesters

**Textbook/ Textbooks**

<b>Sl No</b>	<b>Title of the Book</b>	<b>Name of the Author/s</b>	<b>Name of the Publisher</b>	<b>Edition and Year</b>
(1)	The Fundamentals of Interior Architecture	John Coles, Naomi House	Bloomsbury Publishers	2007
(2)	Interior Design	John Pile	Pearson/Prentice Hall	2003

**Reference Books**

<b>Sl No</b>	<b>Title of the Book</b>	<b>Name of the Author/s</b>	<b>Name of the Publisher</b>	<b>Edition and Year</b>
(1)	Interior design Illustrated	Francis.D.K.Ching Corky Binggeli	Wiley	2018
(2)	Time Saver standards for Interior Design & Space Planning	Joseph de Chiara, Julius Panero and Martin Zelnik	McGraw Hill Professional	2003

## INTERIOR DESIGN MATERIALS & CONSTRUCTION – II

Course Code	<b>MAID202</b>	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	2:0:2	SEE VIVA Marks	50
Credits	04	TOTAL	100

### Course Objectives

1. To facilitate the understanding of the properties of materials used in interiors
2. To enable a better understanding of the applications of glass,
3. To enable a better understanding of suitability of metal and its finishes for different interior applications
4. To enable a better understanding of the applications of plastics in interiors
5. To enable a better understanding of the applications of textiles in interiors

### Pedagogy (Method and Practice of Teaching, Self-Study)

1. The studio will be divided into the practical and the theory part. The theory will consist of the faculty introducing the topic and its application as well as the various techniques employed in the construction process.
2. Practical aspect will involve the site visits and other case study visits by the students for better understanding of the material and its practical application  
The students will also be given reference book lists and other online repository portals that they can learn and refer to for the studio.

### Module-1

#### Glass

Types of Glass, ingredients, properties & application. Stained glass.  
Glass in Green Buildings.

### Module-2

**Metal:** Ferrous & non-ferrous metals – steel, copper, brass.

Steel – material properties, types of steel, treatments, history of steel making.

Copper – physical characteristics, history, applications, degradation.

Brass – physical properties, corrosion resistance, history, applications

### Module-3

#### Plastics

History, types of plastics. Polystyrene, Nylon, Rubber and its properties. Environmental effects of plastics.

Recycling of plastic. Common plastics and its uses.

Types of moulding plastics – blow moulding, extrusion moulding, injection moulding.

### Module-4

#### Textiles

Role of textiles in interior design. Properties and applications.

#### Materials for finishes

### Module-5

Estimation and costing and preparation of BOQ for the interiors [for the relevant topics]

**NOTE:** Working drawing of furniture and or object designed to be completed for the topics covered where relevant.

### Course outcomes:

At the end of the course the student will be able to:

6. Understand and analyze the suitability of glass and its finishes for different interior applications
7. Understand and analyze the suitability of metal and its finishes for different interior applications
8. Understand and analyze the suitability plastics for different interior applications
9. Understand and analyze the suitability of various textiles and their applications for different interiors
10. Prepare the estimation and preparation and BOQ for the given materials and furniture and furnishings

### Assessment Details (both CIE and SEE)

**Continuous Internal Evaluation:** The CIE will be progressive marking:

Each Plate will be marked for 10 [80 total] + Viva (for every CIA) 50 + Case Study Presentation 20 + final Portfolio for 50.

Total 200 will be then reduced to **50 marks**

**Semester End Examination:**

The VIVA will be conducted for **50 marks**.

The VIVA VOCE examination will be conducted by one external examiner (from academics/profession) and one internal examiner for I, II and III Semesters.

The VIVA VOCE duration will be 15 minutes each per student for I, II and III Semesters.

**Textbook/ Textbooks**

<b>Sl No</b>	<b>Title of the Book</b>	<b>Name of the</b>	<b>Name of the</b>	<b>Edition and</b>
(1)	Construction materials for interior design: principles of structure and properties of materials	William Rupp, Arnold Friedmann, Philip F. Farrell	Whitney Library of Design	1989
(2)	Inside: interiors of colour, fabric, glass, light.	Sibylle Kramer, Iris van Hülst.	Braun Publishing	2007

**BUILDING SERVICE FOR INTERIORS - II**

Course Code	<b>MAID203</b>	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	3:2:0	SEE Marks [THEORY]	50
Credits	04	Exam Hours	03

**Course Objectives**

1. To facilitate the understanding of thermal comfort in buildings
2. To enable a better understanding of HVAC and other air conditioning and distribution systems
3. To enable a better understanding of acoustics in interiors

**Pedagogy (Method and Practice of Teaching, Self-Study)**

1. The pedagogy will focus on the need for integration of services into interior design.
2. Site visits to understand plumbing and electrical layouts and laying
3. Use of visuals, video and audio will be used to augment the teaching process
4. Seminars and talks from the leading experts in the field will be planned for relevant topics

**Module-1****Thermal Comfort**

Thermal comfort in interior spaces, comfort zone, thermal neutrality, thermal indices – metabolic rate, clothing insulation, air temperature, mean radiant temperature, air speed, relative humidity, predicted mean vote (PMV).

**Module-2**

**Significance of thermal comfort**, sick building syndrome, indoor air quality.

Factors influencing thermal comfort, operative temperature. Thermal comfort models – Elevated air speed method, Local thermal discomfort, adaptive comfort model.

Thermoregulation – physiological, behavioural. Effects of natural ventilation on thermal comfort. Thermal comfort in different regions. Thermal stress

**Module-3****HVAC**

HVAC, Air Conditioning methods & equipment - Air distribution system - Calculation of Ac loads

**Module-4****Acoustics**

History of acoustics, fundamental concepts of acoustics, sound propagation, frequency, transduction in acoustics. Acoustic material, properties and sound absorbents.

**Module-5****Building Services And Design Solutions**

Understanding all services & their components - studio work for proposals with emphasis to above services for small as well as large scale projects

**Course outcomes:**

At the end of the course the student will be able to:

1. Understand thermal comfort for interior architecture.
2. Apply the theoretical knowledge to practical HVAC and other air conditioning and distribution systems in interiors
3. To design acoustically correct interiors
4. Provide interior solutions with thermal comfort with HVAC and acoustically treated interiors

**Assessment Details (both CIE and SEE)**

**Continuous Internal Evaluation:** The CIE will be based on Internal Tests and Assignments.

Internal tests:

- One test of 50 marks will be conducted for Every CIA cycle. Total 3 tests per semester.
- One Assignment for 20 marks or two assignments for 10 marks each will be considered for each CIA cycle.
- Assignments will consist of Sketches for 10 marks and written answers for 10 marks. It can also be 10 marks for Quiz and 10 marks for seminar presentation.
- Any combination of the above will be considered for the 20 marks component.
- The total of 50+20 =70 will be reduced to 50

**Semester End Examination:** Will be a written exam for 100 marks reduced to 50.

**Question paper pattern:**

The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.

- The question paper will have ten full questions carrying equal marks.
- Each full question is for 20 marks.
- There will be two full questions (with a maximum of four sub questions) from each module.

The students will have to answer five full questions, selecting one full question from each module

#### **Textbook/ Textbooks**

<b>Sl No</b>	<b>Title of the Book</b>	<b>Name of the Author/s</b>	<b>Name of the Publisher</b>	<b>Edition and Year</b>
(1)	Managing Water Supply and Sanitation in Emergencies (Oxfam Skills and Practice Series)	John Adams	Oxfam	1999
(2)	Building Services Handbook	Fred Hall and Roger Greeno	Routledge	2017

#### **Reference Books**

(1)	HVAC Design Sourcebook	W. Larsen Angel	McGraw-Hill Education	2011
2	Handbook of Acoustics	Malcolm J. Crocker	Wiley	1998
3	The Theory of Sound,	J. W. S. Rayleigh	Dover Publications	2013, Volume One: Unabridged Second Revised Edition
4	Theoretical Acoustics	Philip McCord Morse	Princeton University Press	1968

## LANDSCAPE IN INTERIOR DESIGN

Course Code	<b>MAID204</b>	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	2:0:2	SEE VIVA Marks	50
Credits	03	TOTAL	100

### Course Objectives

1. To introduce interior landscaping
2. To understand the various types of flora required in interior landscaping
3. To understand application of interior landscaping for various types of projects

### Pedagogy (Method and Practice of Teaching, Self Study)

1. The pedagogy will be project oriented
2. Live examples will be studied in the class
3. Guest lectures and expert talks will be arranged for the relevant topics

### Module-1

#### Interior Landscape

Types of indoor plants, plant characteristics, size, biology, soil, moisture, light, nutrient, atmospheric conditions, growing medium, pests & diseases. Market survey & costs

### Module-2

#### Flower & Arrangements

Flowers, its colours, texture and its visual perception in various indoor spaces. Science of flower arrangement

### Module-3

#### Irrigation Systems

Manual versions automatic irrigation , costing & installation of micro irrigation systems

### Module-4

#### Interior Designs

Interior landscape application for residential, commercial and other public use spaces

### Module-5

Case study and Design of landscaping for an interior space

### Course outcomes:

At the end of the course the student will be able to:

- Design an interior landscaping for any given space

### Assessment Details (both CIE and SEE)

**Continuous Internal Evaluation:** The CIE will be progressive marking:

Each Submission will be marked for 10 + Viva (for every CIA) 50 + Case Study Presentation 20 + final Portfolio for 50.

Total will be then reduced to **50 marks**

### Semester End Examination:

The VIVA will be conducted for **50 marks**.

The VIVA VOCE examination will be conducted by one external examiner (from academics/profession) and one internal examiner per student.

The VIVA VOCE duration will be 15 minutes each per student.

### Reference Books

S.No	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
1	Interior Landscaping	Tokuji Furuta, Debra Sievers, Vernon Artman	Reston pub. Co	1983
2	.Interior Landscape design	Nelson Hemmer	McGraw Hill..	1991

## INTERIOR PROJECT MANAGEMENT & PRACTICE

Course Code	<b>MAID206</b>	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	0:2:1	SEE Marks [THEORY]	50
Credits	03	Exam Hours	03

### Course Objectives

To introduce interior project management

To understand the various stages of design process and coordination aspects

To introduce estimation and costing and budgeting

**Pedagogy** (Method and Practice of Teaching, Self-Study)

1. The pedagogy will be project oriented
  2. Live examples will be studied in the class
- Guest lectures and expert talks will be arranged for the relevant topics

### Module-1

#### Interior Project Management – Introduction

Introduction to interior project management, its objectives, resources & team

Client contact & relationship issues, design development stage and co-ordination with various agencies.

### Module-2

#### Management Techniques

Execution of work – planning, scheduling and control.

Project monitoring, programming of works. Tools & techniques for project management; bar charts, network techniques.

### Module-3

#### Estimation & Costing

Project cost analysis – methods of estimating, total budgeting and schedule of payment of various agencies

### Module-4

#### Professional Practice, Market Trends & Survey

Interior design profession: survey of various interior designers, working procedures. Fee systems.

Professional interior design societies, licensing & registering.

### Module-5

**Rate analysis** of various items of interior work: preparation of various items of work in the interiors

Estimating interior items manually and through spreadsheet programs to track the progress of the project.

### Course outcomes:

At the end of the course the student will be able to:

Learn about interior project management & practice

### Assessment Details (both CIE and SEE)

**Continuous Internal Evaluation:** The CIE will be based on Internal Tests and Assignments.

Internal tests:

- One test of 50 marks will be conducted for Every CIA cycle. Total 3 tests per semester.
- One Assignment for 20 marks or two assignments for 10 marks each will be considered for each CIA cycle.
- Assignments will consist of Sketches for 10 marks and design exercises for 10 marks. It can also be 10 marks for Quiz and 10 marks for seminar presentation.
- Any combination of the above will be considered for the 20 marks component.
- The total of 50+20 =70 will be reduced to 50

**Semester End Examination:** Will be a written exam for 100 marks reduced to 50.

### Question paper pattern:

The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.

- The question paper will have ten full questions carrying equal marks.
- Each full question is for 20 marks.
- There will be two full questions (with a maximum of four sub questions) from each module.



The students will have to answer five full questions, selecting one full question from each module.

**Reference Books**

<b>Sl No</b>	<b>Title of the Book</b>	<b>Name of the Author/s</b>	<b>Name of the Publisher</b>	<b>Edition and Year</b>
(1)	The Interior Design Business Handbook: A Complete Guide to Profitability	Mary V Knackstedt / <u>Haney, Laura Knackstedt</u>	Wiley Publishing	2001
(2)	Architect's Essentials of Negotiation - [Professional practice]	Ava J. Abramowitz	Wiley Publishing	2009
(3)	Becoming an Interior Designer	Christine M. Piotrowski	Wiley Publications.	2nd Edition. 2008

**DISSERTATION PHASE I [SYNOPSIS SUBMISSION]**

Course Code	<b>MPRJ287</b>	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	0:00:01	SEE [TW]Marks	50
Credits	02	TOTAL	100

**Course Objectives**

To enable in depth investigation into area of chosen interest

**Pedagogy (Method and Practice of Teaching, Self-Study)**

1. The pedagogy will focus on research methodology and writing aspects.
2. Seminars and workshops on research and writing by eminent personalities will be organised  
Use of visuals, video and audio will be used to augment the teaching process

**Course Description**

The topic chosen should be related to the design thesis and may involve the following areas of study in four stages: An in-depth investigation into any aspect of the chosen area Analysis of data, inferences to establish underlying principles Evaluation of existing theory in new concepts Establishment of a hypothesis and its substantiation. The particulars of schedule, content presentation, format etc, as decided by the department from time to time, shall be strictly followed. The progress will be periodically reviewed by internal jury members.

**Course outcomes:**

At the end of the course the student will be able to:  
Present a paper on the topic of their choice.

**Assessment Details (CIE and SEE)**

**Continuous Internal Evaluation:** The CIE will be progressive marking:

Each week discussion will be marked and considered for 50 + Seminar for 50 + Final Report for 100.  
Total 200 will be then reduced to 100

**Semester End Examination**

Will be a TERM WORK for **50 marks**.

The TERM WORK examination will be conducted by one external examiner(from academics/profession)  
And one internal examiner for the final report submitted by each student.

**Textbook/ Textbooks**

Sl No	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
(1)	The Dissertation Journey: A Practical and Comprehensive Guide to Planning, Writing, and Defending Your Dissertation	Carol M. Roberts,  Laura Z. Hyatt	Corwin	<b>2004</b>
(2)	Demystifying Dissertation Writing: A Streamlined Process from Choice of Topic to Final Text	Peg Boyle Single and Richard M. Reis	Stylus Publishing	Sep 2009

**GRAPHIC COMMUNICATION & SIGNAGE [ELECTIVE]**

Course Code	<b>MAID215A</b>	CIE Marks	100
Teaching Hours/Week (L:P:SDA)	2:0:1	SEE Marks	-
10	03	TOTAL	100

**Course Objectives**

To enable understanding of the history of graphics and communication  
 To understand the various visual communication systems  
 To introduce the various types of signages and their use in design  
 To understand graphics as a space transforming element

**Pedagogy (Method and Practice of Teaching, Self-Study)**

1. The pedagogy will focus on both the 2D and 3D aspects of graphics.
  2. Learning graphics through various software
  3. Workshops on typography, graphical representation techniques etc
- Use of visuals, video and audio will be used to augment the teaching process

**Module-1****Graphic Communication**

History of communication- graphics, communication, visual communication & communication design. Graphic design- typography, visual arts, page layout. Graphic representation, graphicacy.

**Module-2****Visual Communication Systems**

Gestalt Theory, Aldous Huxley. Image analysis & its perspectives. Visual Aids & its types. Visual aids media- simple to advance.

**Module-3****Signages & Audio Visuals**

History of signages. Functions of signs. Sign technologies- banner, bill boards, digital signs, street signs, neon signs, LED signs. Digital signs & its different applications.

**Module-4**

Graphics & Image making – audio visuals and graphic systems.

**Module-5****Graphic As A Space**

Graphic as a space – making element. Graphic as space transforming element.

**Course outcomes:**

At the end of the course the student will be able to:  
 Learn in detail about graphic communication & signage.ood graphics  
 The software skills to create good graphics  
 Create digital and physical signs

**Assessment Details (CIE Only)**

**Continuous Internal Evaluation:** The CIE will be based on Internal Tests and Assignments.

Internal tests:

- One test of 50 marks will be conducted for Every CIA cycle..
- One Assignment for 20 marks or two assignments for 10 marks each will be considered for each CIA cycle.
- Assignments will consist of Sketches for 10 marks and design exercises for 10 marks. It can also be 10 marks for Quiz and 10 marks for seminar presentation.
- Any combination of the above will be considered for the 20 marks component.

The total of 50+20 =70 will marked up to 100

**Textbook/ Textbooks**

Sl No	Title of the Book	Name of the	Name of the	Edition and
(1)	Graphic Communications Today, 4E (Design Concepts)	William E Ryan, Theodore E. Conover	Cengage Learning	2003
(2)	Signage Systems and Information Graphics	Andreas Uebele	Thames Hudson	1st edition, 2010

**Reference Books**

- |     |  |  |                                  |      |
|-----|--|--|----------------------------------|------|
| (1) | Technical Graphics<br>Communication  | Gary Robert<br>Bartolini, Eric N.<br>Wiebe | McGraw-Hill Higher<br>Education  | 2009 |
| (2) | Signage Design Manual  | Edo Smitshuijzen                           | Prestel Publications             | 2007 |
| (3) | Digital Graphic Design   | Bob Gordon and<br>Maggie Gordon            | Watson-Guptill<br>Publications   | 2002 |
| (4) | Perspective Space & Design   | Louise Bowen<br>Ballinger                  | Van Nostrand<br>Reinhold Company | 1969 |
| (5) | System Graphics:<br>Breakthroughs In Drawing<br>Production And Project<br>Management For Architects,<br>Designers, And Engineers | Fred A Stitt                               | Mcgraw Hill<br>Company           | 1983 |

**PSYCHOLOGY & HUMAN BEHAVIOR [ELECTIVE]**

Course Code	<b>MAID215B</b>	CIE Marks	100
Teaching Hours/Week (L:P:SDA)	4:0:0	SEE Marks	-
Credits	03	TOTAL	100

**Course Objectives**

To introduce  
To understand the  
To introduce

**Pedagogy (Method and Practice of Teaching, Self Study)**

- The pedagogy will be project oriented
- Live examples will be studied in the class
- Guest lectures and expert talks will be arranged for the relevant topics

**Module-1****Human Behavioral Pattern**

Analysis of human mind & his or her image world.  
Human being and social behavioural patterns in various public & private areas.

**Module-2****Territorial & Group Psychology**

Human behavior in a group of two, three, and more. Activities and its relationship with grouping of people.  
Privacy, territoriality & defensible space.

**Module-3****Modernization & Impacts On Human Behaviour**

Modernization, change in society, change in thought process and behavioral patterns.  
Behavior and its co relation to design elements

**Module-4****Behaviour Pattern & Space Planning**

Relation of behavior patterns of human being in space planning for public areas like theatre lounge, waiting rooms, hotel foyer, café and other rooms.

**Module-5**

Case study and Literature study of any one project that has inculcated the above aspects. Analysis and inference and compilation of a report based on the study.

**Course outcomes:**

At the end of the course the student will be able to:

- Learn about how design can impact behaviour and the various ways of reinforcing positive behaviour through design

**Assessment Details (CIE only)**

**Continuous Internal Evaluation:** The CIE will be based on Internal Tests and Assignments.

Internal tests:

- One test of 50 marks will be conducted for Every CIA cycle..
- One Assignment for 20 marks or two assignments for 10 marks each will be considered for each CIA cycle.
- Assignments will consist of Sketches for 10 marks and design exercises for 10 marks. It can also be 10 marks for Quiz and 10 marks for seminar presentation.
- Any combination of the above will be considered for the 20 marks component.
- The total of 50+20 =70 will marked up to 100

**Reference Books**

S.No	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
1	An Introduction to Social Psychology,Chapter 8: Behavior Patterns: Their Nature and Development	Luther Lee Bernard	Henry Holt and Co	1926
2	The Psychology of the Interior	Agnieska Mlicka	University of Oxford	2006
3	The System of Objects (Verso	Baudrillard, J	Bookmarque .United	1996

4	English Edition Social Attributions Based on Domestic Interiors	Mackenzie, N.E.; M.A. Wilson	Kingdom Journal of Environmental Psychology, 20: 343- 354	2000
5	The Emergence of the Interior	Rice, Charles	Oxon: Routledge	2007
6	"La Maison de Verre: Negotiating a Modern Domesticity".	Edwards, M.J.; W.G. Gjertson	Journal of Interior Design	2008

\*\*\* END OF II SEMESTER\*\*\*