Your Dreams Our Goal

POORNIMA UNIVERSITY

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)

FACULTY OF DESIGN & ARTS

PROGRAM: MASTER OF DESIGN (INTERIOR DESIGN)

SCHEME & SYLLABUS BOOKLET

BATCH 2025-2027

INDEX

Disclaimer: The scheme, syllabus and other materials published in this booklet may be changed or modified as per the requirement after approval of competent authority. The decision taken by the management of Poornima University will be final and abiding to all.

Your Dreams Our Goal

POORNIMA UNIVERSITY

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)

Vision

Our vision is to create a knowledge based society with scientific temper, team spirit and dignity of labor to face global competitive challenges.

Mission

Our mission is to evolve and develop skill based systems for effective delivery of knowledge so as to equip young professionals with dedication and commitment to excellence in all spheres of life.

Quality Policy

To provide quality education through faculty development, updating of facilities and continual improvement for meeting norms laid down by the government, keeping the stakeholders satisfied. Poornima University has forged industrial alliances with Top MNC's worldwide which assures high educational standards, up to- date and forward-thinking curricula, and professional relevance. At Poornima University you will have a distinct advantage through exposure to the corporate standard environment through industry sponsored infrastructure and expert faculty. The University involves global industry leaders in many ways.

Knowledge Wheel

At Poornima, the academic atmosphere is a rare blend of modern technical as well as soft skills and traditional systems of learning processes.

About Program and Program Outcomes (PO):

Title of the Program:

Nature of the Program:

Program Outcomes (POs):

Graduates will be able to:

PO1: Managerial Knowledge – Apply managerial and business development skills to meet the needs of dynamic Design industry.

PO2: Problem Analysis – Identify, research, analyse, and propose managerial solutions based on the market demand focusing on corporate and social responsibilities.

PO3: Design Development – Develop designs based on forecasted trends for Products and Interior solutions globally.

PO4: Conduct Investigations of Problems – Use research methods for problem identification, collecting and interpreting data, and analysis to propose design solutions.

PO5: Modern Tool Usage – Application of digital tools and resources for prediction and design development with an understanding of the limitations.

PO6: The Manager and Society – Apply reasoning to address health and safety, social aspects relevant to professional practice and social responsibility.

.

PO7: Environment and Sustainability – Understand the impact of professional, managerial solutions in societal and environmental contexts, demonstrate the knowledge and need for sustainable development.

PO8: Ethics – Apply ethical principles, and commit to professional ethics and responsibility

PO9: Individual and Teamwork – Function effectively as an individual, as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication – Communicate effectively on complex managerial activities, with the business community and with society, such as, being able to comprehend and write effective reports, make effective presentation, and give and receive clear instructions.

PO11: Project Management and Finance – Demonstrate knowledge and understanding of the management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

PO12: Lifelong learning – Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the context of technological change.

Program Specific Outcomes (PSOs):

PSO1: The student will be able to analyze the markets structure, operational procedures of the industry for design solution, client's specifications in terms of domestic and international market following trend forecasting, quality standards sustainability prevailing in the Interior Design Industry.

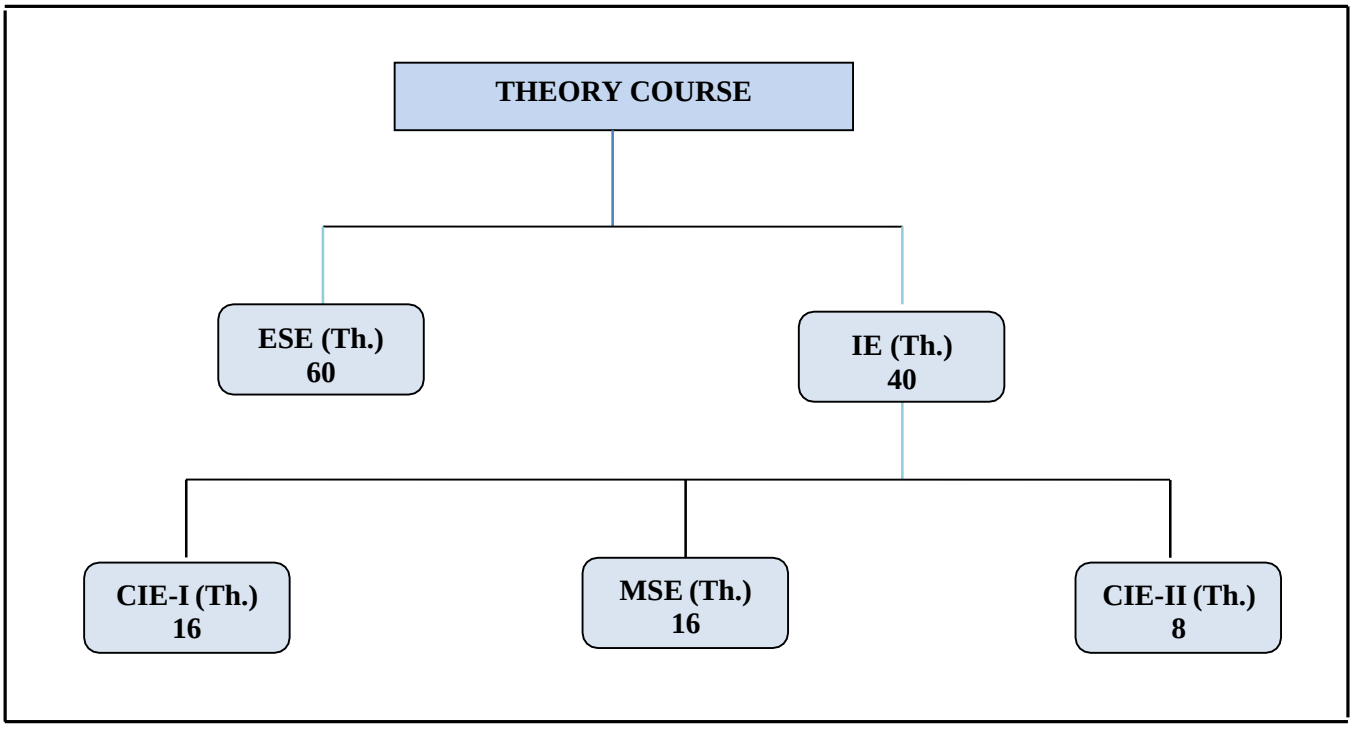
PSO2: Achieve professionalism, expertise presentations, demonstrate proficiency and working with creative hand skills, presentation technology, uses of indigenous material adorn global role play.

PSO3: Ability to analyze Interior design with intelligence and contextual association in terms of issues related to the subject and its international and national relevance

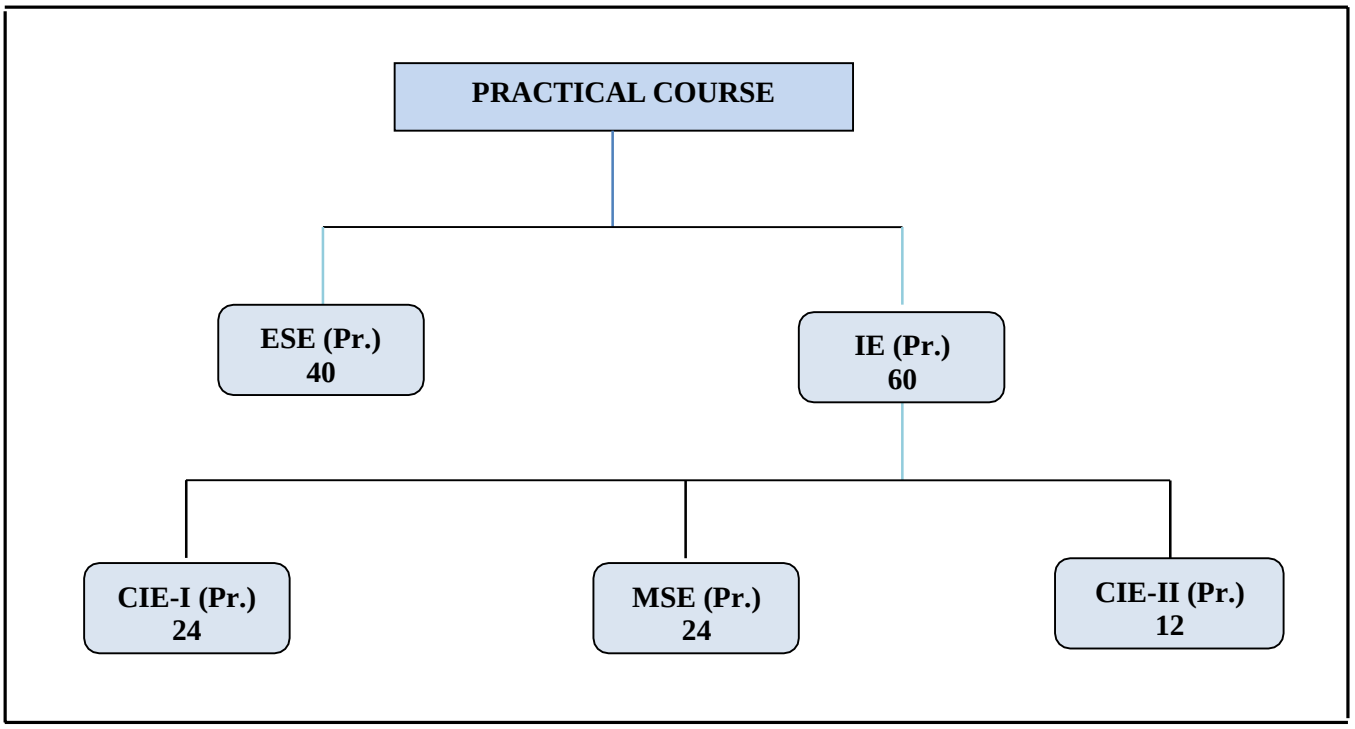
PSO4: To formulate and hypothesize the design brief practically take initiative, plan, organize consider fulfill the set objectives, merge research activities and deliver project outcomes

Examination System :

Marks Distribution of Theory Course:



A. Marks Distribution of Practical Course :



Th.: Theory, Pr.: Practical, **ESE:** End Semester Examination, **MSE:** Mid Semester Examination, **CIE:** Continuous Internal Evaluation.

CO Wise Marks Distribution:

Exam Entity	Theory Subject		Practical/ Studio Subject	
	Maximum Marks	CO to be Covered	CO to be Covered	Maximum Marks
CIE-I	16 (8 + 8)	1 & 2	1 & 2	24 (12 + 12)
MSE	16 (8 + 8)	3 & 4	3 & 4	24 (12 + 12)
CIE-II (Activity/ Assignment)	8 (8)	5	5	12 (12)
ESE	60	-	-	40
TOTAL	100	-	-	100

Minimum Passing Percentage in All Exams:

S. No.	Program Name	Minimum Passing Percentage in		
		IE Component	ESE Component	Total Component
1	Course Work for PhD Registration	-	-	50%
2	B. Arch., FIRE Dept. (BBA, B. Com., MBA)	-	45%	50%
3	MBA, MCA, M.Des., M.Tech., M.Plan, MHA, MPH	-	40%	40%
4	B. Tech., B. Des., BVA, BCA, B.Sc., BBA, B.Com., B.A. & any other program	-	35%	35%

SGPA Calculation

$$SGPA = \frac{C_1G_1 + C_2G_2 + \ldots\ldots\ldots + C_nG_n}{C_1 + C_2 + \ldots\ldots + C_n}$$

$$SGPA = \frac{\sum_i C_i \times G_i}{\sum_i C_i}$$

where (as per teaching scheme & syllabus):

C_i is the number of credits of subject i,

G_i is the Grade Point for the subject I and i = 1 to n,

n = number of subjects in a course in the semester

CGPA Calculation

$$CGPA = \frac{C_1G_1 + C_2G_2 + \ldots\ldots\ldots + C_nG_n}{C_1 + C_2 + \ldots\ldots + C_n}$$

$$CGPA = \frac{\sum_i C_i \times G_i}{\sum_i C_i}$$

where (as per teaching scheme & syllabus):

C_i is the number of credits of subject i,

G_i is the Grade Point for the subject I and i = 1 to n,

n = number of subjects in a course of all the semesters up to which CGPA is computed

Grading Table:

Table-A
Applicable for B.Arch., FIRE Courses (BBA, B.Com, MBA), & PhD. Course Work

Academic Performance	Grade	Grade Point	Marks Range (in %)
Outstanding	O	10	90≤ x ≤100
Excellent	A+	9	80≤ x <90
Very Good	A	8	70≤ x <80
Good	B+	7	60≤ x <70
Above Average	B	6	50≤ x <60
Fail	F	0	x <50

Table-B
Applicable for All Courses except Table-A

Academic Performance	Grade	Grade Point	Marks Range (in %)
Outstanding	O	10	90≤ x ≤100
Excellent	A+	9	80≤ x <90
Very Good	A	8	70≤ x <80
Good	B+	7	60≤ x <70
Above Average	B	6	50≤ x <60
Average	C	5	40≤ x <50

Absent	Ab	0	Absent

Pass*	P	4	35≤ x <40
Fail	F	0	x <35
Absent	Ab	0	Absent

*** Not applicable for master programs**

CGPA to percentage conversion rule:

Equivalent % of Marks in the Program = *CGPA* *10

Award of Class

CGPA	Percentage	Equivalent Division
7.50 ≤ CGPA	75% or more	First Division with Distinction
6.00 ≤ CGPA < 7.50	60% ≤ x <75%	First Division
5.00 ≤ CGPA < 6.00	50% ≤ x <60%	Second Division
4.00 ≤ CGPA < 5.00	40% ≤ x < 50%	Pass Class

Guidelines for Massive Open Online Courses (MOOCs)

(Session 2023-24)

Poornima University, in its never ending endeavor to equip students with best-of-class learning and knowledge, has undertaken to include MOOC courses as part of its credit scheme from session 2023-24 onwards. The objective behind this is to enable students to study courses designed by the best teachers in the country and to scale their knowledge base with the rest of learners from the nation. The MOOCs which are included under this scheme is can be chosen from SWAYAM-NPTEL.

1. Introduction of MOOCs: SWAYAM-NPTEL

About SWAYAM-NPTEL

NPTEL (National Programme on Technology Enhanced Learning), is a joint venture of the IITs and IISc, funded by the Ministry of Education (MoE) Government of India, and was launched in 2003. Initially started as a project to take quality education to all corners of the country, NPTEL now offers close to 600+ courses for certification every semester in about 22 disciplines.

Some highlights:

- Largest online repository in the world of courses in engineering, basic sciences and selected humanities and management subjects
- YouTube channel for NPTEL – most subscribed educational channel, 1.3 billion views and 40+ lakhs subscribers
- More than 56000 hours of video content, transcribed and subtitled
- Most accessed library of peer-reviewed educational content in the world
- Translation of more than 12000 hrs of English transcripts in regional Indian languages

NPTEL Online Certification:

The objective of enabling students obtain certificates for courses is to make students employable in the industry or pursue a suitable higher education programme. Through an online portal, 4, 8, or 12-week online courses, typically on topics relevant to students in all years of higher education along with basic core courses in sciences and humanities with exposure to relevant tools and technologies, are being offered. Enrolment to and learning from these courses is free. Following these online courses, an in-person, proctored certification exam is conducted and a certificate is provided through the participating institutions and industry, as applicable.

Some statistics regarding the open online courses since March 2014 till Dec 2021

Completed courses: 3496;

Enrollments across courses: 1.58 CRORE +

Number of exam registrations: 15.1 LAKH +

All the statistics pertaining to completed courses are available at https://beta.nptel.ac.in/courses. All courses are completely free to enroll and learn from. The certification exam is optional and comes at a fee of Rs 1000/course exam.

2. MOOCs at Poornima University:

MOOCs envelops best in class teaching - learning processes along with meeting the requirements of various courses in terms of quality of teaching and evaluation system. To promote the MOOCs among students of Poornima University, it is decided to consider the credits earned through MOOCs.

(a) MOOCs as Credit Courses

(For this document, only those MOOCs will be considered which are available only on NPTEL platforms)

- Credit and Non-credit SWAYAM-NPTEL MOOCs can be opted by anyone, anytime, anywhere and in any language. However, prior-permission of the University Authorities is mandatory if the credits are to be transferred to regular degree.
- As Open Elective (for batches entered till 2022) / Multidisciplinary Courses (for batches admitted from 2023-24 onwards): Open Elective (for batches entered till 2022) courses were available at University level in offline mode till 2022-23 for which relevant booklets were published. From session 2023-24, Multidisciplinary Courses are introduces in lieu of open elective courses as per NEP 2020. These courses carries 02 credits. These category/type of courses (similar/different) are available as MOOC courses on SWAYAM-NPTEL platform which are being introduced from session 2023-24 onwards for all the students. The respective Deans / HODs shall provide all the information to all the students pertaining to MOOCs as per details given below:
    1. Deans / HODs shall prepare a list of up to 10 appropriate MOOC courses (From NPTEL Only) of Minimum 02/03 credits each, well in advance (at-least 15 days prior to commencement of semester) and take approval from the Office of Dean, Academics / Pro-President, PU.
    2. After approval, the respective Deans / HODs shall circulate a notice to all their respective students so that they can select any one course from the list, the credits (only 02) of which will be counted against Open Elective/ Multidisciplinary courses pertaining to that particular semester.
    3. The tutor of the class shall monitor the progress (assignments, feedback, any problem etc.) on weekly basis and report to Head/Dean and provide the academic support to students as per requirement.

(b) Important points related to MOOCs at Poornima University

- Only one MOOC shall be allowed in a particular semester for the purpose of credit transfer in the beginning.
- No attendance will be taken for MOOC courses.
- The method of assessments of MOOC such as assignments and examination are completely associated with that particular MOOC and no internal exam (IE component) will be conducted by the department as well as by the Examination Cell.
- The respective Dean / HOD must submit the detail of course i.e., code, name and credit of MOOC opted against that particular course in particular semester attached with highlighting in the related examination scheme of syllabus of that semester signed by BOS Convener / HoD and Dean of Faculty to the office of Pro-President before commencement of the classes.
- The center of examination for MOOCs will be finalized by SWAYAM-NPTEL. All the responsibility related to registration for MOOCs, timely submission of assignments, examinations etc. will be borne by the students only.
- NPTEL will award a certificate to all the students passing the examination.
- The list of registered students in MOOC along with name of course will be submitted to the Examination Cell by the Deans / HoDs before commencement of the classes.
- An ESE Exam of each said MOOC course will also be conducted by the University as per University norms.
- The award of marks/grading will be computed as given below:

Award of marks/grading	Remarks
1. 20% weightage taken from MOOC Certificate +80% weightage taken from ESE Exam of Poornima University **OR** 2. 100% of weightage taken from MOOC Certificate Note: The Higher Marks/Grades of the above two will be considered	The Certificate of MOOC to be Submitted as per date notified by COE, Poornima University

- Any student who would not be able to clear/pass the said course, will be required to appear as a back exam candidate of the University as per PU norms. Students who have not passed the MOOC exam are required to register and participate in the next semester for either the same subject or a similar subject (Ensuring at least 60% of the syllabus matches with the back subject and also approved by respective Dean) offered through NPTEL.
- The scorecard and related certificate of MOOC along with a consolidated list of students with marks of assignment and final exam will be submitted to the examination cell by the concerned Dean / HOD for further process. It is also recommended that alteration/changes/scaling in marks obtained by the students in any MOOC will not be considered.
- The exam registration fee of MOOC up to Max. INR 1000/- will be reimbursed to the student only after successful completion of the course in first attempt and submission of the fee receipt, score-card and certificate of the MOOC to the concerned department within stipulated time after declaration of the results.
- There will be no provision of re-evaluation of MOOC.

NOTE: This is to be noted that the procedure for getting approval from BOS, Faculty Board, Academic Council and BoM is to be followed as per regular process.

Attached Items:

Ability Enhancement Courses	Annexure-1
Value Added Course Booklet	Annexure-2

M.DES ID
SCHEME & SYLLABUS
BATCH: 2025-27

POORNIMA UNIVERSITY, JAIPUR

Faculty of Computer Science and Engineering

Name of Program : M.Des ID **Total Duration: 2 years** **Credits:24**

Teaching Scheme for Batch 2025-27

Semester-I

Course Code	Name of Course	Teaching Scheme			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
A	**Major (Core Courses)**							
A.1	**Theory**							
25MIDCID1101	Art and Crafts in Design	2	-	-	**40**	**60**	**100**	**2**
25MIDCID1102	Theory of Aesthetic Design	2	-	-	**40**	**60**	**100**	**2**
25MIDCID1103	Interior Design History	2	-	-	**40**	**60**	**100**	**2**
25MIDCID1104	Interior Environment	2	-	-	**40**	**60**	**100**	**2**
A.2	**Practical**							
25MIDCID1201	Exploring Space & Color in Design	1	-	6	**60**	**40**	**100**	**4**
25MIDCID1202	Interior Design Studio-I	1	-	8	**60**	**40**	**100**	**9**
25MIDCID1203	Advanced Computer Application	0	-	6	**60**	**40**	**100**	**3**
B	**Minor Stream Courses / Department Electives**							
B.1	**Theory**							
B.2	**Practical**							
	Nil	-	-	-	-	-	-	
C	**Multidisciplinary Courses**							
	Nil	-	-	-	-	-	-	-
D	**Ability Enhancement Courses (AEC)**							
E	**Skill Enhancement Courses (SEC)**							
F	**Value Added Courses (VAC)**							
	Nil	-	-	-	-	-	-	-
G	**Summer Internship / Research Project / Dissertation**							
Total		**10**	**0**	**20**				
Total Teaching Hours		**30**						**24**

POORNIMA UNIVERSITY, JAIPUR

Faculty of Computer Science and Engineering

Name of Program : M.Des ID **Duration: 2 years** **Credits: 24**

Teaching Scheme for Batch 2025-27

Semester-II

Course Code	Name of Course	Teaching Scheme			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
A	**Major (Core Courses)**							
A.1	**Theory**							
25MIDCID2101	Advanced Interior Materials & Construction Technology	2	-	-	**40**	**60**	**100**	**2**
25MIDCID2102	Advanced Interior Design Services	2	-	-	**40**	**60**	**100**	**2**
25MIDCID2103	Sustainability in Interiors	2	-	-	**40**	**60**	**100**	**2**
25MIDCID2104	Advanced Interior Furnishings	2	-	-	**40**	**60**	**100**	**2**
A.2	**Practical**							
25MIDCID2201	Interior Design Studio-II	1	-	8	**60**	**40**	**100**	**9**
25MIDCID2202	Furniture Design Studio	1	1	4	**60**	**40**	**100**	**4**
B	**Minor Stream Courses / Department Electives**							
B.1	**Theory**							
B.2	**Practical**							
25MIDEID2201	Product Design	1	-	4	**60**	**40**	**100**	**3**
25MIDEID2202	Landscape Design							
C	**Multidisciplinary Courses**							
D	**Ability Enhancement Courses (AEC)**							
E	**Skill Enhancement Courses (SEC)**							
F	**Value Added Courses (VAC)**							
	Nil	**-**	-	-	-	-	-	-
G	**Summer Internship / Research Project / Dissertation**							
Total		**11**	**-**	**18**				
Total Teaching Hours		**30**						**24**

POORNIMA UNIVERSITY, JAIPUR

Faculty of Computer Science and Engineering

Name of Program : M.Des ID **Duration: 2 years** **Credits: 18**

Teaching Scheme for Batch 2025-27

Semester-III

Course Code	Name of Course	Teaching Scheme			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
A.	**Major (Core Courses)**							
A.1	**Theory**							
25MIDCID3101	Project Management	2	-	0	**40**	**60**	**100**	**2**
A.2	**Practical**							
25MIDCID3201	Interior Design Studio-III	1	-	8	**60**	**40**	**100**	**9**
B.	**Minor Stream Courses / Department Electives**							
B.1	**Theory**							
B.2	**Practical**							
C	**Multidisciplinary Courses**							
D	**Ability Enhancement Courses (AEC)**							
E	**Skill Enhancement Courses (SEC)**							
F	**Value Added Courses (VAC)**							
G	**Summer Internship / Research Project / Dissertation**							
25MIDCID3301	Dissertation (research based)	-	-	8	**60**	**40**	**100**	**4**
25MIDCID3501	Practical Training	-	-	6	**60**	**40**	**100**	**3**
Total		**03**	**0**	**22**				
Total Teaching Hours		**25**						**18**

POORNIMA UNIVERSITY, JAIPUR

Faculty of Computer Science and Engineering

Name of Program : M.Des ID **Duration: 2 years** **Credits: 12**

Teaching Scheme for Batch 2025-27

Semester-IV

Course Code	Name of Course	Teaching Scheme			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
A	**Major (Core Courses)**							
A.1	**Theory**							
	NIL							
A.2	**Practical**							
B	**Minor Stream Courses / Department Electives**							
B.1	**Theory**							
	NIL							
B.2	**Practical**							
	NIL							
C	**Multidisciplinary Courses**							
	NIL							
D	**Ability Enhancement Courses (AEC)**							
	NIL							
E	**Skill Enhancement Courses (SEC)**							
F	**Value Added Courses (VAC)**							
G	**Summer Internship / Research Project / Dissertation**							
25MIDCID4301	Thesis Project	2	-	10	60	40	100	**12**
Total		**02**	**0**	**10**	**-**	**-**	**-**	
Total Teaching Hours		**12**						**12**

I SEMESTER

25MIDCID1101 ART and CRAFTS IN DESIGN 2 Credits [LTP: 2-0-0]

A. COURSE OUTCOMES:

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Develop** theoretical information on History of crafts in India.	L2	PO3, PO5	PSO3
CO – 02	**Examine** characteristics, properties and implementation of Clay, Glass and ceramics in Interior Design.	L2	PO1, PO3, PO7	-
CO – 03	**Analyze** study and implementation of Wood craft of India in Modern era.	L4	PO2`	PSO2
CO – 04	**Reviewing** the metal craft of India in Modern era.	L4	PO2, PO10	PSO1, PSO3
CO – 05	**Evaluate** crafts as a creative base for current Interior Design practices.	L3	PO3, PO4	PSO3

B. MAPPING MATRIX OF CO,PO, & PSO

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO100	PO 11	PO12	PSO 1	PSO 2	PSO 3
CO 1	-	-	2	-	1	-	-	-	-	-	-	-	-	-	1
CO 2	1	-	2	-	-	-	1	-	-	-	-	-	-	-	-
CO 3	-	3	-	-	2	-	-	-	-	-	-	-	-	1	-
CO 4	-	3	-	-	-	-	-	-	-	1	-	-	1	-	2
CO 5	-	-	2	1	-	-	-	-	-	-	-	-	-	-	1
WT. AVG	**1.00**	**3.00**	**2.00**	**1.00**	**1.50**		**1.00**			**1.00**			**1.00**	**1.00**	**1.33**

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1.	Understanding Indian Art and Craft Heritage	**4**
2.	Clay, Glass and Ceramic Arts in Design	**5**
3.	Wood, Bamboo, and Natural Materials	**5**
4.	Metal Crafts in Art and Design	**5**
5.	Contemporary Craft Practices and Artistic Expression	**5**

D. DETAILED SYLLABUS

UNIT	UNIT DETAILS
1.	Understanding Indian Art and Craft Heritage
	● Introduction to the history and evolution of traditional Indian crafts ● Overview of craft forms in clay, glass, ceramics, wood, and metal ● Role of indigenous art forms in shaping Indian design identity
2.	Clay, Glass and Ceramic Arts in Design
	● Aesthetic and functional properties of clay, glass, and ceramics ● Techniques, tools, and processes involved in craft-based creation ● Contemporary application of these materials in product and spatial design
3	Wood, Bamboo, and Natural Materials
	● Exploration of woodcraft in India — regional styles and traditional practices ● Application of wood in contemporary furniture and product design ● Bamboo and cane as sustainable craft materials for accessories and lifestyle products
4	Metal Crafts in Art and Design
	● History and significance of Indian metal crafts — brass, copper, iron, and silver ● Craftsmanship techniques: casting, engraving, embossing, etc. ● Integration of metal crafts into modern design narratives — interiors, decor, and products
5	Contemporary Craft Practices and Artistic Expression
	● Study of material, form, and process in craft-based design ● Exploring cultural narratives and traditional aesthetics in modern contexts ● Postmodern and experimental approaches to craft in design ● Adaptation of traditional crafts for urban lifestyle and global markets

RECOMMENDED STUDY MATERIAL

Sr	Book	Author	Edition	Publication
1.	Bamboo and Cane Crafts of Northeast India	MP Ranjan, NilamIyer, Ghanshyam Pandya		NID
2.	The Art and craft of India and Ceylon	Ananda K. Coomaraswamy	1913	LONDON 6-EDINBURGH
3.	The Art and craft of India and Pakistan	Shanti Swarup		Treasure house of books
Important Weblinks				
1.	https://nptel.ac.in/courses/107104078			
2.	https://nptel.ac.in/courses/124107006			
3.	https://books.google.co.in/books?hl=en&lr=&id=m19alHeSKVwC&oi=fnd&pg=PR7&dq=CRAFTS+IN+DESIGN+book&ots=nsoxi8KYs8&sig=OEjX1KcFgwJfB8bCS55xWebJRLM&redir_esc=y#v=onepage&q=CRAFTS%20IN%20DESIGN%20book&f=false			

25MIDCID1102 THEORY OF AESTHETIC DESIGN 2 Credits [LTP: 2-0-0]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Execute** and analyze expression in aesthetic theory	L3	PO3, PO5, PO8, PO11	PSO1
CO – 02	**Develop** theoretical information on the role of Aesthetic experience in reference to product and economy and consumers response.	L5	PO3, PO5, PO9	PSO3
CO – 03	**Integrating** the human Centre design in product and interior Design.	L4	PO2, PO3, PO6	PSO3
CO – 04	**Assessing** interaction of Design variables and Aesthetic properties.	L3	PO1, PO3, PO7, PO10	PSO1
CO – 05	**Evaluate** Design research and Aesthetic Design process.	L2	PO2, PO4, PO8, PO11	PSO2

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	3	-	2	-	-	1	-	-	1	-	1	-	-
CO2	-	-	3	-	2	-	-	-	1	-	-	-	-	-	1
CO3	-	1	3	-	-	1	-	-	-	-	-	-	-	-	1
CO4	1	-	3	-	-	-	1	-	-	1	-	-	1	-	-
CO5	-	2	-	1	-	-	-	1	-	-	2	-	-	1	-
WT. AVG	1.00	1.50	3.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.50		1.00	1.00	1.00

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Expression in Aesthetic theory	5
2.	The world of Design	5
3.	Human centric Design	5
4.	Aesthetic as the language of Design	4
5.	Aesthetic Design process	5

D. DETAILED SYLLABUS

UNIT	UNIT DETAILS
1	**Expression in Aesthetic theory**
	● Basic Aesthetic theories like Fine Art theory and Futuristic theory. ● Theory of Urban Aesthetics. ● Aesthetic intention in product design & Vital Aesthetics
2	**The world of Design**
	● Role of Aesthetic experience with the creative product in creative economy. Consumer response to designed products. ● Market Driven form ● Methodology Vs designer
3	**Human centric Design**
	● Introduction to human centric design, theories, Concept, Semantic and aesthetic functions in design ● Co-Designing for families
4	**Aesthetic as the language of Design**
	● Interaction of design variables and aesthetic properties. Empathy and Aesthetics ● Empathy or empathetic design
5	**Aesthetic Design process**
	● Design research and Aesthetic design process ● Aesthetics, functional and manufacturing issues in design of modular products. ● Integrated design

E. RECOMMENDED STUDY MATERIAL:

S.N.	Book	Author	Edition	Publication
1	Urban Aesthetics: Theory and Application Of Physical Design Control Within The Urban Renewal Program	Kent Irwin		
Important Web Links				
1.	https://nptel.ac.in/courses/107104078			
2.	https://books.google.co.in/books?hl=en&lr=&id=DXcRDAAAQBAJ&oi=fnd&pg=PP1&dq=THEORY+OF+AESTHETIC+DESIGN+book&ots=hGg3ZXgzrM&sig=TmiAaKNCA2EMh96gucxrSGhCcBc&redir_esc=y#v=onepage&q=THEORY%20OF%20AESTHETIC%20DESIGN%20book&f=false			

25MIDCID1103 INTERIOR DESIGN HISTORY 2 Credits [LTP: 2-0-0]

A. OUTCOME OF THE COURSE

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Summarizing** students about different interior design styles, their evolution & History.	L6	PO1, PO3	-
CO – 02	**Determining** 4th-15th century interior styles that includes Dark Age Styles, Byzantine & other Interior Styles.	L5	PO4, PO9, PO12	PSO3
CO – 03	**Appraising** & gaining knowledge about 8th-11th century interior styles	L6	PO4, PO7, PO11	PSO2
CO – 04	**Assessing** the knowledge about Gothic Style, Gothic furniture & décor	L3	PO2, PO9	PSO1
CO – 05	**Composing** all the learned knowledge & apply the above learning's as a concept into a project.	L4	PO3, PO7	-

.

B. MAPPING MATRIX OF CO, PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	3	-	1	-	-	1	-	-	2	-	-	2
CO3	1	-	-	3	-	-	1	-	-	-	1	-	-	2	-
CO4	-	2	-	-	-	-	-	-	1	-	-	-	1	-	-
CO5	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-
WT. AVG	1.00	2.00	2.00	3.00		1.00	1.00		1.00		1.00	2.00	1.00	2.00	2.00

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to Interior Design History	5
2	4^{th}-15^{th} Century Interior Styles	5
3	8^{th} – 11^{th} Century Interior Styles	4
4	Gothic Style	6
5	Design Exercise	4

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Introduction to Interior Design History**
	• Introduction to Interior Design History. • Evolution of interior design history. • Interior Design History timeline
2.	**4^{th}-15^{th} Century Interior Styles**
	• Introduction to the unit. • Dark Age Styles • Byzantine Interior Styles (houses & furniture) • Case Examples. • Summary
3.	**8^{th} – 11^{th} Century Interior Styles**
	• Introduction to the Unit • Carolingian furniture: revival of Roman Style • Viking Furniture • Case Examples. • Summary
4.	**Gothic Style**
	• Introduction to the Unit • Gothic furniture & décor • Case examples of Gothic style
5.	**Design Exercise**
	• Take a small scale project by applying the above learnings & creating your own innovative solutions.

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	History of Interior Design and Furniture, from Ancient Egypt to nineteenth century Europe	Julie .L. Rabun		
2.	The Atlas of early man by Hawkes	Jacquetta		
3.	Furniture: A Concise History (World of Art)	Edward Lucie Smith		Thames and Hudson
4.	History of Interior Design and Furniture	Robbie. G. Blakemore		
Important Web Links				
1.	https://nptel.ac.in/courses/124107006			
2.	https://design.lsu.edu/wp-content/uploads/2020/12/Lessons_joid.12086.pdf			

25MIDCID1104 INTERIOR ENVIRONMENT 2 Credits [LTP: 2-0-0]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Relating** the evolution of Environmental studies with respect to acquiring environmental control in interiors.	L5	PO3	-
CO – 02	**Determining** the various vernacular building traditions, their impact and role of social, cultural and technological contest	L6	PO1, PO5, PO8, PO12	-
CO – 03	**Attributing** the explorations such as Environment centered design which compresses - Human centered design, Technology interface in the contemporary practice.	L6	PO3, PO7, PO10	PSO3
CO – 04	**Reflecting** the elements of Interior Landscaping and its impact on Interior environment	L4	PO1, PO9	-
CO – 05	**Building** an environment centric design that explores the real life challenges in implementing ECD.	L3	PO4, PO12	PSO2

B. MAPPING MATRIX OF CO, PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO2	2	-	-	-	2	-	-	1	-	-	-	1	-	-	-
CO3	-	-	3	-	-	-	1	-	-	1	-	-	-	-	1
CO4	2	-	-	-	-	-	-	-	1		-	-	-	-	-
CO5	-	-	-	2	-	-	-	-	-	-	-	1	-	1	-
WT. AVG	2.00		3.00	2.00	2.00		1.00	1.00	1.00	1.00		1.00		1.00	1.00

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to Interior Environment	4
2	Vernacular Building Traditions	4
3	Energy saving device & systems	5
4	Interior Landscaping	5
5	Design Exercise	6

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Introduction**
	● Introduction to Interior Environment. ● Role of Environment in Interior Design. ● Evolution of Environmental studies in design, ● Environmental Design issues. ● Concept of sustainability and sustainable development. ● Ecosystem: Structure and function of ecosystem ● Energy flow in an ecosystem: food chains, food webs and ecological succession. ● Biodiversity and its conservation: genetic, species and ecosystem diversity, Bio geographical classifications, hot-spots of biodiversity, threats to biodiversity, Conservation of biodiversity ● Case studies of the innovative ways and means of acquiring environmental control in interiors.
2.	**Environmental Impact of Vernacular Building Traditions**
	● Vernacular building tradition - Meaning & theories. ● Determinants of vernacular building tradition: Role of social, cultural, political, economic symbolic, climatic, technological contest in creation of form. ● Impact of Vernacular Building traditions on environment. ● Illustrated case studies of vernacular settlements/building typology ● Historical case Studies, Mud/ Bamboo Architecture.
	● Principles of Organic Architecture, earth sheltered buildings, water bodies, Energy Efficient Building Design, green architecture, ● Bionic Architecture along with case studies of various contemporary designs done with principles of sustainability ● Group Assignment: Case study of Passive & Active Design.
3.	**Energy saving device & systems**
	● Energy saving lighting systems, smart windows, active solar & building integrated photovoltaic system, energy efficient HVAC ● (Heating, Ventilation and Air-Conditioning) systems, energy storage systems
4.	**Interior Landscaping**
	● Interior Landscaping and its impact on interior environment. ● Enhance a space using Interior Landscaping. ● Elements of Interior Landscape.
5.	**Design Exercise**
	● Create an Environment centric design for a small scale project by applying the above learnings & creating your own innovative solutions.

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Environmental Studies	Benny Joseph	Latest	Tata McgrawHill
2.	Vernacular traditions: contemporary architecture	Tipnis, Aishwarya	2012	TERI publications, India
3.	Traditional Buildings of India	Ilay Cooper, Barry Dawson		
4.	Principles of Environmental Science and Engineering	P. Venugoplan Rao	Latest	Prentice Hall of India.

Important Web Links	
1.	**http://www.energy.gov**
2.	**https://nptel.ac.in/courses/122102006/**

25MIDCID1201 EXPLORING SPACE & COLOR IN DESIGN 4 Credits [LTP: 0-1-6]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Interpreting** the elements and principles of Design and demonstrate quick sketching of objects	L5	PO1, PO3, PO6, PO10	PSO2
CO – 02	**Integrating** the study of nature and execute techniques of sketching for vegetation and living beings	L5	PO2, PO8, PO12	-
CO – 03	**Illustrating** the use of multiple objects to multiple forms and develop imaginative thinking of objects.	L5	PO3	PSO1
CO – 04	**Reflecting** the visual projection of ideas and use of color in Design.	L4	PO2, PO6, PO10	-
CO – 05	**Composing** Design communication through illustration to express evolution of form.	L3	PO3, PO5, PO9	PSO2

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	2	-	-	1	-	-	-	1	-	-	-	1	-
CO2	-	3	-	-	-	-	-	2	-	-	-	1	-	-	-
CO3	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-
CO4	-	2	-	-	-	2	-	-	-	1	-	-	-	-	-
CO5	-	-	3	-	2	-	-	-	1	-	-	-	-	1	-
WT. AVG	1.00	2.50	2.33		2.00	1.50		2.00	1.00	1.00		1.00	1.00	1.00	

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Quick Sketching: Objects	16
2	Quick Sketching: Nature	16
3	Sketching implementation	18
4	Design Communication Through Illustration	16
5	Visual projection of Ideas and use of Color in design.	18

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Quick Sketching: Objects**
	● Introduction to elements and principles of design ● Quick sketching of objects
2.	**Quick Sketching: Nature**
	● Observation: Study of Nature ● Quick sketching Techniques for Vegetation and Living Beings
3.	**Sketching implementation**
	● Use of multiple objects to create multiple forms. ● Imaginative thinking of an actual object.
4.	**Design Communication Through Illustration**
	● Stage wise communication of design using illustration to express evolution of form. ● Visual projection of Ideas and use of color in design ● Color theory
5.	**Visual projection of Ideas and use of color in design.**
	● Color Theory and Practice ● Visual Projection of Ideas

E.

F. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1	How to Draw: Drawing and Sketching Objects and Environments	Scott Robertson	2013	Design Studio Press
2	Sketching- Product Design Presentation	Koos Eissen & Rose lienSteur	2014	Thames & Hudson
3	Design Drawing	Francis D K Ching	2012	Jhon Wiley & Sons, Inc.
Important Web Links				
1.	https://nptel.ac.in/courses/124107006			

25MIDCID1202 INTERIOR DESIGN STUDIO-I 6 Credits [LTP: 0-2-4]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Expressing** critical thinking as they identify, analyze, and solve interior architecture and design problems through completion of interior design studio projects.	L3	PO2, PO3	PSO3
CO – 02	**Implementing** creative and critical thinking to solve interior environment problems from a human-centered approach with related examples and apply this knowledge to design solutions.	L2	PO3, PO11	PSO1
CO – 03	**Categorizing** social responsibility by designing sustainable interior environments that support indoor environmental quality and improve the quality of life for occupants.	L2	PO3, PO8	PSO3
CO – 04	**Reviewing** the different technical drawings to understand, analyze the potential for appropriate use and work in the specialty of reuse of such spaces.	L3	PO3, PO5	-
CO – 05	**Facilitating** the 3D models & critical role of materials and methods for the design and their construction.	L1	PO3, PO5	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	3	1	-	-	-	-	-	-	-	-	-	-	-	2
CO2	-	-	3	-	-	-	-	-	-	-	2	-	1	-	-
CO3	-	-	2	-	-	-	-	3	-	-	-	-	-	-	1
CO4	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-
CO5	-	-	2	-	3	-	-	-	-	-	-	-	-	-	-
WT. AVG		**3.00**	**2.20**		**2.50**			**3.00**			**2.00**		**1.00**		**1.50**

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to design Project	24
2	Case Studies	24
3	Design Concept	24
4	Technical drawings	24
5	Model Making/ 3D development	24

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Introduction to Interior Design**
	● To introduce to students, the design of a building with complexities related to luxury interiors, services, structures and site planning ● Introduction to interior design, Brain Storming, Idea Generation Understanding users, defining their needs and defining the problem to solve Design, Definitions and Design Spectrum ● Methods for creating creative concepts - exploration of alternative solutions
2.	**Case Studies**
	● Introduction of unit ● Choose & select relevant case examples related to your project ● Understanding the principles and standards of residence and also the anthropometry and ergonomics inside a given space ● Study and analyze an existing case study w.r.t. the design project
3.	**Design Concept**
	● Conceptual Layouts ● Developing concepts for the design project
	● To help students evolve their design by understanding relationship between forms, function and space ● Explain your design idea with the help of sketches
4.	**Technical drawings**
	● Plan, Sectional Elevation, furniture layout. ● Detailed interior drawings. ● Make appropriate furniture details.
5.	**Model Making/ 3D development**
	● Models for the Design Project ● Rendered 3D interior views

E. RECOMMENDED STUDY MATERIAL

S. N.	Book	Author	Edition	Publication
1.	The Fundamentals of Interior Design	S. Dodsworth, S. Anderson	2nd	
2.	Residential Interior Design: A Guide to Planning Space	Maureen Mitton	3rd	
3.	Interior Design Material and Specification	Lisa Godsey	1st	
Important Web Links				
1.	https://www.coursera.org/learn/making-architecture			

25MIDCID1203	ADVANCED COMPUTER APPLICATION	4 Credits [LTP: 0-1-6]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Interpreting** the various tools and softwares available in market useful for Designing products	L6	PO3, PO5	PSO3
CO – 02	**Examining** the commands and tools of software in design	L5	PO1, PO3, PO7	-
CO – 03	**Organizing** the outcome from software usage in design	L4	PO2, PO5	PSO2
CO – 04	**Validating** the usage and properties of software & tools in product designing	L5	PO2, PO10	PSO1, PSO3
CO – 05	**Building** a prototype in 3D and 2D form using the softwares learnt in practical application	L1	PO3, PO4	PSO3

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	2	-	1	-	-	-	-	-	-	-	-	-	1
CO2	1	-	2	-	-	-	1	-	-	-	-	-	-	-	-
CO3	-	3	-	-	2	-	-	-	-	-	-	-	-	1	-
CO4	-	3	-	-	-	-	-	-	-	1	-	-	1	-	2
CO5	-	-	2	1	-	-	-	-	-	-	-	-	-	-	1
WT. AVG	1.00	3.00	2.00	1.00	1.50		1.00			1.00			1.00	1.00	1.33

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Advanced 2D CAD	16
2	3D CAD	20
3	Computers for Presentation	20
4	Sketch up/ Lumion/ Fusion 360	12
5	Design Exercise	16

D. DETAILED SYLLABUS

Unit	Contents
1.	Advanced 2D CAD
	● Create suitable text styles and dimensions styles and insert text and various dimensions in CAD drawings. ● Edit variables in dimension style and update existing dimensions in CAD drawings. ● Create layers with suitable names, colors and line types for product design drawings. ● Demonstrate an ability to use and purposefully manipulate external reference files and understand the different insertion methods for external reference files. ● Manipulate and control external reference file layers. ● Reload and bind an external reference. ● Switch between drawing area and layout area and demonstrate an ability to print drawings to an appropriate scale from both model area and layout area. ● Demonstrate an ability to manipulate layers within different viewports. ● Demonstrate an ability to use viewports to print different parts of drawings at different scales.
2.	3D CAD
	● Demonstrate an understanding of the UCS by drawing in different planes. ● Create 3D surfaces to include revolved, tabulated, edge and ruled surface. ● Create 3D solids to include box, sphere, cylinder, cone, wedge, torus, extrusion and revolved solid. ● Manipulate solids using union, subtract, intersection, slice and section. ● Create different views of 3D objects to include isometric views, plan view
3.	Computers for Presentation
	● Create presentation which presents messages in a crisp and concise manner. ● Upload pictures, images and objects to provide features that can be edited. ● Re-positioning and grouping of animations.
	● Using multimedia functions to create short animation. ● Using presentation with sound and animated features. ● Designing layouts regarding audience, demographics and knowledge. ● Editing and customizing presentations, using charts and graphics. ● Creating macros and managing presentations. ● Enhancing and customizing presentation, working with embedded and linked objects and hyperlinks.
4.	**Sketch up/ Lumion/ Fusion 360**
	● Create suitable 3D models using these software. ● Representing your product.
5.	**Design Exercise**
	● Models for the Design Project

E. RECOMMENDED STUDY MATERIAL

S. N.	Book	Author	Edition	Publication
1.	Modeling with SketchUp for 3D Printing	Bonnie Roskes		
2.	Mastering Autocad 2021 & Autocad Lt 2021	Brian C. Benton (Author), Georg e Omura	2nd	Sybex
Important Web Links				
1.	https://www.coursera.org/projects/explore-sketchup?#testimonials			

II SEMESTER

25MIDCID2101	ADVANCED INTERIOR MATERIALS & CONSTRUCTION TECHNOLOGY	2 CREDIT [LTP: 2-0-0]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Relating** the use of advanced materials and technologies in interior spaces & construction technology	L6	PO1, PO4, PO8, PO11	PSO2
CO – 02	**Implementing** the Knowledge of innovative materials and technologies, their applications in various spaces in interiors and being updated with current market trends.	L6	PO2, PO5, PO10	-
CO – 03	**Correlating** a wide range of materials and technologies with regards to Automation, Advanced lighting technologies, HVAC and thermal comfort, wall coverings, Flooring, Smart furniture, Walling and partitions	L5	PO2, PO7	PSO3
CO – 04	**Reflecting** the importance and Impact of green rating materials on environment	L3	PO3, PO2, PO12	PSO2
CO – 05	**Composing** the Application of advanced materials through different case studies.	L2	PO1, PO8	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	2	-	-	-	1	-	-	1	-	-	1	-
CO2	-	3	-	-	2	-	-	-	-	1	-	-	-	-	-
CO3	-	3	-	-	-	-	1	-	-	-	-	-	-	-	1
CO4	-	-	2	-	2	-	-	-	-	-	-	1	-	1	-
CO5	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
WT. AVG	1.00	3.00	2.00	2.00	2.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction	4
2	Designing interiors spaces to accommodate future uses	5
3	Trends in global and Indian market	5
4	Impact on environment - Green rating for materials	4
5	View and Presentations	6

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Introduction**
	● Understand the advanced materials and technologies available. ● The need and importance of advanced materials in interior design.
2.	**Designing interiors spaces to accommodate future uses**
	● Design multipurpose spaces that allow for adaptability, both for future uses and for several uses by the same occupants. · ● Use modular design to foster adaptability. ● Using modular or systems furniture, which allows for ongoing reconfiguration of space without major disruption to the permanent interior layout and electrical/mechanical distribution systems. ● Exploring a wide range of materials and technologies with regards to Automation, Advanced lighting technologies, HVAC and thermal comfort, wall coverings, Flooring, Smart furniture, Walling and partitions
3.	**Trends in global and Indian market**
	● Interior products with recycled content trending globally ● Renewable materials like- Wheat straw, Corn stalks, Polylactide (PLA) (made from corn starch), Cork, Bamboo, Sunflower seed hulls, Soybeans, Wool, Linen, Silk, Ramie ● Understand physical properties and visual characteristics of the materials like- dry wall, ceiling tile, insulation, carpet and carpet tile, resilient flooring, metal components, furniture, fabrics, tile, wall covering, and composite wood-based products. Many are made from sawmill waste, a
	pre-consumer recycled material. ● Application, installation, maintenance and cost
4.	**Impact on environment - Green rating for materials**
	● Understanding the impact of advanced materials on environment. ● The importance and need of green rating for materials.
5.	**View and Presentations**
	● Detailed study report on materials through case studies, factory visits, market studies ● Design exercise: Design a space using advanced materials

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Interior Materials and Surfaces: The Complete Guide	Helen Bowers	2005	Firefly books
2.	Material Matters: New Materials in Design	Phil Howes Zoe Laughlin (Author)	2012	Black dog press
Important Web Links				
1.	https://nptel.ac.in/courses/105106206			
2.	https://nptel.ac.in/courses/105106053			

25MIDCID2102 ADVANCED INTERIOR DESIGN SERVICES 2 Credit [LTP: 2-0-0]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Inferring** critical appreciation and understanding of basic service (Electrical/plumbing/HVAC) solutions for interior spaces.	L6	PO1, PO5, PO9	PSO2
CO – 02	**Determining** the processes involved in developing services and linkages for interior spaces and built environments.	L5	PO2, PO4, PO11	PSO3
CO – 03	**Illustrate** report and analyze the impact of services on interior spaces.	L3	PO1, PO3, PO7	PSO1, PSO2
CO – 04	**Reviewing** the different advanced services introduced in modern context	L2	PO2, PO5, PO10	PSO3
CO – 05	**Facilitating** theories for services and linkages, context, technology, current trends and strategies for services design for built environments.	L6	PO1, PO4, PO8	PSO2

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	2	-	-	-	1	-	-	-	-	1	-
CO2	-	3	-	1	-	-	-	-	-	-	2	-	-	-	3
CO3	2	-	1	-	-	-	1	-	-	-	-	-	1	2	-
CO4	-	3	-	-	2	-	-	-	-	1	-	-	-	-	3
CO5	2	-	-	1	-	-	-	1	-	-	-	-	-	2	-
WT. AVG	**1.67**	**3.00**	**1.00**	**1.00**	**2.00**		**1.00**	**1.00**	**1.00**	**1.00**	**2.00**		**1.00**	**1.67**	**3.00**

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Plumbing & Drainage System	4
2	Advanced Internal & External Plumbing & Drainage System	5
3	Electrical System	5
4	Acoustics	5
5	Service Systems	5

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Plumbing & Drainage System**
	● Introduction of unit ● Requirements of water supply to various buildings ● Introduction to Plumbing and drainage and plumbing sanitary systems ● General principles of drainage, and drainage lines. ● Basic plumbing requirements & calculations ● Conclusion and summary of the unit.
2.	**Advanced Internal & External Plumbing & Drainage System**
	● Introduction of unit ● Interior plumbing layouts - Fixtures and hardware ● Advanced HVAC systems, Plumbing and Drainage services ● Connection to out-door drainage system ● Conclusion and summary of the unit.
3.	**Electrical System**
	● Introduction of unit ● Lighting and vision, basic units, photometry and measurement, Effects of good lighting, considerations for good lighting, brightness, glare, contrast and diffusion. ● Day Light & Artificial Lighting – Advantages & disadvantages, controlling daylight – multiple glazing, orientation, window treatments ● Lighting, Design for lighting, Classification of lighting. Types of Fixtures & Fittings available in the market- Floor, table and desk, wall mounted, ceiling units, built in lighting, miscellaneous types, decorative lighting, spot lighting, task lighting, underwater lighting etc. ● General aspects of design of electrical domestic installations, power and light loads, MCB, MCCB,SFU, ELCB. ● Classification of voltages, Layout system for lighting, fans, telephones ● Conclusion and summary of the unit.
4.	**Acoustics**
	● Introduction of unit ● Physics of sound, behavior of sound in an enclosed space, Criteria for acoustic environment- location of building, geometry and shape, ● Basic understanding of echo, reverberation time, sound absorption coefficient, Noise rating curves. ● Detailed study of the calculations of reverberation time, frequency ● Noise- physiological and psychological effects, Noise control techniques and their applications, Detailed study of types of noise and noise effect on human and its surroundings ● Selection of acoustic materials, construction details and fixing. Advanced study of acoustical treatments, material specifications and study with case studies and market surveys ● Conclusion and summary of the unit.
5.	**Service Systems**

	• Lifts, pumps, air-conditioning system, computer systems, etc. pipe and plate earthing, lighting protection in buildings. • Air Conditioning, Need of Air Conditioning, Principles of air conditioning, Types of Air Conditioning

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Basic plumbing with illustrations	Massey, H.	1st ed. Carlsbad 1994	CA: Craftsman Book Co.
2.	Plumbing design and installation	Ripka, L.	third edition 2006	American Technical Publishers.
3.	Sustainable design for interior environments	Winchip, S	1st ed. 2007	New York: Fairchild.
4.	S.C Building construction	Rangawala		Charotar Publishing House
5.	Interior Design Principles and Practice	Pratap R.M	1995	Banaridas Bhanot Publishers, Jabalpur
Important Web Links				
1.	https://nptel.ac.in/courses/105102176			

25MIDCID2103 SUSTAINABILITY IN INTERIORS 2 Credit [LTP: 2-0-0]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Interpreting** the need for advanced materials and technologies	L5	PO1, PO4, PO7, PO11	PSO2
CO – 02	**Articulating** the knowledge of innovative materials and technologies, their applications in various spaces in interiors and being updated with current market trends.	L6	PO2, PO5, PO9	PSO1, PSO3
CO – 03	**Structuring** a wide range of materials and technologies with regards to Automation, Advanced lighting technologies, HVAC and thermal comfort, wall coverings, Flooring, Smart furniture, Walling and partitions	L6	PO1, PO3, PO7	PSO2
CO – 04	**Reflecting** the Impact of these materials on environment	L5	PO2, PO5, PO9, PO12	PSO3
CO – 05	**Composing** the Application of advanced materials.	L4	PO4, PO7	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	3	-	-	1	-	-	-	1	-	-	2	-
CO2	-	3	-	-	2	-	-	-	1	-	-	-	1	-	3
CO3	2	-	3	-	-	-	1	-	-	-	-	1	-	2	-
CO4	-	2	-	-	1	-	-	-	1	-	-	1	-	-	2
CO5	-	-	-	3	-	-	2	-	-	-	-	-	-	-	-
WT. AVG	2.00	2.50	3.00	3.00	1.50		1.33		1.00		1.00	1.00	1.00	2.00	2.50

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction	4
2	Sustainable concepts in Interior designing	5
3	Sustainability: Challenges and opportunities	5
4	Design, Technology and Planning for sustainability	5
5	Case study(Self study/Assignment)	5

D. DETAILED SYLLABUS

Unit	Contents
1.	**Introduction**
	● Introduction to Unit ● Energy and Global environment, Energy use and Climate change – Its impact, Types of Energy systems, ● Concept of Sustainability - Principles of conservation -synergy with nature ● Ethical- environmental degradation ● Summary & conclusion of unit
2.	**Sustainable concepts in Interior designing**
	● The Concept of Sustainable Interiors. ● Sustainable interiors designing by adopting various policies. ● Principles of Sustainable Interior Design. ● Benefits of Green Interiors ● Indoor Environment Quality (IEQ) ● Elements associated to IEQ
3.	**Sustainability: Challenges and opportunities**
	● Introduction to Unit ● Properties, Uses and Examples of -Primary, secondary and Tertiary Sustainable Materials, Principles to improve the energy efficiency - siting and vernacular design, shade, ventilation, earth shelter, thermal inertia and air lock entrances. ● Techniques of sustainable construction - technologies, methods of effectiveness, and design synthesis ● Alternative materials and construction methods: ● Use of local materials and on site growth of food, fuel and building materials
	● Summary & conclusion of unit
4.	**Design, Technology and Planning for sustainability**
	● Introduction to the unit ● Understanding the concept of ECO design ● Steps involves in Sustainable design process ● Understanding LCA process for sustainable development
5.	**Case study(Self study/Assignment)**
	● Detailed study report on the case study done of any sustainable project ● Design exercise: Design a space using sustainability parameters.

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Design for Sustainability: Green Materials and Processes	S.M. Sapuan Muhd Mansor	2021	Elsevier
2.	Green Interior Design: The Guide to Sustainable High Style	Lori Dennis,Courtney Porter		
3.	Design for Environment, Second Edition: A Guide to Sustainable Product Development	Joseph Fiksel	2009	
Important Web Links				
1.	https://nptel.ac.in/courses/105102195			
2.	https://nptel.ac.in/courses/124106157			
3.	https://nptel.ac.in/courses/124107011			

25MIDCID2104 ADVANCED INTERIOR FURNISHING 2 Credit [LTP: 2-0-0]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Expressing** the composition, construction, and finishes applied on fabrics for furnishings.	L6	PO2, PO4	PSO3
CO – 02	**Determining** the recent trends in commercial furnishings	L5	PO3, PO9	-
CO – 03	**Structuring** information on various security systems in residential & commercial buildings	L5	PO2, PO9	PSO1, PSO3
CO – 04	**Experimenting** with the various lighting features in design	L4	PO3, PO5	-
CO – 05	**Composing** various furniture fixtures and decorative ideas.	L1	PO3, PO5	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	1	-	3	-	-	-	-	-	-	-	-	-	-	1
CO2	-	-	1	-	-	-	-	-	3	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	1	-	-	-	2	-	3
CO4	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
CO5	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
WT. AVG		2.00	2.33	3.00	1.00				2.00				2.00		2.00

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Home Furnishings	4
2.	Commercial Furnishings	5
3.	Security System	5
4.	Lighting Fixtures	5
5.	Other Fixtures	5

D. DETAILED SYLLABUS

Unit	Unit Details
1.	**Home Furnishings**
	● Introduction of unit ● Develop a motif suitable for foot mat, window grill, table mat and furnishing materials. Window Treatments – Types of windows, curtains, draperies, hanging curtains, pelmets and valances, accessories, blinds, shades. Cushion, cushion covers, Slip covers, bed linens, and Table linens. ● Conclusion and summary of unit.
2.	**Commercial Furnishings**
	● Introduction of unit ● Introduction, Venetian Blinds, Modern furnishing materials, Partitions etc. ● Conclusion and summary of unit.
3.	**Security System**
	● Introduction of unit ● Introduction, Residential security systems, Commercial security Systems. ● Conclusion and summary of unit.
4.	**Lighting Fixtures**
	● Introduction of unit ● Introduction, types of light fixtures, decorative fixtures etc. ● Conclusion and summary of unit.
5.	**Other Fixtures**
	● Introduction of unit ● Furniture fixtures, Decorative etc. ● Conclusion and summary of unit.

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Inside today's home	Faulkner, R.and Faulkner	Latest	Rinebart Winston, New York
2.	Interior Design & Decoration	Sherril Whiton	Latest	Prentice Hall
3.	Introduction to home furnishings	Stepat,D.D	Latest	The macmillan company,New York
4.	The themes and Hudson manual of textile printing	Storey joyce	Latest	London
5.	Colour in interior Design	Jhon,F.P	Latest	Mc Graw Hill Company
Important Web Links				
1.	https://www.survivorlibrary.com/library/the_book_of_decorative_furniture_1911.pdf			

25MIDCID2201 INTERIOR DESIGN STUDIO – I 8 Credits [LTP: 1-0-7]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Expressing** critical thinking as they identify, analyze, and solve interior architecture and design problems through completion of interior design studio projects.	L3	PO2, PO3	PSO3
CO – 02	**Implementing** creative and critical thinking to solve interior environment problems from a human-centered approach with related examples and apply this knowledge to design solutions.	L1	PO3, PO11	PSO1
CO – 03	**Categorizing** social responsibility by designing sustainable interior environments that support indoor environmental quality and improve the quality of life for occupants.	L1	PO3, PO8	-
CO – 04	**Reviewing** the different technical drawings to understand, analyze the potential for appropriate use and work in the specialty of reuse of such spaces.	L2	PO3, PO5	–
CO – 05	**Facilitating** the 3D models & critical role of materials and methods for the design and their construction.	L1	PO3, PO5	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1	-	3	1	-	-	-	-	-	-	-	-	-	-	-	3
CO2	-	-	3	-	-	-	-	-	-	-	2	-	1	-	-
CO3	-	-	2	-	-	-	-	3	-	-	-	-	-	-	-
CO4	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-
CO5	-	-	2	-	3	-	-	-	-	-	-	-	-	-	-
WT. AVG		**3.00**	**2.20**		**2.50**			**3.00**			**2.00**		**1.00**		**3.00**

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to design Project	30
2	Case Studies	30
3	Design Concept	30
4	Technical drawings	30
5	Model Making/ 3D development	36

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Introduction to Interior Design**
	● To introduce to students, the design of a building with complexities related to luxury interiors, services, structures and site planning. ● Introduction to interior design, Brain Storming, Idea Generation Understanding users, defining their needs and defining the problem to solve Design, Definitions and Design Spectrum, ● Methods for creating creative concepts - exploration of alternative solutions
2.	**Case Studies**
	● Introduction of unit. ● Choose & select relevant case examples related to your project. ● Understanding the principles and standards of commercial spaces and also the anthropometry and ergonomics inside a given space. ● Study and analyze an existing case study w.r.t. the design project.
3.	**Design Concept**
	● Conceptual Layouts ● Developing concepts for the design project. ● To help students evolve their design by understanding relationship between forms, function and space. ● Explain your design idea with the help of sketches.
4.	**Technical drawings**
	● Plan, Sectional Elevation**,** furniture layout. ● Detailed interior drawings. ● Make appropriate furniture details.
5.	**Model Making/ 3D development**
	● Models for the Design Project ● Rendered 3D interior views

E. RECOMMENDED STUDY MATERIAL

S. N.	Book	Author	Edition	Publication
1.	The Fundamentals of Interior Design	S. Dodsworth, S. Anderson	2nd	
2.	Residential Interior Design: A Guide to Planning Space	Maureen Mitton	3rd	
3.	Interior Design Material and Specification	Lisa Godsey	1st	
Important Web Links				
1.	https://www.iiid.in/files/upload_pdf/IIID-Design-Handbook.pdf			
2.	https://bharatskills.gov.in/pdf/E_Books/IDD_Volume_II_of_II_Theory.pdf			

25MIDCID2202 FURNITURE DESIGN STUDIO 4 Credits [LTP: 2-0-4]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Predicting** the knowledge of various styles, systems and products available in the market.	L5	PO2, PO4	PSO3
CO – 02	**Examining** the knowledge of ergonomics, materials, design and working parameters in designing furniture. Develop a concept of statutory regulations appropriate to workshop and manufacturing environments.	L4	PO3, PO9	-
CO – 03	**Explaining** the impact of basic materials, techniques and finishes.	L3	PO2, PO9	PSO1, PSO3
CO – 04	**Assessing** the basic design and change in furniture drawing.	L2	PO3, PO5	-
CO – 05	**Building** critical and analytical abilities together with educational values that contribute to a lifelong learning attitude.	L1	PO3, PO5	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1	-	1	-	3	-	-	-	-	-	-	-	-	-	-	1
CO2	-	-	1	-	-	-	-	-	3	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	1	-	-	-	2	-	3
CO4	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
CO5	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
WT. AVG		**2.00**	**2.33**	**3.00**	**1.00**				**2.00**				**2.00**		**2.00**

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to Furniture Design	12
2	History of Furniture Design	14
3	Furniture Systems	14
4	Furniture Detailing	16
5	Furniture Design Exercise	16

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Introduction to Furniture Design**
	● Introduction to Furniture Design -Human factors, engineering and ergonomic considerations: ● principles of universal design and their application in furniture design, ● overview of Furniture categories, exploration of the idea of furniture, ● role of furniture in interior design, ● Design approaches in furniture design.
2.	**History of Furniture Design**
	● History of Furniture- Awareness of the relationship of design history in order to create new designs in furniture. ● An outline of the evolution of furniture from Ancient to present: Various stylistic transformations. ● Furniture designers and movements. ● Exploration of furniture in terms of human values, social conditions, technology and design criteria. ● Understanding the current design trends and the future visions in the field of furniture design.
3.	**Furniture Systems**
	● Furniture design for various context and spaces – residences, corporate, commercial etc. in terms of Seating design; Storage systems- kitchen cabinets, wardrobes, closets, book shelves, showcases, display systems etc.; multi- functional & space-saving furniture; modular approach to furniture design.
4.	**Furniture Detailing**
	● Furniture Detailing and Construction- Introduction to different materials,
	joinery details and manufacturing methods most frequently adopted in furniture design such as Injection Molding, investment casting, sheet metal work, die casting, blow- molding, vacuum - forming etc.
5.	**Furniture Design Exercise**
	● Design Problem - Exercise oriented by innovative explorations, observation and constrains, to design a furniture, by providing measured drawing – plan, elevation and detailing on full scale, supported by prototype.

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Towards Post Modernism	Collins, Michael		Michael Publication
2.	Design History a student's hand book	Conway, Haze		
3.	Design the International Movement with Indian parallel	H Kumar Vyas		
4.	Designing Furniture			Fine Woodworking
5.	Controlling design variants -: Modular product platforms			
Important Web Links				
1.	https://download.e-bookshelf.de/download/0000/6445/92/L-G-0000644592-0002338861.pdf			

25MIDEID2201 PRODUCT DESIGN 3 Credits [LTP: 1-0-4]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Comparing** about the different types of products, their functions, uses and applications and their impact on the interior and exterior space	L4	PO2, PO4	PSO3
CO – 02	**Determining** knowledge about different types products according to their types, materials, construction details and methods of application/installation	L5	PO3, PO9	-
CO – 03	**Illustrating** the understanding about finishes, colours, appearance, and symbols/codes of products and produce detailed drawings	L5	PO2, PO9	PSO1, PSO3
CO – 04	**Assessing** about the scale and construction techniques of products and learn about their construction methods	L3	PO3, PO5	-
CO – 05	**Building** about industrial products and how different furniture objects are user friendly for differently abled	L5	PO3, PO5	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	1	-	3	-	-	-	-	-	-	-	-	-	-	1
CO2	-	-	1	-	-	-	-	-	3	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	1	-	-	-	2	-	3
CO4	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
CO5	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
WT. AVG		2.00	2.33	3.00	1.00				2.00				2.00		2.00

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Introduction to Product design	12
2.	Aspects of Product Design	12
3.	Concepts Development	12
4.	Product design & Sustainability	12
5.	Product Design Exercise	12

D. DETAILED SYLLABUS

UNIT	UNIT DETAILS
1.	**Introduction to Product design**
	● An brief introduction to Product Designing ● Various elements ● History of Product Design ● Definition of Product Design, ● Understanding of Product Design ● Purpose of Product Design ● Role of Product Designers.
2.	**Aspects of Product Design**
	● Exploration of the design language, form and values from traditional and contemporary design platform. ● Visual, Auditory, Tactual, of factory human mechanisms ● Physical space and arrangement. ● Visual display, process of seeing, visual discrimination, quantitative and qualitative visual display
3.	**Concepts Development**
	● Concepts like design research, human factors, form, ergonomics, design processes, sustainable design.
	● Form, Color, Symbols, User specific criteria, Material, Technology and recyclability, Packaging. Multiple Utility oriented approach to Product Design.
4.	**Product design & Sustainability**
	● Application of materials and uses, sustainable approach towards product designing.
5.	**Product Design Exercise**
	● To develop an innovative design solution for a given problem by synthesizing the trends, socio-cultural factors and design language. ● Design a product, Design of Household elements, tools and devices

E. RECOMMENDED STUDY MATERIAL

Sr. No	Reference Book	Author	Edition	Publication
1.	Lighting: In Architecture and Interior Design	Wanda jankowski	1995	pbc intl
2.	Concepts and practice of Architectural Day lighting	Moore Fuller,	Latest	Van Nostrand Reinhold co.
3.	National Lighting Code		2011	Govt of India
Important Web Links				
1.	https://nptel.ac.in/courses/107103082			
2.	https://nptel.ac.in/courses/112107217			

25MIDEID2202 LANDSCAPE DESIGN 3 Credit [LTP: 1-0-4]

A. COURSE OUTCOMES

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Interpreting** the scope of landscape architecture and elements of landscape in interior spaces.	L6	PO2, PO4, PO7	PSO3
CO – 02	**Integrating** the impact of human activities on the environment and the role of architect in mitigating it.	L5	PO3, PO7	-
CO – 03	**Correlating** the elements of Interior Landscape Architecture	L4	PO2, PO7	PSO1, PSO3
CO – 04	**Assessing** the drawings required to solve various landscape construction details (paving, Curbs, steps, roof garden, retaining walls)	L3	PO3, PO5	-
CO – 05	**Building** Conceptual design development of design project.	L1	PO3, PO5	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	1	-	3	-	-	1	-	-	-	-	-	-	-	1
CO2	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	1	-	-	-	-	-	2	-	3
CO4	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
CO5	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-
WT. AVG		2.00	2.33	3.00	1.00		1.67						2.00		2.00

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Interior landscaping	12
2.	Physical requirements of plants	12
3.	Interior landscaping elements & principles	12
4.	Exercise on interior landscape	12
5.	Landscape design development	12

D. DETAILEDSYLLABUS

UNIT	UNIT DETAILS
1.	**Interior landscaping**
	● Definition of landscape ● Classification of plants, indoor plants and their functions, layout & components, Floriculture – commercial, ornamental, Selection of plants & pest control. ● Hardscape and Soft scape
2.	**Physical requirements of plants**
	● Physical requirements of plants – light, temperature, water, planting medium, soil separator, weight of plants, acclimatization & maintenance. ● Techniques to meet physical requirements. ● Plant selection criteria in landscape based upon visual, functional, micro-climatic and ecological aspects. ● Understanding effect of time on planting design. ● Interior space analysis and planning.
3.	**Interior landscaping elements & principles**
	● Various interior landscaping elements – water bodies - pools, fountains, cascades ● Plants, rocks, artefacts, paving & lighting, Design guidelines- plant texture & colour, plant height, plant spacing. ● **ROOF AND DECK LANDSCAPE**
	● Protection of the integrity of the roof and structure, provisions for drainage, light weight planting medium, irrigation, selection of materials, water proofing, provision for utilities and maintenance.
4.	**Exercise on interior landscape**
	● Introduction to **Design Concept development** ● Design exercise for pervious semester design problem. ● Conceptual zoning of landscape areas. ● Conceptualization of different zones and materials required for it. ● Segregation of hardscape & softscape.
5.	**Landscape design development**
	● Conceptual design development of design project.

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1	Time saver standards for landscape architecture			
2	Planting design	TheodoreD.Walker		VNR Publications New York
3	Landscaping Principles and Practices	Jack E.Ingels		Ingels, Delmar Publishers.
Important Web Links				
1.	https://nptel.ac.in/courses/124105001			

SEMESTER III

25MIDCID3101 PROJECT MANAGEMENT 2 Credits [LTP: 2-0-0]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Associating** the ability to design a component or a product applying all the relevant standards and with realistic constraints.	L6	PO10, PO11	PSO1
CO – 02	**Articulating** the general business concepts, practices, and tools to facilitate project success and apply project management practices to the launch of new programs, initiatives, products, services, and events relative to the needs of stakeholders.	L5	PO10, PO11	-
CO – 03	**Organizing** project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders and implementing project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success.	L3	PO11, PO12	PSO1
CO – 04	**Reflecting** the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders and align the project to the organization's strategic plans and business justification throughout its lifecycle.	L2	PO10, PO11	-
CO – 05	**Building** project management practices to meet the needs of stakeholders from multiple sectors of the economy and utilize technology tools for communication, collaboration, information management, and decision support.	L1	PO9, PO11	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1	-	-	-	-	-	-	-	-	-	2	3	-	1	-	-
CO2	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	3	2	1	-	-
CO4	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-
CO5	-	-	-	-	-	-	-	-	3	-	2	-	-	-	-
WT. AVG									**3.00**	**2.33**	**2.60**	**2.00**	**1.00**		

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Fundamentals of Design Management	5
2	Brand Value of Design	5
3	Blue Ocean strategy	4
4	Design Entrepreneurship	5
5	Project Management	5

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Fundamentals of Design Management**
	● Fundamentals of Design Management. ● Design Entrepreneurship and Design Firm Business performance ● Design Management
2.	**Marketing & Management**
	● Creating Brand Value of Design ● Differentiate Collaborate ● Innovate Validate Cultivate
3.	**Blue Ocean Strategy**
	● Introduction to Blue Ocean strategy ● Creating Blue Ocean ● Formulating Blue Ocean Strategy ● Executing Blue Ocean Strategy
4.	**Design Entrepreneurship**
	● Design Entrepreneurship for startups ● Intellectual Property Rights and Copyrights
5.	**Project Management**
	● Project Management, CPM, PERT & CRT ● Project Cost Analysis ● Professional Practice ● Business value of Design

E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Design Management	Brigitte Borja De Mozota		Allworth Press
2.	Brand Gap	Marty Neumeier		New Riders Publishing
3.	Blue Ocean Strategy	W. Chan Kim and Renee Mauborgne		Harvard Business School Press
4.	DMI Journals			
Important Web Links				
1.	https://nptel.ac.in/courses/110105167			
2.	https://archive.nptel.ac.in/content/syllabus_pdf/110107430.pdf			

25MIDCID3301	DISSERTATION (RESEARCH BASED)	8 Credits [LTP: 2-0-12]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Relating** ethical judgment based on a sound understanding of the fundamental concerns of the discipline of product design and the ways that its knowledge and practices are shared, assessed and accepted.	L5	PO3, PO5, PO10, PO12	-
CO – 02	**Articulating** the multiple criteria of interior design, including programmatic, thematic, structural and environmental concerns, and synthesizes these in persuasive product or industrial design projects that are conceptually grounded and technically adept.	L4	PO2, PO4, PO6, PO8	PSO1, PSO3
CO – 03	**Structuring and examining** the technical and environmental factors acting on interior design, and devise integrated solutions using evidence-based criteria.	L3	PO1, PO3, PO5, PO7, PO9	PSO2
CO – 04	**Reviewing** collaboratively in interdisciplinary contexts to address complex built environment problems, accommodating differing culturalvalues and practices to promote just outcomes and enact positive change.	L2	PO2, PO6, PO12	PSO3
CO – 05	**Building** the differing theoretical underpinnings, methodologies and conventions of various modes of product or interior design research to successfully conduct a substantial independent research project.	L1	PO2, PO4, PO10	PSO3

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1	-	-	3	-	2	-	-	-	-	2	-	2	-	-	-
CO2	-	3	-	2	-	1	-	2	-	-	-	-	1	-	3
CO3	1	-	2	-	2	-	1	-	1	-	-	-	-	1	-
CO4	-	3	-	-	-	1	-	-	-	-	-	1	-	-	3
CO5	-	3	-	1	-	-	-	-	-	1	-	-	-	-	3
WT. AVG	**1.00**	**3.00**	**2.50**	**1.50**	**2.00**	**1.00**	**1.00**	**2.00**	**1.00**	**1.50**		**1.50**	**1.00**	**1.00**	**3.00**

C. DETAILED SYLLABUS

UNIT	CONTENTS
NA	Each student is required to conduct a non-design study on topic selected by the student and approved by the department. The study shall be conducted under the guidance of teacher or external expert in the department. This Dissertation should lead to a design problem to be taken up as a Thesis Topic.

25MIDCID3202	INTERIOR DESIGN STUDIO – III	6 Credits [LTP: 1-0-5]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Estimating** problems that have relevance to societal / industrial needs.	L3	PO2, PO3	PSO3
CO – 02	**Determining** opportunity to involve in research related to science / engineering	L5	PO3, PO11	PSO1
CO – 03	**Explaining** independent thinking and analysis skills	L3	PO3, PO8	-
CO – 04	**Reflecting** the application of relevant science / engineering /Design principles.	L4	PO3, PO5	-
CO – 05	**Building** sustainable design and to evaluate the prototype.	L1	PO3, PO7	-

F. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	3	1	-	-	-	-	-	-	-	-	-	-	-	3
CO2	-	-	3	-	-	-	-	-	-	-	2	-	1	-	-
CO3	-	-	2	-	-	-	-	3	-	-	-	-	-	-	-
CO4	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-
CO5	-	-	2	-	-	-	3	-	-	-	-	-	-	-	-
WT. AVG		3.00	2.20		2.00		3.00	3.00			2.00		1.00		3.00

G. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to design Project	30
2	Case Studies	30
3	Design Concept	30
4	Technical drawings	30
5	Model Making/ 3D development	36

H. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Introduction to Interior Design**
	● To introduce to students, the design of a building with complexities related to luxury interiors, services, structures and site planning. ● Introduction to interior design, Brainstorming, Idea Generation Understanding users, defining their needs and defining the problem to solve Design, Definitions and Design Spectrum, ● Methods for creating creative concepts - exploration of alternative solutions
2.	**Case Studies**
	● Introduction of unit. ● Choose & select relevant case examples related to your project. ● Understanding the principles and standards of commercial spaces and also the anthropometry and ergonomics inside a given space. ● Study and analyze an existing case study w.r.t. the design project. (hospitality)
3.	**Design Concept**
	● Conceptual Layouts ● Developing concepts for the design project. ● To help students evolve their design by understanding the relationship between forms, function and space. ● Explain your design idea with the help of sketches.
4.	**Technical drawings**
	● Plan, Sectional Elevation**,** furniture layout. ● Detailed interior drawings. ● Make appropriate furniture details.
5.	**Model Making/ 3D development**
	● Models for the Design Project ● Rendered 3D interior views

I. RECOMMENDED STUDY MATERIAL

S. N.	Book	Author	Edition	Publication
1.	The Fundamentals of Interior Design	S. Dodsworth, S. Anderson	2nd	
2.	Residential Interior Design: A Guide to Planning Space	Maureen Mitton	3rd	
3.	Interior Design Material and Specification	Lisa Godsey	1st	
Important Web Links				
1.	https://www.just.edu.jo/~arabed/assets/files/The-FundamentalsofInteriorDesign-ARCH593A.pdf			
2.	https://ocd.lcwu.edu.pk/cfiles/Interior%20Design/C/BFA-ID-201/Designing-Interiors.pdf			

25MIDCID3501	Practical Training (Internship)	3 Credit [LTP: 0-0-6]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Expose** student to interior designer practice	L5	PO12	PSO1
CO – 02	**Integrating** the process of development of conceptual ideas, presentation skills, involvement in office discussions and client meetings.	L4	PO11, PO12	-
CO – 03	**Classify** the concepts into working drawings and forward with the process of tendering procedure, supervision during execution and coordination with the agencies involved in the manufacturing process.	L3	PO8, PO12	-
CO – 04	**Reflecting** the understanding of the evolution of a project from design to execution.	L2	PO11, PO12	-
CO – 05	**Develop** the exposure of actual working organization and have a practical learning experience during studies.	L1	PO11, PO12	-

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-
CO2	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-
CO3	-	-	-	-	-	-	-	2	-	-	-	3	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-
WT. AVG								**2.00**			**2.00**	**2.40**	**1.00**		

C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Days)
NA	**Practical Training (Internship) & its Seminar**	**45**

D. DETAILED SYLLABUS

UNIT	CONTENTS
1.	**Practical Training (Internship) & its Seminar**
	● Students shall work for a period of 45 days in an office of Interior Designer or allied professional approved by the institution. ● Student shall be submitting weekly/monthly work report ● Student shall be submitting critical appraisal of projects ● Students shall be submitting documentation of details and supervision of projects. ● Students will also have to submit the research as per the supervision by the Guide.

SEMESTER IV

25MIDCID4301 THESIS PROJECT 19 Credits [LTP: 1-0-18]

A. COURSE OUTCOME

Course Outcomes	At the end of this course, learners will be able to:	Bloom Level	PO Mapping	PSO Mapping
CO – 01	**Demonstrate** more in-depth knowledge of the major subject/field of study, including deeper insight into current research and development work.	L5	PO2, PO10	PSO3
CO – 02	**Integrating** a holistic view to critically, independently and creatively identify, formulate and deal with complex product design issues.	L3	PO4, PO6	-
CO – 03	**Connect** a consciousness of the ethical, social, and cultural aspects of research and development work.	L2	PO3, PO10	-
CO – 04	**Reflect** critical thinking and innovative skills.	L2	PO3	-
CO – 05	**Build** a good digital footprint implementing adequate methods to conduct qualified tasks in given frameworks	L1	PO5	PSO1

B. MAPPING MATRIX OF CO,PO, & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	3	-	-	-	-	-	-	-	2	-	-	-	-	3
CO2	-	-	-	2	-	3	-	-	-	-	-	-	-	-	-
CO3	-	-	3	-	-	-	-	-	-	2	-	-	-	-	-
CO4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-
WT. AVG		**3.00**	**3.00**	**2.00**	**3.00**	**3.00**				**2.00**			**1.00**		**3.00**

C. DETAILED SYLLABUS

UNIT	CONTENTS
1.	● Projects can be for a period of 6 months based on the completion of course projects and required number of credits as per the academic regulations. ● Must be an individual work. ● Carried out inside or outside the university, in any relevant industry or research institution. ● Design Registration and/or Design Patent of the work done during project period will be an added value. ● Publications in the peer reviewed Journals / International Conferences will be an added value.
	● Plagiarism checking by Turn in is a compulsory part of master's thesis. Plagiarism level should not exceed more than 12% as per the academic regulations

D. DELIVERABLES

The Project presentation, Prototype and Project report will be presented by the students.

*****