MGM University

Chhatrapati Sambhajinagar

Name of Faculty – Engineering & Technology

Name of College – Jawaharlal Nehru Engineering College

Name of Department – Architecture

Name of Programme – M. Arch. Interior Design

CURRICULUM BOOKLET

(With effect from Academic year 2025-26)

MGM Campus, N-6, CIDCO, Chhatrapati Sambhajinagar – 431003, Maharashtra, India.mgmu.ac.in

MGM University

Chhatrapati Sambhajinagar

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Contents

MGM University

Vision

- To ensure sustainable human development which encourages self-reliant and self-content society.
- To promote activities related to community services, social welfare and also Indian heritage and culture.
- To inculcate the culture of non-violence and truthfulness through vipassanna meditation and Gandhian Philosophy.
- To develop the culture of simple living and high thinking

Mission

- To impart state of art education and technical expertise to students and give necessary training to teachers to create self-reliant society for future.
- To encourage students to participate in Indian and International activities in sports, literature, etc. so that future generation becomes base for free and liberal society
- To educate students in areas like Management, Finance, Human relations to inculcate philosophy of simple living and high thinking value of simple economic society.
- To inculcate culture of non-violence and truthfulness through Vipassana.

  To sustain activities of Indian culture (viz. classical dance, music and fine arts) through establishing institutes like Mahagami, Naturopathy, etc.

विद्यापीठ गीत

अत्त दिप भव भव प्रदिप भव,
स्वरूप रूप भव हो
ज्ञान सब्ब विज्ञान सब्ब भव,
सब्ब दिप भव हो
अत्ताहि अत्त नो नाथो,
अत्ताहि अत्त नो गति
अत्त मार्गपर अप्रमादसे है तुझे चलना
सब्ब का कल्याण हो,
वो कार्यकुशल करना
सब्ब का उत्तम मंगल, पथप्रदर्शक हो
अत्त दिप भव भव प्रदिप भव,
स्वरूप रूप भव हो
ज्ञान सब्ब विज्ञान सब्ब भव,
सब्ब दिप भव हो
बुद्धमं शरनं गच्छामि:
धम्मं शरनं गच्छामि:
संघं शरनं गच्छामि:

Jawaharlal Nehru Engineering College (JNEC) at a Glance

Jawaharlal Nehru Engineering College is a premier institute of engineering that has carved a niche for itself in the field of technical education in a very short span of time. The college has made its presence felt in the world of technical education. JNEC is a conducted college of MGM University, Chhatrapati Sambhajinagar from the academic year 2020-21.

Unique in its structure, methods and goals, the college is strongly rooted in the philosophy of training and research that enhances the relationship between knowledge and its application and seeks to promote the creation of an ideal society. The college also provides facilities for research leading to Ph. D. through its Research Center. JNEC provides a congenial atmosphere for diligent academic pursuits. This has been reflected through the results. Most of our students are among the toppers in various engineering disciplines.

Vision

To create self-reliant, continuous learner & competent technocrats imbued with human values.

Mission

- Imparting quality technical education to the students through participative teaching –learning process.
- Developing competence amongst the students through academic learning and practical experimentation.
- Inculcating social mindset and human values amongst the students.

Programs offered at JNEC

Undergraduate Programmes	Postgraduate Programmes	PhD Programmes	PG Diploma Programmes	Certificate Programmes
B. Arch. - Architecture	M. Arch. – Interior Design	PhD Architecture		
B. Tech. Artificial Intelligence & Data Science	M. Arch. - Environmental Architecture	PhD Chemical Engineering		
B. Tech. Chemical Engineering	M. Tech. Digital Transformation	PhD Civil Engineering		
B. Tech. Civil Engineering	M. Tech. Electrical Power Systems	PhD Electrical Engineering		
B. Tech. Civil Engineering with Computer Applications	M. Tech. Mechanical Engineering	PhD Electronics Engineering		
B. Tech. Civil Engineering (Construction Technology)	M. Tech. Structural Engineering	PhD Mechanical Engineering		
B. Tech. Computer Science & Engineering	M. Tech. VLSI & Embedded Systems	PhD Computer Science & Engineering		
B. Tech. Electrical & Computer Engineering	Master of Computer Applications - MCA	PhD Computer Applications		
B. Tech. Electronics & Computer Engineering				
B. Tech. Mechanical Engineering				
B. Tech. Mechanical & Mechatronics Engineering (Additive Manufacturing)				
B. Tech. Robotics & Artificial Intelligence				

Department of Architecture

Architecture degree program is to develop sensitive and compassionate architects with skill, integrity, and enthusiasm to create the architecture of goodness. Irrespective of the challenges imposed by the advancement in the technology we have achieved a balance by preserving the age-old knowledge based learning methodologies and adding wisdom, value-based approach, which a machine cannot teach. Master's Programme is to elevate the architectural expertise and contribute to a sustainable future, specializing in Interior Design, at MGM University. This innovative program is designed for aspiring architects who are passionate about creating spaces that harmonize with the needs and promote sustainable living.

Name of Program – M. Arch.- Interior Design

Duration – Two Years

Eligibility – B. Arch.

1. Maharashtra State Candidate.

(i) The candidate should be an Indian National.

(ii) The eligibility for Admission to First Year of Two Years Post Graduate Program in Architecture for the academic session 2025-2026 shall be as per Council of Architecture (Minimum Standards of Architectural Education for Post-Graduate Degree Programme 2022) Guidelines as :

• No candidate shall be admitted to Post Graduate full-time degree or Certificate programme unless the candidate has passed an Entrance Test in B.Arch. Degree or equivalent with at least 50 percentage aggregate marks of equivalent CGPI.

• The candidate needs to qualify an Entrance test for post-graduation programme in Architecture Complying with the Admission Norms prescribed by CoA.

2. All India Candidates –

(i) The candidate should be an Indian National.

(ii) The eligibility for Admission to First Year of Two Years Post Graduate Program in Architecture for the academic session 2025-2026 shall be as per Council of Architecture (Minimum Standards of Architectural Education for Post-Graduate Degree Programme 2022) Guidelines as :

• No candidate shall be admitted to Post Graduate full-time degree or Certificate programme unless the candidate has passed an Entrance Test in B.Arch. Degree or equivalent with at least 50 percentage aggregate marks of equivalent CGPI.

• The candidate needs to qualify an Entrance test for post-graduation programme in Architecture Complying with the Admission Norms prescribed by CoA.

Name of Faculty: Faculty of Engineering and Technology **Programme Type (UG/PG):** PG

Name of the College/Institute/Department/School: Jawaharlal Nehru Engineering College **Duration:** Two years

Name of the Programme: M. Arch. – Interior Design

First Year Semester - I

Course Category	Course Code	Course Title	Nature of Course	No. of credit	Teaching (Contact hrs / week)		Evaluation scheme					Minimum Passing (Marks)				
					L	P	Internal (CA)	External			Total	Internal (CA)	External			Total
								ESE-TH	ESE - STW	ESE - SV			ESE-TH	ESE-STW	ESE - SV	
PCC	IDM21PCP501	Interior Design Studio - I	P	6	0	6	150	-	-	150	300	75	-	-	75	150
BSC	IDM21BSL502	Interior Construction Technology and Material – I (TH)	L	3	3	0	50	100	-	-	150	25	50	-	-	75
BSC	IDM21BSP503	Interior Construction Technology and Material – I (PR)	P	2	0	2	50	-	-	50	100	25	-	-	25	50
ESC	IDM21ESL504	Building Services in Interior Design - I	L	3	3	0	50	100	-	-	150	25	50	-	-	75
SEC	IDM21SEP505	CAD and Visualisation	P	2	0	4	50	-	50	-	100	25	-	25	-	50
PEC		Elective - I	P	2	0	2	50	-	50	-	100	25	-	25	-	50
	IDM21PEP506	Interior design and Psychology														
	IDM21PEP507	Interior Design Documentation														
	IDM21PEP508	Photography & Journalism														
Total				18	6	14	400	200	100	200	900					450

Note:

Nature of Course : L- Lecture, P-Practical, I-Internship, D-Dissertation

Course Category: PCC-Professional Core Course, BSC-Basic Science Course, ESE- Engineering Science Course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, HSSM-Entrepreneurship/Management Courses, OJT-On Job Training / Internship / Apprenticeship, PEC- Professional Elective Course, RM-Research methodology

Abbreviation for Evaluation Scheme: CA- Continuous Assessment, ESE-TH – End Semester Examination Theory Paper, ESE-STW - – End Semester Examination Sessional TermWork, ESE-SV - End Semester Examination Sessional Viva.

13/08/2025

First Year Semester-II

Course Category	Course Code	Course Title	Nature of Course	No. of credit	Teaching (Contact hrs / week)		Evaluation scheme					Minimum Passing (Marks)				
					L	P	Internal (CA)	External			Total	Internal (CA)	External			Total
								ESE-TH	ESE - STW	ESE - SV			ESE-TH	ESE-STW	ESE - SV	
PCC	IDM21PCP511	Interior Design Studio - II	P	6	0	6	150	-	-	150	300	75	-	-	75	150
BSC	IDM21BSL512	Interior Construction Technology and Material – II (TH)	L	3	3	0	50	100	-	-	150	25	50	-	-	75
BSC	IDM21BSP513	Interior Construction Technology and Material – II (PR)	P	2	0	2	50	-	-	50	100	25	-	-	25	50
ESC	IDM21ESL514	Building Services in Interior Design - II	L	3	3	0	50	100	-	-	150	25	50	-	-	75
SEC	IDM21SEP515	Interior Working Drawing	P	2	0	4	50	-	50	-	100	25	-	25	-	50
PEC		Elective - II	P	2	0	2	50	-	50	-	100	25	-	25	-	50
	IDM21PEP516	Interior Landscaping														
	IDM21PEP517	Traditional Indian Spaces														
	IDM21PEP518	Graphic Design in Interior Design														
Total				18	6	14	400	200	100	200	900					450

Note:
Nature of Course : L- Lecture, P-Practical, I-Internship, D-Dissertation
Course Category: PCC-Professional Core Course, BSC-Basic Science Course, ESE- Engineering Science Course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, HSSM-Entrepreneurship/Management Courses, OJT-On Job Training / Internship / Apprenticeship, PEC- Professional Elective Course, RM-Research methodology
Abbreviation for Evaluation Scheme: CA- Continuous Assessment, ESE-TH – End Semester Examination Theory Paper, ESE-STW - – End Semester Examination Sessional TermWork, ESE-SV - End Semester Examination Sessional Viva.

Second year Semester-III																
Course Category	Course Code	Course Title	Nature of Course	No. of credit	Teaching (Contact hrs / week)		Evaluation scheme					Minimum Passing (Marks)				
					L	P	Internal (CA)	External			Total	Internal (CA)	External			Total
								ESE -TH	ESE - STW	ESE - SV			ESE-TH	ESE-STW	ESE - SV	
PCC	IDM21PCP601	Interior Design Studio - III	P	6	0	6	150	-	-	150	300	75	-	-	75	150
HSC	IDM21BSL602	Interior Construction Technology and Material – III (TH)	L	3	3	0	50	100	-	-	150	25	50	-	-	75
BSC	IDM21BSP603	Interior Construction Technology and Material – III (PR)	P	2	0	2	50	-	-	50	100	25	-	-	25	50
RM	IDM21RML604	Research Methodology	L	3	3	0	50	100	-	-	150	25	50	-	-	75
SEC	IDM21SEP605	Estimation and Costing in Interior Design	P	2	0	4	50	-	50	-	100	25	-	25	-	50
OJT	IDM21JTP606	Professional Training	I	2	0	0	-	-	-	100	100	-	-	-	50	50
PEC		Elective - III	P	2	0	2	50	-	50	-	100	25	-	25	-	50
	IDM21PEP607	Sustainable Material in Interior Design														
	IDM21PEP608	Adaptive Reuse														
	IDM21PEP609	Internet Of Things and Smart Design														
Total				20	6	14	400	200	100	300	1000					500

Note:

Nature of Course : L- Lecture, P-Practical, I-Internship, D-Dissertation

Course Category: PCC-Professional Core Course, BSC-Basic Science Course, ESE- Engineering Science Course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, HSSM-Entrepreneurship/Management Courses, OJT-On Job Training / Internship / Apprenticeship, PEC- Professional Elective Course, RM-Research methodology

Abbreviation for Evaluation Scheme: CA- Continuous Assessment, ESE-TH – End Semester Examination Theory Paper, ESE-STW - – End Semester Examination Sessional TermWork, ESE-SV - End Semester Examination Sessional Viva.

Second year Semester-IV																
Course Category	Course Code	Course Title	Nature of Course	No. of credit	Teaching (Contact hrs / week)		Evaluation scheme					Minimum Passing (Marks)				
					L	P	Internal (CA)	External			Total	Internal (CA)	External			Total
								ESE-TH	ESE - STW	ESE - SV			ESE-TH	ESE-STW	ESE - SV	
PCC	IDM21PCP611	Dissertation	D	16	0	16	400	-	-	400	800	200	-	-	200	400
HSSM	IDM21HSP612	Project Management in Interior Design	P	4	0	4	100	-	100	-	200	50	-	50	-	100
Total				20	0	20	500		100	400	1000					500

Note:
Nature of Course : L- Lecture, P-Practical, I-Internship, D-Dissertation
Course Category: PCC-Professional Core Course, BSC-Basic Science Course, ESE- Engineering Science Course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, HSSM-Entrepreneurship/Management Courses, OJT-On Job Training / Internship / Apprenticeship, PEC- Professional Elective Course, RM-Research methodology
Abbreviation for Evaluation Scheme: CA- Continuous Assessment, ESE-TH – End Semester Examination Theory Paper, ESE-STW –- End Semester Examination Sessional TermWork, ESE-SV - End Semester Examination Sessional Viva.

Syllabus
Semester-I

Course code: IDM21PCP501	**Course name: Interior Design Studio - I**
Course category: PCC	**Credits:** 6
Teaching scheme: L-0 P-6	
Evaluation scheme: CA–150, ESE SV–150, Total - 300	
Pre-requisites:	
Course Objectives:	
1. The aim is to introduce the students to Interior Design and their Elements and Principles.	
2. To understand in depth, the factors influencing interior design, space usage, and spatial quality of smaller-scale designs.	
3. Apply varied presentation skills for formulating Interior Design Proposals.	
Course Outcomes: At the end of the course, the students will be able to -	
CO1: Apply the elements and principles of interior design in spatial layouts and visual compositions.	
CO2: Resolve complex user needs in interior design using appropriate design language and techniques.	
CO3: Carry out design analysis and conceptual development of interior spaces.	
CO4: Develop communication and presentation skills for design proposals through manual and digital methods.	
CO5: Use 3D modelling and rendering software to enhance the visualization of interior design projects.	

Contents –

Unit	Content	Teaching hours
1	**Ergonomics & Anthropometry in Interior Spaces-** Studies and introduction to human dimensions and functions, space activity relationships.	10
2	**Understanding Application of Elements & Principles of Interior Design-** Discussion and critique of assigned projects shall enable students to develop an understanding of 2D-3D design elements and principles that unify them in clear visual and conceptual organization.	10
3	**Graphic Representation** - Introduction to drawing for interior design, projections, perspectives, sketching interior environments, digital modelling and digital rendering, quick illustrations, manual sketching, and digital artwork. Presenting materials and finishes, creating design templates, digital mood boards, digital design library, digital illustrations, and rendering using software.	10
4	**Design Exercise – I-** Design of multi-functional small spaces like studio apartments, loft apartments through the application of aforementioned principles. Students are expected to follow the design process, programming, space planning, selection of finishes, furniture textures, and preparation of professional presentations.	40
5	**Design Exercise – II-** Design of uni-functional large spaces like exhibitions, chapels, meditation centres through the application of aforementioned principles. Students are expected to follow the design process, programming,	38

	space planning, selection of finishes, furniture textures, and preparation of professional presentations.	

Text Books:

1. Human Dimension & Interior Space – A Source Book of Design Reference Standards – Julius Panero, Martin Zelnik

2. Time-Saver Standards for Interior Design and Space Planning – Joseph DeChiara, Julius Panero, Martin Zelnik

3. SketchUp for Interior Design: 3D Visualizing, Designing, and Space Planning – Lydia Sloan Cline

Reference Books:

1. Interior Design Illustrated – Francis D.K. Ching

2. The Fundamentals of Interior Architecture – John Coles, Naomi House

Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21BSL502 **Course name**: Interior Construction Technology & Material – I(TH)
Course Category: BSC **Credits:** 3
Teaching scheme: L-3 P-0
Evaluation scheme: CA–50, ESE paper–100, Total – 150 **Paper duration**: 3 hrs.
Pre-requisites:
Course Objectives:
1. To facilitate understanding of material properties used in interiors.
2. To gain a better understanding of wood joineries and carpentry detailing.
3. To understand fixtures and fittings for engineered wood systems.
4. To comprehend the application of paints, surface finishes, and protective coatings
5. To enable preparation of specifications, estimation, and BOQ for interior construction elements
Course Outcomes: At the end of the course, the students will be able to –
CO1: Understand the fundamental characteristics and behavior of materials used in interior architecture.
CO2: Design and detail the joinery, fittings, and hardware of engineered wood systems.
CO3: Apply appropriate joinery and finishes for stone-based interior applications.
CO4: Implement various paint and finish techniques for surface treatments.
CO5: Prepare specifications, estimation, and BOQ based on working drawings of furniture elements.

Contents –

Unit	Content	Teaching hours
1	**Wood and Natural Construction Materials** - Study of solid wood types (hardwood/softwood), growth structure, properties, defects, and uses. Detailed carpentry joineries: dovetail, scissor joint, mortise & tenon. Wood finishes, engraving, polishing, and painting. Introduction to bamboo and cane properties and joineries.	9
2	**Engineered Wood and Fixtures** - Study of solid wood types (hardwood/softwood), growth structure, applications in partitions and paneling. Understanding joinery techniques, fittings, and hardware commonly used in engineered wood furniture systems.	15
3	**Stone as Interior Construction Material** - Understanding types of natural and engineered stones. Detailed study of granite and marble properties, finishes, and uses in interiors. Composition and applications of engineered stones.	9
4	**Miscellaneous Interior Materials and Finishes** - Study of alternative materials: linoleum, cork, rubber, leather, paper, rexine, laminates, and veneers. Understanding surface finishes: paints, epoxy, varnishes, micro-topping. Introduction to wall, ceiling, and	21

	floor finish applications. False ceiling types and fixing techniques.	

Text Books:
1. Construction Drawings and Details for Interiors – Rosemary Kilmer & W. Otie Kilmer 2. Interior Construction & Detailing for Designers & Architects – David Kent Ballast 3. Building Materials – S.K. Duggal
Reference Books:
1. Interior Design Illustrated – Francis D.K. Ching 2. Interior Design Materials and Specifications – Lisa Godsey
Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21BSP503 **Course name:** Interior Construction Technology & Material - I(PR)
Course Category: BSC **Credits:** 2
Teaching scheme: L-0 P-2
Evaluation scheme: CA–50, ESE SV–50, Total - 100
Pre-requisites:
Course Objectives:
1. To facilitate understanding of material properties used in interiors.
2. To gain a better understanding of wood joineries and carpentry detailing.
3. To understand fixtures and fittings for engineered wood systems.
4. To comprehend the application of paints, surface finishes, and protective coatings
5. To enable preparation of specifications, estimation, and BOQ for interior construction elements
Course Outcomes: At the end of the course, the students will be able to –
CO1: Understand the fundamental characteristics and behaviour of materials used in interior architecture.
CO2: Design and detail the joinery, fittings, and hardware of engineered wood systems.
CO3: Apply appropriate joinery and finishes for stone-based interior applications.
CO4: Implement various paint and finish techniques for surface treatments.
CO5: Prepare specifications, estimation, and BOQ based on working drawings of furniture elements.

Contents –

Unit	Content	Teaching hours
1	**Wood and Natural Construction Materials -** Study of solid wood types (hardwood/softwood), growth structure, properties, defects, and uses. Detailed carpentry joineries: dovetail, scissor joint, mortise & tenon. Wood finishes, engraving, polishing, and painting. Introduction to bamboo and cane properties and joineries.	8
2	**Engineered Wood and Fixtures -** Study of solid wood types (hardwood/softwood), growth structure, applications in partitions and paneling. Understanding joinery techniques, fittings, and hardware commonly used in engineered wood furniture systems.	10
3	**Stone as Interior Construction Material -** Understanding types of natural and engineered stones. Detailed study of granite and marble properties, finishes, and uses in interiors. Composition and applications of engineered stones.	8
4	**Miscellaneous Interior Materials and Finishes -** Study of alternative materials: linoleum, cork, rubber, leather, paper, rexine, laminates, and veneers. Understanding surface finishes: paints, epoxy, varnishes, micro-topping. Introduction to wall, ceiling, and floor finish applications. False ceiling types and fixing techniques.	10

Text Books:
1. Construction Drawings and Details for Interiors – Rosemary Kilmer & W. Otie Kilmer 2. Interior Construction & Detailing for Designers & Architects – David Kent Ballast 3. Building Materials – S.K. Duggal
Reference Books:
1. Interior Design Illustrated – Francis D.K. Ching 2. Interior Design Materials and Specifications – Lisa Godsey
Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21ESL504	**Course name: Building Services in Interior Design – I**
Course Category: ESC	**Credits:** 3
Teaching scheme: L-3 P-0	
Evaluation scheme: CA–50, ESE PAPER–100, Total – 150	**Paper duration:** 3 hrs.
Pre-requisites:	
Course Objectives:	
1. To understand human comfort parameters and environmental services essential in interior spaces.	
2. To integrate building service systems into interior design through technical understanding and regulatory compliance.	
3. To apply building services knowledge to real-time interior design projects through detailed service drawings.	
Course Outcomes:	
CO1: To demonstrate understanding of HVAC systems and their relevance to human comfort in interiors.	
CO2: To explain electrical distribution, safety, and communication systems used in interior environments.	
CO3: To interpret and apply plumbing systems for water supply, waste management, and gas distribution.	
CO4: To integrate building services into interior design projects using appropriate codes and case-based learning.	
CO5: To produce service drawings with reference to standards and use BIM tools for coordination.	

Contents –

Unit	Content	Teaching hours
1	**HVAC (Heating, Ventilation, and Air Conditioning) :** Thermal properties of materials, climate responsiveness. Introduction to HVAC systems: air conditioning, heating, mechanical ventilation. Air conditioning types, equipment, air distribution methods, and AC load calculation.	15
2	**Electrical Services :** Overview of power distribution and smart systems in buildings. Electrical circuits, transformers, UPS, emergency power systems. Data/voice networks, security and access control systems: CCTV, PA systems, fire alarms, BMS, lightning protection, surge protectors. Lighting layouts and safety codes.	12
3	**Plumbing and Waste Systems :** Systems for potable water (hot/cold), drainage, waste management, gas piping systems. Understanding plumbing fittings, fixtures, layouts, and code compliance for interior spaces.	12
4	**Case Study & Service Integration:** Study of integrated services in a selected interior architecture case. Application of services knowledge to Interior Design Studio – I project. Preparation of coordinated HVAC,	15

	electrical, and plumbing drawings. Understanding NBC, ISHRAE, ECBC standards and use of BIM for integration.	

Text Books:

1. Mechanical and Electrical Equipment for Buildings – Walter T. Grondzik, Alison G. Kwok
2. Building Services Handbook – Fred Hall & Roger Greeno
3. Handbook of Electrical Installation Practice – Geoffrey Stokes

Reference Books:

1. Plumbing Technology – R. D. Treloar
2. National Building Code of India (NBC) – Latest Edition
3. ISHRAE Handbook – Indian Society of Heating, Refrigerating and Air Conditioning Engineers
4. ECBC – Energy Conservation Building Code

Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21SEP505	**Course name: CAD and Visualisation**
Course Category: SEC	**Credits:** 2
Teaching scheme: L-0 P-4	
Evaluation scheme: CA–50, ESE STW–50, Total - 100	
Pre-requisites:	
Course Objectives:	
1. To provide an overview of computer hardware and software used in interior architecture.	
2. To develop competency in 2D drafting for architectural drawings using AutoCAD.	
3.To introduce 3D modeling concepts including wireframe, surface, and solid modeling.	
4.To initiate rendering techniques and visualization of spatial designs.	
5. To enable digital presentation and communication of interior design concepts.	
Course Outcomes:	
CO1: Use 2D CAD tools to develop interior drawings including plans, sections, and elevations.	
CO2: Create 3D models using basic wireframe, surface, and solid modeling techniques.	
CO3: Apply rendering and visualization principles to generate basic shaded or lit views.	
CO4: Compose digital sheets and boards for presenting design proposals effectively.	
CO5: Demonstrate familiarity with computer hardware and software relevant to interior design production.	

Contents –

Unit	Content	Teaching hours
1	Introduction to Digital Tools - Review of computer hardware, operating systems, and software packages used in interior architecture. Understanding interface and setup in AutoCAD.	10
2	2D Drafting with AutoCAD - Drafting interior layouts, plans, elevations, and sections using AutoCAD. Emphasis on line types, layers, hatching, dimensioning, and title blocks.	10
3	3D Modeling Techniques - Introduction to wireframe, surface, and solid modeling in AutoCAD or SketchUp. Modeling simple objects like furniture and spaces using 3D commands.	10
4	Basics of Rendering and Visualization- Understanding hidden surface removal, assigning materials, and applying light/shade. Use of simple rendering tools for basic visualization.	10
5	Presentation and Output - Exporting drawings and views. Creating layout sheets, presentation boards, and basic post-processing using tools like Photoshop. File management and print standards.	32

Text Books:

Reference Books:

1. AutoCAD for Interior Design and Space Planning – Beverly L. Kirkpatrick, James M. Kirkpatrick
2. SketchUp for Interior Design – Lydia Sloan Cline
3. Mastering AutoCAD – George Omura
4. Interior Design Visual Presentation – Maureen Mitton
5. Photoshop for Interior Designers – Suining Ding

Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21PEP506	Course name: Elective I (Interior Design and Psychology)
Course Category: PEC	**Credits:** 2
Teaching scheme: L-0 P-2	
Evaluation scheme: CA–50, ESE STW–50, Total - 100	
Pre-requisites:	
Course Objectives:	
1. To understand how human psychology influences spatial perception, behavior, and emotional responses in interior environments.	
2. To develop empathetic and human-centric design solutions through psychological understanding	
Course Outcomes: At the end of the course, the students will be able to –	
CO1: Understand the psychological principles related to spatial perception.	
CO2: Analyze the emotional and behavioral impacts of interior elements.	
CO3: Design empathetic interiors based on human psychology.	

Contents –

Unit	Content	Teaching hours
1	Psychological Impact of Interior Elements: Basics of psychology relevant to spatial environments. User behaviour, spatial cognition, perception.	8
2	User-Cantered Design: Understanding diverse user needs: age, gender, ability, and culture. Application of Maslow's hierarchy of needs in space planning.	8
3	Case Study Analysis: Study of spaces (homes, workplaces, healthcare, retail) with psychological impacts. Analysis of spatial elements and user behaviour.	8
4	Application to Interior Projects: Incorporation of psychological principles in ongoing design projects. Behavioural mapping and emotional zoning in interiors.	12

Course Code: IDM21PEP507	Course name: Elective I (Interior Design Documentation)
Course Category: PEC	**Credits:** 2
Teaching scheme: L-0 P-2	
Evaluation scheme: CA–50, ESE STW–50, Total - 100	
Pre-requisites:	
Course Objectives:	
1. To develop an understanding of the documentation process in interior design.	
2. To learn the preparation of tender sets, working drawings, specifications, and BOQ.	
Course Outcomes: At the end of the course, the students will be able to –	

CO1: Prepare professional working drawings and specification sheets.
CO2: Develop an understanding of estimation and tender processes.
CO3: Compile complete design documentation packages.

Contents –

Unit	Content	Teaching hours
1	Introduction to Documentation: Role of documentation in professional interior practice. Types of documentation.	6
2	Working Drawings: Detailing of interior elements like partitions, furniture, ceilings, flooring with annotations.	6
3	Specifications: Writing technical specifications for materials, finishes, and hardware.	6
4	Estimation and BOQ: Quantity take-off methods, preparation of estimates and itemized BOQ.	6
5	Project File Compilation: Creation of a complete documentation set for one interior design project.	12

Course Code: IDM21PEP508	**Course name: Elective I (Photography & Journalism)**
Course Category: PEC	**Credits:** 2
Teaching scheme: L-0 P-2	
Evaluation scheme: CA–50, ESE STW–50, Total - 100	
Pre-requisites:	
Course Objectives:	
1. To develop visual storytelling skills through photography and writing.	
2. To document and communicate design through journalistic methods.	
Course Outcomes: At the end of the course, the students will be able to –	
CO1: Capture interior environments effectively using photography.	
CO2: Write journalistic content focused on design.	
CO3: Present portfolios and content for academic and professional platforms.	

Contents –

Unit	Content	Teaching hours
1	Basics of Photography: Camera types, framing, exposure, lighting, interior photography techniques.	6
2	Photo Documentation: Recording design work, site conditions, and materials using visual methods.	6

3	Journalism & Writing: Writing techniques: description, critique, feature writing, interviews.	6
4	Design Journalism: Writing about architecture and interiors for print and digital media.	6
5	Portfolio and Blog Writing: Preparing visual portfolios and blog posts about interior design themes.	12

SEMESTER II

Course code: IDM21PCP511	**Course name: Interior Design Studio - II**
Course category: PCC	**Credits:** 6
Teaching scheme: L-0 P-6	
Evaluation scheme: CA–150, ESE SV–150, Total - 300	
Pre-requisites:	
Course Objectives:	
1. To advance the understanding of interior design through medium-scale, real-life design scenarios.	
2. To explore spatial narratives and user-centric approaches in hospitality, commercial, or institutional interiors.	
3. To incorporate materiality, color, texture, and atmosphere in experiential space-making.	
4. To encourage detailed resolution of interior spaces through drawings, models, and digital media.	
Course Outcomes: At the end of the course, the students will be able to -	
CO1: Create functionally and aesthetically sound interior spaces for medium-scale projects.	
CO2: Incorporate user behavior, spatial programming, and typology-specific needs into design.	
CO3: Explore and apply material palettes, surface finishes, and design languages in interior space-making.	
CO4: Develop and communicate comprehensive design proposals through drawings, models, and digital tools.	

Contents –

Unit	Content	Teaching hours
1	**User-Centric Design & Spatial Programming -** Understanding user profiling, spatial experience, behavior-based space planning; development of space programs based on typology-specific requirements.	10
2	**Design Language and Material Exploration -** Study of material palettes, surface finishes, textures, and color schemes. Emphasis on sensory perception and atmosphere in interior spaces.	10
3	**Design Exercise – I: Hospitality/Commercial Space -** Medium-scale design project such as a boutique hotel room, café, or retail store. Complete design process from concept to detailed presentation.	44
4	**Design Exercise – II: Institutional/Public Space -** Design of spaces such as libraries, art galleries, or community centres focusing on public interaction, inclusivity, and zoning. Emphasis on spatial experience, flow, and detailing.	44

Text Books:

1. Interior Design Illustrated – Francis D.K. Ching

2. Human Dimension & Interior Space – Julius Panero, Martin Zelnik 3. Materials for Interior Environments – Corky Binggeli
Reference Books: 1. The Fundamentals of Interior Architecture – John Coles, Naomi House 2. SketchUp for Interior Design: 3D Visualizing, Designing, and Space Planning – Lydia Sloan Cline 3. The Interior Plan: Concepts and Exercises – Roberto J. Rengel
Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21BSL512 **Course name:** Interior Construction Technology & Material - II(TH)	
Course Category: BSC	**Credits:** 3
Teaching scheme: L-3 P-0	
Evaluation scheme: CA–50, ESE paper–100, Total – 150	**Paper duration:** 3 hrs.
Pre-requisites:	
Course Objectives:	
1. To impart advanced knowledge of interior construction elements and joinery systems.	
2. To explore design and construction techniques of custom-built interior components.	
3. To develop technical detailing skills for execution and working drawings.	
4. To understand the use and application of innovative materials in interior detailing.	
Course Outcomes:	
CO1: Develop detailed working drawings for partitions, ceiling systems, and built-in furniture.	
CO2: Apply construction logic and appropriate materials for interior detailing and execution.	
CO3: Demonstrate understanding of interior joinery, modular construction and ergonomic requirements.	
CO4: Coordinate interior elements with services and lighting within construction drawings.	

Contents –

Unit	Content	Teaching hours
1	**Partitions and Paneling Systems -** Study of interior partition systems – framed, frameless, modular, operable partitions; dry and wet construction techniques. Detailed drawings and joinery of paneling systems in timber, MDF, glass and metal.	12
2	**Ceiling Systems -** Introduction to different types of ceilings – false ceilings, suspended systems, acoustic panels, coffered, stretch and modular ceilings. Detailing with framing systems, lighting integration and services coordination.	12
3	**Custom Furniture and Built-in Units -** Detailing of fixed and semi-fixed custom furniture such as reception desks, kitchen units, wardrobes, bookshelves, and counters. Emphasis on materials, joinery, ergonomics, and modularity.	18
4	**Staircase and Handrail Details -** Interior staircases – straight, doglegged, spiral and cantilevered. Materials, construction techniques and detailing of balustrades, handrails, and riser-tread relationships.	12

Text Books:
1. Construction Drawings and Details for Interiors – Rosemary Kilmer & W. Otie Kilmer
2. Interior Construction & Detailing for Designers & Architects – David Kent Ballast
3. Construction Detailing for Interior Design – P.I. Williams

Reference Books:

1. Interior Design Illustrated – Francis D.K. Ching

2. Interior Detailing: Concept to Construction – Christine M. Piotrowski & Elizabeth A. Rogers

Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21BSP513 **Course name:** Interior Construction Technology & Material - II(PR)
Course Category: BSC **Credits:** 2
Teaching scheme: L-0 P-2
Evaluation scheme: CA–50, ESE SV–50, Total - 100
Pre-requisites:
Course Objectives:
1. To impart advanced knowledge of interior construction elements and joinery systems.
2. To explore design and construction techniques of custom-built interior components.
3. To develop technical detailing skills for execution and working drawings.
4. To understand the use and application of innovative materials in interior detailing.
Course Outcomes:
CO1: Develop detailed working drawings for partitions, ceiling systems, and built-in furniture.
CO2: Apply construction logic and appropriate materials for interior detailing and execution.
CO3: Demonstrate understanding of interior joinery, modular construction and ergonomic requirements.
CO4: Coordinate interior elements with services and lighting within construction drawings.

Contents –

Unit	Content	Teaching hours
1	**Partitions and Paneling Systems** - Study of interior partition systems – framed, frameless, modular, operable partitions; dry and wet construction techniques. Detailed drawings and joinery of paneling systems in timber, MDF, glass and metal.	8
2	**Ceiling Systems** - Introduction to different types of ceilings – false ceilings, suspended systems, acoustic panels, coffered, stretch and modular ceilings. Detailing with framing systems, lighting integration and services coordination.	8
3	**Custom Furniture and Built-in Units** - Detailing of fixed and semi-fixed custom furniture such as reception desks, kitchen units, wardrobes, bookshelves, and counters. Emphasis on materials, joinery, ergonomics, and modularity.	12
4	**Staircase and Handrail Details** - Interior staircases – straight, doglegged, spiral and cantilevered. Materials, construction techniques and detailing of balustrades, handrails, and riser-tread relationships.	8

Text Books:
1. Construction Drawings and Details for Interiors – Rosemary Kilmer & W. Otie Kilmer
2. Interior Construction & Detailing for Designers & Architects – David Kent Ballast
3. Construction Detailing for Interior Design – P.I. Williams

Reference Books:
1. Interior Design Illustrated – Francis D.K. Ching
2. Interior Detailing: Concept to Construction – Christine M. Piotrowski & Elizabeth A. Rogers
Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21ESL514	**Course name: Building Services in Interior Design – II**
Course Category: ESC	**Credits:** 3
Teaching scheme: L-3 P-0	
Evaluation scheme: CA–50, ESE PAPER–100, Total – 150	**Paper duration:** 3 hrs.
Pre-requisites:	
Course Objectives:	
1.To build on the foundational understanding of building services with a focus on integration into interior spaces.	
2. To introduce electrical, plumbing, HVAC, and acoustics in context with functional interior requirements.	
3. To enable students to coordinate services logically within interior layouts.	
4. To develop basic technical diagrams and specifications required for design execution.	
Course Outcomes:	
CO1: Interpret and apply electrical and lighting layouts appropriate to interior use.	
CO2: Understand and plan plumbing and sanitary layouts in kitchen and bathroom interiors.	
CO3: Integrate HVAC systems logically into ceiling and spatial configurations.	
CO4: Apply acoustic strategies in the design of interior spaces based on function and materials.	
CO5: Coordinate building services effectively within interior design documentation.	

Contents –

Unit	Content	Teaching hours
1	**Electrical Systems in Interiors** - Principles of lighting and power distribution in interior spaces – types of circuits, switching layouts, load calculations. Planning for sockets, task lighting, ambient and decorative lighting.	9
2	**Plumbing and Sanitation in Interiors** - Planning of plumbing lines in kitchens, toilets, and utility areas. Water supply and drainage systems. Fixture positioning and basic fittings coordination.	9
3	**Mechanical Ventilation and HVAC** - Introduction to HVAC systems used in residential, commercial, and institutional interiors. Split and ductable ACs, air circulation paths, diffusers, and return grills. Placement and coordination with false ceilings.	9
4	**Acoustics in Interior Design** – Basic principles of sound transmission, absorption, and insulation. Use of materials and detailing techniques for sound control in spaces like auditoriums, offices, and studios.	9
5	**Integration and Coordination in Design** - Reading service drawings. Coordinating interior design drawings with MEP (Mechanical, Electrical, and Plumbing). Best practices for integrated design documentation	18

Text Books:
1. HVAC Fundamentals – Samuel Sugarman 2. Building Services Handbook – Fred Hall & Roger Greeno 3. Electrical Design Estimating and Costing – K. B. Raina, S. K. Bhattacharya 4. Architectural Acoustics – M. David Egan
Reference Books:
1. Plumbing Design and Practice – S. G. Deolalikar 2. Building Construction Illustrated – Francis D.K. Ching
Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21SEP515	**Course name: Interior Working Drawing**
Course Category: SEC	**Credits:** 2
Teaching scheme: L-0 P-4	
Evaluation scheme: CA–50, ESE STW–50, Total - 100	
Pre-requisites:	
Course Objectives:	
1.To familiarize students with the set of working drawings required for the execution of an interior project.	
2. To develop skills in technical drafting, annotation, dimensioning, and graphical standards.	
3. To introduce the structure and sequencing of drawing sets for client and site communication.	
4. To enable accurate graphical representation of furniture, fittings, partitions, and other interior components	
Course Outcomes:	
CO1: Prepare a comprehensive set of working drawings for interior execution.	
CO2: Draft interior plans, elevations, and sections with accurate dimensions, notations and finishes. CO3: Develop detailed drawings for furniture and joinery components.	
CO4: Coordinate basic interior layouts with electrical and plumbing services in technical drawings	

Contents –

Unit	Content	Teaching hours
1	**Introduction to Working Drawings -** Purpose, types, and sequence of working drawings; overview of project documentation – architectural, interior, and services. Study of drawing standards, line weights, and sheet compositions.	16
2	**Plans, Elevations and Sections -** Preparation of floor plans, reflected ceiling plans, and furniture layouts. Drawing elevations and sections to scale, indicating material finishes, dimensions, and notations.	20
3	**Interior Joinery and Furniture Details -** Working drawings for partitions, paneling, and custom-built furniture such as wardrobes, counters, and cabinets. Joinery details, hardware indications, and modular coordination.	18
4	**Services Coordination Drawings -** Basic integration of electrical, plumbing, and HVAC elements into interior layouts. Preparation of coordinated ceiling and flooring layouts with cut-outs, lighting, and service points.	18

Text Books: 1. Interior Design Working Drawings – Mark Karlen, Rob Fleming 2. Interior Construction & Detailing for Designers & Architects – David Kent Ballast 3. Building Construction Illustrated – Francis D.K. Ching
Reference Books:

1. Time-Saver Standards for Interior Design and Space Planning – Joseph DeChiara, Julius Panero 2. Working Drawings Handbook – Keith Styles, Andrew Bichard
Online Resources: 1. NPTEL / SWAYAM lectures.

Course Code: IDM21PEP516	Course name: Elective II (Interior Landscaping)
Course Category: PEC	**Credits:** 2
Teaching scheme: L-0 P-2	
Evaluation scheme: CA–50, ESE STW–50, Total - 100	
Pre-requisites:	
Course Objectives:	
1. To explore the integration of soft and hard landscape elements within interior environments.	
2. To understand indoor planting systems, vertical gardens, and planter integration.	
3. To enable students to design calming, biophilic interiors through vegetation, light, water, and texture.	
Course Outcomes: At the end of the course, the students will be able to –	
CO1: Understand the principles of biophilic and interior landscaping design.	
CO2: Identify and select appropriate plant species for interior conditions.	
CO3: Integrate soft and hardscape elements into functional interior spaces.	
CO4: Develop detailed designs and visual presentations for interior landscapes.	

Contents –

Unit	Content	Teaching hours
1	**Introduction to Interior Landscaping -** Importance of greenery in interiors; history and evolution of interior landscapes; biophilic design principles.	6
2	**Indoor Plants and Their Selection -** Study of indoor plant species, growth habits, light and water requirements; container types and placement strategies.	8
3	**Planter Design and Integration -** Built-in planters, green partitions, vertical gardens, hydroponic systems; materials, drainage, and irrigation considerations.	6
4	**Hardscape Elements in Interiors -** Paving, decks, water features, pebbles, lighting, and accessories in landscaped interiors.	6
5	**Design Project -** Design of a residential/commercial interior integrating soft and hard landscaping elements; drawings, mood boards, plant palettes.	10

Course Code: IDM21PEP517	Course name: Elective II (Traditional Indian Spaces)
Course Category: PEC	Credits: 2

Teaching scheme: L-0 P-2
Evaluation scheme: CA–50, ESE STW–50, Total - 100
Pre-requisites:
Course Objectives:
1. To study spatial organization, design vocabulary, and symbolic meanings in traditional Indian interiors.
2. To understand regional variations and cultural context of vernacular interiors.
3. To reinterpret traditional values into contemporary interior design.

Course Outcomes: At the end of the course, the students will be able to –
CO1: Understand the cultural and spatial logic of traditional Indian interiors.
CO2: Analyze regional vernacular interior elements and materials.
CO3: Document and interpret traditional crafts and spatial identities.
CO4: Apply traditional design vocabulary in modern interior projects.
Contents –

Unit	Content	Teaching hours
1	**Overview of Traditional Indian Architecture -** Philosophies such as Vastu Shastra; spatial hierarchy, orientation, and rituals.	8
2	**Typological Studies -** Study of domestic, religious and community spaces like havelis, temples, stepwells, and courtyard houses.	6
3	**Regional Vernacular Interiors -** Interior architecture of Kerala, Rajasthan, Gujarat, Bengal, and North- East India – materials, furniture, crafts, and colors.	6
4	**Crafts and Decorative Arts -** Integration of crafts like wood carving, fresco, kolam, jaali work, stone inlay, and textiles.	6
5	**Contemporary Interpretations -** Design project to reinterpret traditional spatial or craft vocabulary into a contemporary interior setting.	10

Course Code: IDM21ESL518	**Course name: Elective II (Graphic Design in Interior Design)**
Course Category: PEC	**Credits:** 2
Teaching scheme: L-0 P-2	
Evaluation scheme: CA–50, ESE STW–50, Total - 100	
Pre-requisites:	
Course Objectives:	
1. To introduce graphic design principles applicable in interior design visualization and branding.	
2. To explore visual hierarchy, typography, colour, and digital layout tools.	
3. To integrate signage, wayfinding and environmental graphics into interior spaces.	

Course Outcomes: At the end of the course, the students will be able to –
CO1: Apply graphic design principles in interior visual communication.
CO2: Develop visual identity systems for interior spaces.
CO3: Use digital tools for graphic composition and layout design.
CO4: Design environmental and wayfinding graphics in a spatial context.

Contents –

Unit	Content	Teaching hours
1	**Fundamentals of Graphic Design** - Design elements – line, shape, color, typography, balance, and contrast.	6
2	**Digital Tools and Techniques** - Introduction to Adobe Illustrator, Photoshop, InDesign, Canva; raster vs. vector.	8
3	**Visual Communication in Interiors** - Signage design, mural graphics, wall art, and informational graphics in retail, hospitality, and public spaces.	6
4	**Environmental and Wayfinding Graphics** - Design of directional signs, branding panels, and iconography for interior navigation.	6
5	**Design Project** - Conceptual design of a complete environmental graphic system for a public interior (e.g., library, retail store, museum).	10