GOVERNMENT OF NAGALAND

DIRECTORATE OF TECHNICAL EDUCATION
NAGALAND: KOHIMA

DIPLOMA CURRICULUM STRUCTURE FOR INTERIOR DESIGN (ID) 3 (THREE) YEARS COURSE

APPROVED
BY
STATE COUNCIL FOR TECHNICAL EDUCATION (SCTE)
NAGALAND

DESIGNED IN COLLABORATION WITH

- STRUCTURE BY NITTTR, KOLKATA
- AICTE MODEL CURRICULUM
- BASED ON NEP2020
- COA GUIDELINES AND NORMS

FOR THE STATE OF NAGALAND
(*July 2025*)

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KEY FEATURES OF THE CURRICULUM

1. Program Name: Diploma in Interior Design
2. Duration: Three years (Six Semesters)
3. Eligibility Criteria: Matriculation (HSLC pass) with a minimum of 45% marks in Mathematics and Science
4. Intake Capacity: 15 students
5. Program Structure: Semester-based system
6. Admission Process: Selection through the Diploma Entrance Examination (DEE)
7. Ecology and Environmental Studies: In accordance with Government of India directives, Environmental Studies has been integrated into the curriculum

CAREER OPPORTUNITIES FOR DIPLOMA HOLDERS IN INTERIOR DESIGN

Employment Opportunities for Diploma Holders in Interior Design

Given the dynamic landscape of the interior design industry, diploma holders can explore a range of promising career paths. This field offers abundant opportunities for those with creativity, innovation, and technical skills.

A) Employment Opportunities

- Government Sector:
    - State Public Works Department (PWD)
    - Local Development Authorities
    - Teaching positions in technical institutions
- Private Sector:
    - Interior design and architectural firms
    - Construction companies (public and private)
    - Service sector roles in hotels, offices, and commercial spaces for maintenance and repair
    - Site supervision for interior and construction projects
    - Drafting services using AutoCAD, SketchUp, and other design software

B) Self-Employment Opportunities

- Freelance Consultancy:
    - Interior Designer
    - Product and Furniture Designer
- Project Execution and Supervision:
    - Interior renovation and remodeling projects
    - 3D visualization and rendering services for designers and architects
- Entrepreneurial Ventures:

- Model-making, landscaping, and terrace gardening

    - Specialized interior services such as false ceilings, custom flooring, woodworking, and furniture manufacturing
    - Computer-aided design (CAD) and drafting services for outsourcing
    - Supplying and marketing interior materials and components
    - Cost estimation and project budgeting
- Support Services for Design Firms:
    - Site supervision and surveying
    - Project estimation and billing
    - Marketing of building materials and components
    - Liaison and coordination work

LEARNING OUTCOMES AND COMPETENCY PROFILE OF DIPLOMA HOLDERS IN INTERIOR DESIGN

Core Responsibilities and Competencies for Diploma Holders in Interior Design

1. Key Responsibilities

   Based on the employment opportunities available, diploma holders in Interior Design are expected to excel in the following priority areas:

2. Drawing Preparation and Interpretation:

   - Preliminary sketches, line plans, and tracing
   - Presentation drawings (black-and-white, colored, perspective)
   - Submission, working, and service drawings with detailed annotations
   - Print preparation, maintenance of records, and drawing archives

3. Design and Layout Development:

   - Small building designs, furniture layouts, and circulation planning

4. Site Supervision and Management:

   - Measuring, surveying, and inspection tasks on-site

5. Model Making:

   - Study models, block models, and detailed architectural models

6. Project Documentation:

   - Assistance with tender preparation, cost estimation, and valuation

7. Interior Design Execution:

   - Layout planning, material selection, and on-site execution

8. Office and Project Management:

   - Managing the daily operations of an interior designer’s or architect’s office
   - Market research for construction and interior materials

9. Essential Learning Outcomes and Competencies

To meet industry demands, students should develop the following competencies:

- Proficiency in free-hand sketching, lettering, and technical drawing preparation
- Ability to design small buildings, furniture layouts, and interior models using various materials
- Skills in creating submission drawings and related documentation for regulatory approvals
- Knowledge of site management, including measurement, surveying, and inspections
- Understanding of cost estimation, tender documentation, and valuation for small-scale projects
- Mastery of drawing reproduction techniques, including printing, plotting, and maintenance
- In-depth understanding of building materials and their practical applications
- Familiarity with the principles of design and design theory
- Insight into the history of interior and furniture design and their construction techniques
- Proficiency in computer-aided design (CAD) and digital tools for interior architecture
- Awareness of financial resource systems for small enterprise management
- Basic knowledge of climatology, environmental impact, and sustainable practices
- Understanding of product design and visual merchandising techniques
- Expertise in building and interior services integration
- Strong communication, managerial, and hands-on practical skills
- Commitment to professional ethics, values, and a proactive attitude

STUDY SCHEME FOR SEMESTERS 1–6

TOTAL MARKS AND CREDIT DISTRIBUTION FROM 1ST to 6TH Semester

Semester	Marks	Credit
1st semester	900	20
2nd semester	900	19
3rd semester	1100	23
4th semester	900	19
5th semester	800	22
6th semester	600	17
TOTAL	**5200**	**120**

PROG. NAME: INTERIOR DESIGN

SEMESTER- I

SL. No	Category of Course	Code No	Course Title	Study Scheme				Evaluation Scheme							Total Marks	Credits
				Pre-requisite	Contact Hours/ week			Theory				Practical				
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment			
									Class Test	Assignment	Attendance		Sessional	Viva voce		
1	BASIC PROGRAM COURSE	IDB101	Basic Design and Sketching Lab		-	-	4	-	-	-	-	40	40	20	100	2
2		IDB102	Introduction to the History of Interior Design		3	-	-	60	20	15	5	-	-	-	100	3
3		IDB103	Fundamentals of Building Construction & Materials		3	-	-	60	20	15	5	-	-	-	100	3
4		IDB104	Hand Drafting in Interior Design Lab		-	-	6	-	-	-	-	40	40	20	100	3
5		IDB105	3D Volume and Model Making Lab		-	-	4	-	-	-	-	40	40	20	100	2
6	HUMANITIES & SOCIAL SCIENCE	HS101	Communication skills		2	-	-	60	20	15	5	-	-	-	100	2
7		HS 103	Sports & Yoga/ NCC/NSS		-	-	2	-	-	-	-	40	40	20	100	1
8		HS 105	Communication skills in English Lab-I		-	-	2	-	-	-	-	40	40	20	100	1
9	WORKSHOP	IDT101	Assistant Carpenter – Wooden Furniture – I		-	-	6	-	-	-	-	40	40	20	100	3
TOTAL					8	0	24	180	60	45	15	240	240	120	**900**	**20**

PROG. NAME: INTERIOR DESIGN

SEMESTER- II

SL. No	Category of Course	Code No	Course Title	Study Scheme				Evaluation Scheme							Total Marks	Credits
				Pre-requisite	Contact Hours/ week			Theory				Practical				
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment			
									Class Test	Assignment	Attendance		Sessional	Viva voce		
1	BASIC PROGRAM COURSE	IDB201	Introduction to AutoCAD Lab		-	-	2	-	-	-	-	40	40	20	100	1
2		IDB202	Introduction to Interior Services		2	-	-	60	20	15	5	-	-	-	100	2
3	PROGRAM CORE	ID201	History of Interior Design – I		3	-	-	60	20	15	5	-	-	-	100	3
4		ID202	Building Construction & Materials – I		1	-	-	60	20	15	5	-	-	-	100	1
5		ID203	Interior Design I – Residence Lab		-	-	6	-	-	-	-	40	40	20	100	3
6		ID204	Building Construction & Materials – I Lab		-	-	4	-	-	-	-	40	40	20	100	2
7	HUMANITIES & SOCIAL SCIENCE	HS 106	Communication skills in English Lab-II		-	-	2	-	-	-	-	-	-	-	-	1
8	ENGINEERING SCIENCE	ES102	Introduction to IT Systems		2	-	-	60	20	15	5	-	-	-	100	2
9		ES108	Introduction to IT Systems Lab		-	-	2	-	-	-	-	40	40	20	100	1
10	MANDATORY AUDIT COURSE	AU102	Environmental Science		2	-	-	-	-	-	-	-	-	-	-	-
11	WORKSHOP	IDT201	Assistant Carpenter – Wooden Furniture – II		-	-	6	-	-	-	-	40	40	20	100	3
`TOTAL					10	0	22	240	80	60	25	200	200	100	**900**	**19**

PROG. NAME: INTERIOR DESIGN

Semester-III

SL. No	Category of Course	Code No	Course Title	Study Scheme				Evaluation Scheme							Total Marks	Credits
				Pre-requisite	Contact Hours/ week			Theory				Practical				
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment			
									Class Test	Assignment	Attendance		Sessional	Viva voce		
1	PROGRAM CORE	ID301	Interior Services – I (Electrical & Plumbing)		2	-	-	60	20	15	5	-	-	-	100	2
2		ID302	History of Interior Design – II		3	-	-	60	20	15	5	-	-	-	100	3
3		ID303	Building Construction & Materials – II		2	-	-	60	20	15	5	-	-	-	100	2
4		ID304	Interior Design II – Restaurant Lab		-	-	6	-	-	-	-	40	40	20	100	3
5		ID305	Computer Application – I (CAD) Lab		-	-	4	-	-	-	-	40	40	20	100	2
6		ID306	Costing and Estimation		2	-	-	60	20	15	5	-	-	-	100	2
7		ID307	Interior Services – I (Electrical & Plumbing) Lab		-	-	2	-	-	-	-	40	40	20	100	1
8		ID308	Building Construction & Materials – II Lab		-	-	2	-	-	-	-	40	40	20	100	1
9	OPEN ELECTIVE	IDOE301 (Any one)	ii. Open Elective – I		3	-	-	60	20	15	5	-	-	-	100	3
10	WORKSHOP	IDT301	Interior Design Workshop – I		-	-	2	-	-	-	-	40	40	20	100	1
11		IDT302	Assistant Welder		-	-	6	-	-	-	-	40	40	20	100	3
TOTAL					12	0	22	300	100	75	25	240	240	120	**1100**	**23**

PROG. NAME: INTERIOR DESIGN

Semester-IV

SL. No	Category of Course	Code No	Course Title	Study Scheme				Evaluation Scheme							Total Marks	Credits
				Pre-requisite	Contact Hours/ week			Theory				Practical				
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment			
									Class Test	Assignment	Attendance		Sessional	Viva voce		
1	PROGRAM CORE COURSE	ID401	Interior Services – II (Fire Fighting & HVAC)		2	-	-	60	20	15	5	-	-	-	100	2
2		ID402	Building Construction & Materials – III		2	-	-	60	20	15	5	-	-	-	100	2
3		ID403	Interior Design – III (Retail Outlet) Lab		-	-	6	-	-	-	-	40	40	20	100	3
4		ID404	Computer Application – II (CAD and Sketchup) Lab		-	-	6	-	-	-	-	40	40	20	100	3
5		ID405	Interior Services – II (Fire Fighting & HVAC) Lab		-	-	2	-	-	-	-	40	40	20	100	1
6		ID406	Building Construction & Materials – III Lab		-	-	2	-	-	-	-	40	40	20	100	1
5	PROGRAM ELECTIVE COURSE	IDE401	i. Kitchen Design ii. Furniture Design		3	-	-	60	20	15	5	-	-	-	100	3
6	MANDATORY COURSE	AU401	Essence of Indian Knowledge and Tradition		1	-	-	-	-	-	-	-	-	-	-	0
7	WORKSHOP	IDT401	Interior Design Workshop – II		-	-	2	-	-	-	-	40	40	20	100	1
8		IDT402	Interior Space Design – I		-	-	6	-	-	-	-	40	40	20	100	3
TOTAL					8	0	24	180	60	45	15	240	240	120	**900**	**19**

PROG. NAME: INTERIOR DESIGN

Semester- V

SL. No	Category of Course	Code No	Course Title	Study Scheme				Evaluation Scheme							Total Marks	Credits
				Pre-requisite	Contact Hours/ week			Theory				Practical				
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment			
									Class Test	Assignment	Attendance		Sessional	Viva voce		
1	PROGRAM CORE COURSE	ID501	Computer Application – III (CAD, Sketchup and Rendering Systems) Lab		-	-	8	-	-	-	-	40	40	20	100	4
2		ID502	Interior Design III – Working Drawings Lab		-	-	8	-	-	-	-	40	40	20	100	4
3	PROGRAM ELECTIVE COURSE	IDE501 (Any one)	iii. Exhibition Design iv. Event Design		3	-	-	60	20	15	5	-	-	-	100	3
4		IDE401 (Any one)	iii. Intelligent Interiors iv. Eco Friendly Interiors		3	-	-	60	20	15	5	-	-	-	100	3
5	OPEN ELECTIVE COURSE	IDOE501 (Any one)	i. Open Elective – II		3	-	-	60	20	15	5	-	-	-	100	3
6	WORKSHOP INTERNSHIP MAJOR/ MINOR PROJECT	IP501	Internship – I (4 weeks after Semester IV)		-	-	-	-	-	-	-	40	40	20	100	3
7		IP502	Minor Project – Research and Study Lab		-	-	2	-	-	-	-	40	40	20	100	1
8		IDT501	Interior Design Workshop – III		-	-	2	-	-	-	-	40	40	20	100	1
Total					9	-	20	180	60	45	15	200	200	100	**800**	**22**

PROG. NAME: INTERIOR DESIGN

Semester- VI

SL. No	Category of Course	Code No	Course Title	Study Scheme				Evaluation Scheme							Total Marks	Credits
				Pre-requisite	Contact Hours/ week			Theory				Practical				
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment			
									Class Test	Assignment	Attendance		Sessional	Viva voce		
1	PROGRAM CORE COURSE	ID601	Design Management & Professional Practices		1	-	-	60	20	15	5	-	-	-	100	1
2		ID602	Portfolio and Display		-	-	4	-	-	-	-	40	40	20	100	2
	OPEN ELECTIVE COURSE	IDOE601 (Any one)	iii. Open Elective – III		3	-	-	60	20	15	5	-	-	-	100	3
3	INTERNSHIP, MAJOR PROJECT	IP601	Internship – II (8 weeks after Semester IV)		-	-	-	-	-	-	-	40	40	20	100	4
6		IP602	Major Project		-	-	6	-	-	-	-	40	40	20	100	3
4	HUMANITIES & SOCIAL SCIENCE	HS601	Entrepreneurship and Start-Up		4	-	-	60	20	15	5	-	-	-	100	4
5	MANDATORY COURSE	AU601	Indian Constitution		2	-	-	-	-	-	-	-	-	-	-	0
Total					10	-	10	180	60	45	15	120	120	60	**600**	**17**

DETAILED THEORY SYLLABUS – FIRST SEMESTER

IDB101 – BASIC DESIGN AND SKETCHING LAB KCA DISTRIBUTION

Sl.no	TOPIC	TOTAL
1	Introduction	5
2	Design Fundamentals	5
3	Elements of Design	5
4	Principles of Design	5
5	Anthropometrics & Ergonomics Studies	10
6	Sketching	10
40		

NAME OF THE SUBJECT :			BASIC DESIGN AND SKETCHING
Course code: IDB101			Semester: First
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	4	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	2		

RATIONALE

Art and basic design serve as the foundation for students entering the field of interior design and decoration. A thorough understanding of design principles, elements, and methodology is essential for developing visual literacy and creative problem-solving skills. This course will equip students with the ability to express ideas through various mediums, recognize design aesthetics, and apply design fundamentals effectively. Through practical exercises and theoretical learning, students will build an appreciation for the built environment and enhance their artistic and observational skills.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

1. Identify various drawing tools, mediums, and their respective functions.
2. Develop sketching skills for live objects, buildings, and landscapes.
3. Enhance visual literacy by analyzing and interpreting surroundings.
4. Cultivate an appreciation for interior and architectural aesthetics.
5. Apply design principles and elements in creative compositions.
6. Utilize different measurement systems for accurate drafting.
7. Visualize three-dimensional objects through two-dimensional drawings and projections.

DETAILED COURSE CONTENT (PRACTICAL)

Teaching Scheme: 14 weeks per semester (12 weeks for teaching, 2 weeks for smart classes and revision)

1: Introduction to Basic Art & Design (15 Hours | 5 Marks)

1.1 Mediums of Expression: Pencil, Ink, Crayons, Types of Colors (6 hours)

1.2 Tools and Materials: T-square, Set-square, Drawing board, Compass (6 hours)

1.3 Forms of Artistic Expression: Visual & Performing Arts (3 hours)

2: Design Fundamentals (15 Hours | 5 Marks)

2.1 Definition & Importance of Design (6 hours)

2.2 Types of Design: Functional, Traditional, Folk, Modern (6 hours)

2.3 Relationship between Design and Nature (3 hours)

3: Elements of Design (30 Hours | 5 Marks)

3.1 LINE: Types, Effects, Direction, Shape, Size, Form, Value (6 hours)

3.2 COLOR: Prang System, Primary to Quaternary Colors, Color Theories (6 hours)

3.3 PATTERN, TONES & TEXTURE: Natural & Geometric, Ornamentation (6 hours)

3.4 Practical Exercises in Composition Using Elements (12 hours)

4: Principles of Design (30 Hours | 5 Marks)

4.1 BALANCE: Formal, Informal, Symmetry, Asymmetry (6 hours)

4.2 HARMONY: Line, Shape, Size, Texture, Color (6 hours)

4.3 RHYTHM: Repetition, Progression, Continuous Movement (6 hours)

4.4 EMPHASIS: Focal Points, Contrast, Grouping, Background Variations (6 hours)

4.5 Practical Exercises Applying Principles (6 hours)

5: Anthropometrics & Ergonomics (30 Hours | 10 Marks)

5.1 Study of Human Proportions, Body Movements (6 hours)

5.2 Ergonomic Considerations in Interior Spaces (6 hours)

5.3 Application of Ergonomics in Space Planning (6 hours)

5.4 Practical Exercises on Ergonomic Measurements (12 hours)

6: Sketching & Visualization (30 Hours | 10 Marks)

6.1 Freehand Sketching: Leaves, Flowers, Trees (6 hours)

6.2 Sketching Living Forms: Humans, Animals (6 hours)

6.3 Architectural Sketching: Buildings, Interiors, Furniture (6 hours)

6.4 Use of Various Sketching Media: Pencil, Pen, Ink, Watercolor (6 hours)

6.5 Practical Assessment of Sketching Skills (6 hours)

INSTRUCTIONAL STRATEGY

- Encourage student participation through hands-on activities, role play, and interactive sessions.
- Promote daily sketching practice with a minimum of two sketches per day.
- Conduct classroom exercises on proportion, scale, and balance to enhance practical learning.

MEANS OF ASSESSMENT

- Assignments, quizzes, mid-semester, and end-semester tests.
- Practical exercises and viva-voce.
- Presentation of design work on drawing sheets.

RECOMMENDED BOOKS

1. *Rendering with Pencil and Ink* – Gill Robert W.
2. *Interior Design* – Ahmed A. Kasu
3. *Architectural Aesthetics* – Sangeet Sharma
4. *Learning Curves* – Klara Sjolen & Allan McDonalds
5. *The Complete Book of Drawing* – Barrington Barber

(IDB102) INTRODUCTION TO THE HISTORY OF INTERIOR DESIGN KCA DISTRIBUTION

Sl.no	TOPIC	KNOWLEDGE (DESCRIPTIVE)	COMPREHENSION	APPLICATION (MCQs/Fill in the blanks)	TOTAL
1	Introduction to History of Interior Design	**4**	**2**	**2**	**8**
2	Ancient Civilizations (Egyptian, Greek, Roman)	**7**	**4**	**3**	**14**
3	Buddhist, Hindu & Islamic Influence in India	**6**	**3**	**3**	**12**
4	Medieval & Renaissance Interiors (Europe & India)	**7**	**4**	**3**	**14**
5	Early Modern Influences (Industrial Revolution & Pre-20th Century)	**6**	**3**	**3**	**12**
GRAND TOTAL					**60**

NAME OF THE SUBJECT :			Introduction to the History of Interior Design
Course code: IDB102			Semester: First
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	3	hrs/week	Theory PA: 40 marks
Tutorial:	0	hrs/week	Practical End Exam: 0marks
Practical:	0	hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit:	3		

RATIONALE

Understanding the historical evolution of interior design is crucial for students entering the field. This course introduces students to key architectural and interior styles from ancient civilizations to the early modern period. By studying historical developments, students will gain insights into design principles, materials, and techniques that continue to influence contemporary interiors. This foundational knowledge will prepare them for advanced studies in interior design history in later semesters.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

1. Understand the significance of historical influences on interior design.
2. Identify key architectural and interior styles from ancient to early modern periods.
3. Recognize the role of cultural, social, and technological factors in shaping design movements.
4. Develop an appreciation for historical ornamentation, motifs, and furniture styles.
5. Apply historical knowledge to contemporary design interpretations.

DETAILED COURSE CONTENT (THEORY) Teaching Scheme: 14 weeks per semester (12 weeks for teaching, 2 weeks for revision & smart classes)

1.0 **INTRODUCTION TO HISTORY OF INTERIOR DESIGN** (**4 Hours | 8 Marks**)
1.1 Importance of studying historical design trends.
1.2 Understanding how culture, geography, and materials influenced design.
1.3 Overview of historical periods and their impact on interior spaces.

2.0 **ANCIENT CIVILIZATIONS (EGYPTIAN, GREEK, ROMAN)** (**8 Hours | 14 Marks**)
2.1 Egyptian interiors: Monumentality, symbolic ornamentation, furniture styles.
2.2 Greek interiors: Harmony, proportion, classical orders, furniture forms.
2.3 Roman interiors: Influence of Greek design, frescoes, mosaics, furniture materials.

3.0 **BUDDHIST, HINDU & ISLAMIC INFLUENCE IN INDIA** (**6 Hours | 12 Marks**)
3.1 Buddhist architecture & interiors: Monasteries, rock-cut caves, simplicity.
3.2 Hindu interiors: Temple architecture, carved motifs, regional styles.
3.3 Islamic interiors: Mughal palaces, geometric patterns, archways, inlay work.

4.0 **MEDIEVAL & RENAISSANCE INTERIORS (EUROPE & INDIA)** (**8 Hours | 14 Marks**)
4.1 Gothic & medieval interiors: Vaults, stained glass, woodwork.
4.2 Renaissance interiors: Revival of classical elements, furniture evolution.
4.3 Indian interiors: Rajput and colonial influences on design.

5.0 **EARLY MODERN INFLUENCES (INDUSTRIAL REVOLUTION & PRE-20TH CENTURY)** (**6 Hours | 12 Marks**)
5.1 Industrial Revolution: Mass production, new materials, shift in aesthetics.
5.2 Arts & Crafts movement: Reaction against industrialization, handcrafted designs.
5.3 Pre-20th-century interiors: Early modernist ideas, emergence of functionality.

INSTRUCTIONAL STRATEGY

- Organize site visits to heritage structures to observe historical design elements firsthand.
- Encourage students to analyze historical case studies and create sketches.
- Use visual presentations, documentaries, and digital resources for better understanding.
- Assign comparative studies between historical and contemporary interior styles.

MEANS OF ASSESSMENT

- Written assignments, quizzes, and short presentations.
- Sketching exercises based on historical styles.
- Mid-semester and end-semester exams evaluating theoretical knowledge.

RECOMMENDED BOOKS

1. *History of Architecture* – Sir Banister Fletcher
2. *Indian Architecture (Hindu & Buddhist Period)* – Satish Grover
3. *Interior Design & Decoration* – Sherrill Whiton
4. *The Great Ages of World Architecture* – G.K. Hiraskar
5. *History of Indian Art* – Sandhya Ketkar & Anil Rao

This course serves as a foundation for deeper exploration of interior design history in future semesters.

(IDB103) FUNDAMENTALS OF BUILDING CONSTRUCTION AND MATERIALS

Sl. No	TOPIC	KNOWLEDGE (DESCRIPTIVE)	COMPREHENSION	APPLICATION (MCQs/Fill in the Blanks)	TOTAL MARKS
1	Introduction to Building Materials	5	4	3	12
2	Basic Elements of Building Construction	6	5	3	14
3	Foundations & Walls	5	4	3	12
4	Doors & Windows	5	4	3	12
5	Roofs & Finishing Materials	4	3	3	10
GRAND TOTAL					**60**

NAME OF THE SUBJECT :			Fundamentals of Building Construction and Materials
Course code: IDB103			Semester: First
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	3	hrs/week	Theory PA: 40 marks
Tutorial:	0	hrs/week	Practical End Exam: 0marks
Practical:	0	hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit:	3		

RATIONALE:

This subject introduces students to the basic materials and construction methods used in building structures. Understanding these materials and their properties is essential for future design and construction work. The course focuses on simple concepts that will form the foundation for more advanced studies in later semesters. Hands-on activities, site visits, and visual demonstrations will help students grasp the practical aspects of construction.

LEARNING OUTCOMES:

After completing this course, students will be able to:

- Identify common building materials such as bricks, stones, wood, and cement.
- Understand basic construction elements like foundations, walls, and roofs.
- Recognize different types of doors and windows used in buildings.
- Learn the importance of safety and durability in construction materials.
- Develop basic drawing skills to represent building components.

DETAILED COURSE CONTENT (THEORY) Teaching Scheme: 14 weeks per semester (12 weeks for teaching, 2 weeks for revision & smart classes)

1.0 **INTRODUCTION TO BUILDING MATERIALS** (**7 Hours | 12 Marks**)

- Understanding natural and man-made building materials.
- Identification and properties of bricks, stones, cement, and timber.
- Importance of selecting the right material for construction.

2.0 **BASIC ELEMENTS OF BUILDING CONSTRUCTION** (**8 Hours | 14 Marks**)

- Components of a building: foundation, walls, floors, roofs, and openings.
- Introduction to construction techniques for simple structures.
- Safety measures in construction.

3.0 **FOUNDATIONS & WALLS** (**7 Hours | 12 Marks**)

- Purpose and types of foundations.
- Basic wall construction methods (brick and stone masonry).
- Common defects in walls and their prevention.

4.0 **DOORS & WINDOWS** (**7 Hours | 12 Marks**)

- Types of doors and windows used in buildings.
- Materials used for making doors and windows.
- Basic joinery in carpentry.

5.0 **ROOFS & FINISHING MATERIALS** (**7 Hours | 10 Marks**)

- Introduction to different types of roofs (flat, sloped, and trussed roofs).
- Common roofing materials and their uses.
- Introduction to wall finishes like plastering and painting.

MEANS OF ASSESSMENT:

- Class assignments and quizzes.
- Mid-term and final exams.
- Small model-making exercises.

RECOMMENDED BOOKS:

1. *Building Materials* – S.K. Sharma & G.C. Mathur
2. *Building Construction* – S.P. Bindra & S.P. Arora
3. *Fundamentals of Building Construction* – Barry
4. *Basic Civil Engineering* – S.S. Bhavikatti

(IDB104) HAND DRAFTING IN INTERIOR DESIGN LAB

Sl. No	TOPIC	TOTAL (PRACTICAL END EXAM)
1	Introduction to Drafting Tools & Techniques	5
2	Geometric & Orthographic Drawings	7
3	Floor Plans & Space Planning	8
4	Basic Elevation, Ceiling Plan & Electrical Plan	7
5	Final Assignment - Hand-Drafted Single Bedroom with Closet	13
Grand Total		**40**

NAME OF THE SUBJECT :			Hand Drafting in Interior Design Lab
Course code: IDB104			Semester: First
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	3		

RATIONALE

Hand drafting is an essential skill for interior designers, forming the basis for accurate visual representation and technical communication. This course focuses on equipping students with the fundamental techniques required to create precise, scaled drawings by hand before transitioning to digital methods. Through a structured progression from basic drafting skills to a comprehensive final project, students will gain confidence in line work, scale, proportion, and spatial understanding. The course culminates in a hand-drafted studio room layout, ensuring that students can apply their knowledge to a real-world interior design scenario.

LEARNING OUTCOMES

By the end of the course, students will be able to:

- Understand and utilize basic hand drafting tools and techniques.
- Produce clean and accurate line work with appropriate line weights.
- Interpret and create architectural symbols, annotations, and dimensions.
- Develop orthographic projections, including plans, elevations, and sections.
- Apply space planning principles to draft a fully detailed **studio room layout** by hand.

COURSE CONTENT

Module 1: Introduction to Drafting Tools & Techniques (9 Hours | 5 Marks)

- Introduction to essential drafting instruments, including T-squares, set squares, compasses, and scales.
- Understanding different line types: thick, thin, dashed, and centerlines, and their uses in technical drawing.
- Practicing lettering and numbering standards for legibility and professional presentation.
- Concept of scale and proportion in interior design drawings.

Module 2: Geometric & Orthographic Drawings (14 Hours | 7 Marks)

- Precision drawing with basic geometric shapes.
- Orthographic projections: drafting plans, elevations, and sections.
- Correct dimensioning, annotations, and standard conventions in interior design drawings.
- Emphasis on accuracy of line work and spatial understanding.

Module 3: Floor Plans & Space Planning (19 Hours | 8 Marks)

- Space planning principles: circulation, ergonomics, and furniture layout.
- Drafting simple residential floor plans with standard architectural symbols for doors, windows, furniture, and materials.
- Balancing aesthetics with functionality through hands-on exercises.

Module 4: Basic Elevation, Ceiling Plan & Electrical Plan (14 Hours | 7 Marks)

- Drafting interior elevations for a single room, focusing on walls, materials, and furniture placement.
- Introduction to ceiling plans, including lighting layouts and decorative ceiling details.
- Basic electrical plans: circuits, switches, and lighting arrangements.

Module 5: Final Assignment - Hand-Drafted Single Bedroom with Closet (16 Hours | 13 Marks)

- Developing a single-bedroom layout with a closet, incorporating all learned skills.
- Drafting a fully detailed floor plan, elevations, ceiling plan, and electrical layout.
- Ensuring proper use of scale, dimensions, and annotations.
- Final drawing includes furniture, lighting, and material representations for a professional-level presentation.
-

PRACTICAL EXERCISES

- **Basic Line Work & Lettering:** Freehand exercises to develop neatness and control.
- **Drafting Practice Sheets:** Focused exercises on line weights, symbols, and dimensioning.
- **Orthographic Projections:** Drawing objects and spaces in plan, elevation, and section views.
- **Residential Floor Plan:** Drafting a small-scale floor plan with standard furniture layout.
- **Interior Elevations & Sections:** Developing detailed representations of walls, partitions, and finishes.
- **Final Project:** Hand-drafting a complete studio room layout, integrating all skills learned.

RECOMMENDED BOOKS

1. *Architectural Drafting and Design* – Alan Jefferis & David Madsen
2. *Interior Design Illustrated* – Francis D.K. Ching
3. *Engineering Drawing & Graphics* – K. Venugopal
4. *Basic Drafting for Interior Designers* – Lydia Sloan Cline

(IDB105) 3D VOLUME AND MODEL MAKING LAB

Sl. No.	Topic	Practical End Exam
1.	Introduction to Model Making	8
2.	Basic Geometric Forms & Volumetric Studies	12
3.	Interior Furniture & Product Model Making	20
Grand Total		**40**

NAME OF THE SUBJECT : 3D VOLUME AND MODEL MAKING LAB			
Course code: IDB105			Semester: First
Teaching Scheme			Total Marks: 100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	4	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	2		

RATIONALE:

Model making is a crucial skill in interior design, allowing students to translate design concepts into tangible three-dimensional forms. This course provides hands-on experience in crafting models that enhance spatial understanding, material exploration, and presentation techniques. By learning to use different materials and tools, students develop precision, creativity, and visualization skills that are essential for professional interior design practice.

LEARNING OUTCOMES:

By the end of this course, students will be able to:

- Understand the importance of model making in interior design.
- Create accurate scaled models of geometric forms, furniture, and interior spaces.
- Work with a variety of model-making materials, including everyday objects.
- Demonstrate craftsmanship, detailing, and finishing techniques.
- Apply learned skills in a final project representing a real interior space.

DETAILED COURSE CONTENT

1. Introduction to Model Making (8 Marks | 10 Hours | 2.5 Weeks)

- Overview of model making and its relevance in interior design.
- Understanding scale, proportion, and measurement techniques.
- Types of models: Concept models, presentation models, and working models.
- Basic cutting, folding, and assembling techniques using paper and board.

2. Basic Geometric Forms & Volumetric Studies (12 Marks | 18 Hours | 4.5 Weeks)

- Constructing 3D compositions with cubes, prisms, and cylinders.
- Exploring mass, volume, and spatial relationships.
- Precision cutting, assembling, and finishing techniques.
- Layering and stacking methods to create dynamic structures.

3. Interior Furniture & Product Model Making (20 Marks | 20 Hours | 5 Weeks)

- Crafting scale models of furniture and small interior elements.
- Material exploration: Toothpicks, ice-cream sticks, matchsticks, and matchboxes.
- Joinery techniques and structural stability.
- Surface detailing and finishing to enhance model realism.
- **Final project:** Creating a detailed interior furniture model with proper scale and proportion.

(IDT101) ASSISTANT CARPENTER – WOODEN FURNITURE – I

Sl. No.	Topic	Marks
1.	Introduction to Carpentry Tools	5
2.	Crafting the Naga Wooden Stool	35
Total		**40**

NAME OF THE SUBJECT : Assistant Carpenter – Wooden Furniture – I			
Course code: IDT101			Semester: First
Teaching Scheme			Total Marks: 100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	3		

RATIONALE:

Woodworking is a fundamental skill for interior designers, allowing them to understand the craftsmanship behind furniture design. This course provides students with a hands-on learning experience in traditional carpentry, focusing on basic woodworking tools, techniques, and processes. The primary objective is to introduce students to the use of carpentry tools and progressively guide them through the construction of a traditional Naga wooden stool. By the end of the course, students will develop practical woodworking skills that enhance their design thinking and appreciation for handcrafted furniture.

LEARNING OUTCOMES:

After completing this course, students will be able to:

- Identify and properly use basic hand tools in carpentry.
- Understand wood selection, cutting, and shaping techniques.
- Develop precision and craftsmanship in woodworking.
- Learn step-by-step construction techniques for furniture making.
- Complete a fully functional, handcrafted Naga wooden stool.
- Demonstrate their understanding of the process in a viva voce session.

DETAILED COURSE CONTENT

1. Introduction to Carpentry Tools (5 Marks)

- Overview of carpentry as a skill in furniture making.
- Identification of hand tools and their uses, including:

  i. Saws (Hand Saw, Crosscut Saw)
  ii. Chisels (Bevel Edge, Mortise Chisel)
  iii. Hammers and Mallets
  iv. Measuring and Marking Tools (Ruler, Try Square, Marking Gauge)
  v. Hand Planes (Jack Plane, Block Plane)
  vi. Files and Rasps

vii. Clamps and Workbench Setup

- Safety procedures and handling of tools.
- Hands-on exercises: Basic wood cutting, shaving, chiseling, and joining techniques.

2. Crafting the Naga Wooden Stool (35 Marks)

- Understanding the structure and design of a traditional Naga stool.
- Material preparation: Selecting and preparing wood pieces.
- Step-by-step stool construction:

  i. Cutting and shaping the seat.
  ii. Creating the stool legs.
  iii. Carving the joints for assembly.
  iv. Fitting, assembling, and securing the parts.
  v. Sanding and smoothing for a polished finish.

- Final detailing and finishing:

  i. Application of natural wood finishes or stains (optional).
  ii. Quality checks and refinements.

- Viva Voce: Explanation of the entire construction process, tools used, and challenges faced.

DETAILED THEORY SYLLABUS – SECOND SEMESTER

(IDB201) INTRODUCTION TO AUTOCAD LAB

Sl. No.	Topic	Marks
1.	Introduction to AutoCAD	4
2.	Creating and Setting Up a New Drawing	6
3.	Basic Drawing Commands	10
4.	Editing and Modifying Drawings	8
5.	Dimensioning, Annotation, and Presentation	5
6.	Final Project - Bedroom Plan in AutoCAD	7
Grand Total		**40**

NAME OF THE SUBJECT : Introduction to AutoCAD			
Course code: IDB201			Semester: Second
Teaching Scheme			Total Marks: 100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	2	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	1		

RATIONALE

In today's **design and construction industry**, proficiency in **computer-aided drafting (CAD)** is an essential skill for interior designers. **AutoCAD** allows professionals to create precise 2D drawings efficiently, making **editing, managing, and presenting designs** easier. This course provides students with **foundational skills** in AutoCAD, enabling them to create **professional 2D architectural and interior drawings**.

By the end of the course, students will be able to:

- Navigate the **AutoCAD interface and tools** effectively.
- Set up **new drawings with proper layers, units, and limits**.
- Use **drawing and modification commands** to create accurate 2D floor plans.
- Organize and manage **drawing files** efficiently.
- Convert their **hand-drafted bedroom layout** from **Semester 1** into a **digitally drafted version in AutoCAD**.

LEARNING OUTCOMES

After completing this course, students will be able to:

- Understand **basic AutoCAD tools, interface, and commands**.
- Create **new drawings** with appropriate settings.
- Develop **2D interior layouts** using accurate linework, layers, and hatching.
- Apply **editing and modification tools** to refine designs.
- Use **dimensioning and text tools** for professional annotation.
- Convert a **hand-drafted bedroom plan** into an **AutoCAD model**.

DETAILED COURSE CONTENT

1. Introduction to AutoCAD (4 Marks | 3 Hours)

- Overview of AutoCAD and its applications in interior design.
- Introduction to AutoCAD interface, toolbars, and menus.
- Understanding coordinate systems and entering commands.
- File organization: Creating folders and subfolders for drawing files.
- **Exercise:** Explore the AutoCAD workspace and create an organized drawing folder.

2. Creating and Setting Up a New Drawing (6 Marks | 4 Hours)

- Starting a new drawing and setting up units, limits, and grid.
- Understanding and applying layers for organized drafting.
- Saving, opening, and managing drawing files.
- Customization of toolbars for workflow efficiency.
- **Exercise:** Set up a new AutoCAD drawing with layers, units, and limits.

3. Basic Drawing Commands (10 Marks | 6 Hours)

- Line, Polyline, and Arc commands.
- Rectangle, Polygon, and Circle tools.
- Introduction to Spline and Ellipse tools.
- Creating hatched areas, Donuts, and Sketch elements.
- **Exercise:** Create a basic interior room layout using the learned commands.

4. Editing and Modifying Drawings (8 Marks | 4 Hours)

- Move, Copy, Rotate, Scale, Trim, Extend.
- Offset, Mirror, Fillet, Chamfer, and Explode.
- Introduction to Object Snaps and Grips for precision editing.
- Creating blocks and groups for efficient drafting.
- **Exercise:** Modify an interior layout using editing tools.

5. Dimensioning, Annotation, and Presentation (5 Marks | 3 Hours)

- Text styles and annotations in AutoCAD.
- Dimensioning tools for accurate measurement representation.
- Introduction to plotting and printing layouts.
- **Exercise:** Add dimensions and annotations to an interior layout.

6. Final Project - Bedroom Plan in AutoCAD (7 Marks | 4 Hours)

- Convert the hand-drafted bedroom plan from Hand Drafting in Interior Design (Semester 1) into AutoCAD.
- Apply layers, dimensions, hatching, and annotations.
- Prepare the final drawing for submission and presentation.

(IDB202) INTRODUCTION TO INTERIOR SERVICES

Sl. No	TOPIC	KNOWLEDGE (DESCRIPTIVE)	COMPREHENSION	APPLICATION (MCQs/Fill in the blanks)	TOTAL
1	Water Supply and Drainage	8	6	4	18
2	Lighting and Electrical Layouts	8	6	4	18
3	Ventilation and Air Conditioning	6	5	3	14
4	Fire Safety Basics	5	3	2	10
GRAND TOTAL					60

NAME OF THE SUBJECT :			Introduction to Interior Services
Course code: IDB202			Semester: second
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	2	hrs/week	Theory PA: 40 marks
Tutorial:	0	hrs/week	Practical End Exam: 0marks
Practical:	0	hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit:	2		

RATIONALE

Interior spaces are not just about aesthetics; they also need functional systems to ensure comfort, safety, and efficiency. This subject introduces students to the basic services used in interior spaces, including water supply, drainage, electrical systems, lighting, ventilation, air conditioning, and fire safety.

As beginners, students will develop a fundamental understanding of these services and their applications in residential interiors. This knowledge will serve as a foundation for more technical subjects in future semesters.

LEARNING OUTCOMES

After completing this course, students will be able to:

- Understand the role of basic building services in interior spaces.
- Recognize and describe plumbing, drainage, and sanitary systems in residential buildings.
- Identify different types of lighting and their applications in interiors.
- Understand basic electrical layouts and wiring methods.
- Learn about ventilation and air conditioning systems and their importance in enclosed spaces.
- Identify basic fire safety measures in buildings.

MODULE 1: WATER SUPPLY AND DRAINAGE (18 Marks | 6 Hours)

- **Introduction to Plumbing Systems:**
  - Importance of water supply in interiors.
  - Types of plumbing pipes (PVC, GI, CI, CPVC).
- **Sanitary Fixtures and Fittings:**
  - Washbasins, sinks, bathtubs, showers, urinals, WCs.
  - Basic accessories: Soap trays, towel rods, shower curtains.
- **Drainage Basics:**
  - Principles of drainage and traps.
  - Septic tanks and their importance in residential buildings.
- **Exercise:** Sketch a simple water supply and drainage layout for a small home.

MODULE 2: LIGHTING AND ELECTRICAL LAYOUTS (18 Marks | 7 Hours)

- **Introduction to Lighting:**
  - Natural vs. Artificial lighting.
  - Types of artificial lighting (Incandescent, Fluorescent, LED).
- **Lighting for Different Spaces:**
  - Residential areas (bedroom, kitchen, living room).
  - Basics of lighting for commercial interiors.
- **Basic Electrical Layouts:**
  - Understanding symbols and wiring plans.
  - Types of wiring systems: Open, concealed, conduit.
  - Common electrical fixtures (switches, sockets, circuit breakers).
- **Exercise:** Identify and match lighting types with different interior spaces.

MODULE 3: VENTILATION AND AIR CONDITIONING (14 Marks | 6 Hours)

- **Importance of Ventilation:**
  - Difference between natural and mechanical ventilation.
  - Simple ventilation methods used in homes.
- **Introduction to Air Conditioning:**
  - Basic types: Window AC, Split AC.
  - Where and when to use different AC systems.
  - Energy efficiency in air conditioning.
- **Exercise:** Identify ventilation solutions for a given space.

MODULE 4: FIRE SAFETY BASICS (10 Marks | 5 Hours)

- **Basic Fire Safety Measures in Buildings:**
  - Fire alarms and smoke detectors.
  - Fire extinguishers and their types.
  - Sprinkler systems and emergency exits.
- **Fire Safety Planning in Residential Interiors:**
  - Placement of fire safety equipment.
  - Fire escape routes and evacuation plans.

- **Exercise:** Identify fire safety features in a given floor plan.

TEXTBOOKS & REFERENCES

Textbooks:

1. *Water Supply and Sanitary Installations* – Anand Chintaman Panchdhari
2. *Lighting for Interior Design* – Malcolm Innes
3. *Modern Basic Electrical and House Wiring* – M. Lotia

Reference Books:

1. *National Building Code (NBC) Guidelines*
2. *Handbook of Building Engineers in Metric Systems*
3. *Fire Safety Engineering* – Jain & Agrawal

TEACHING METHODOLOGY

- **Lectures** with real-life examples.
- **Basic site visits** to observe plumbing and electrical systems.
- **Sketching and drafting exercises** for basic layouts.
- **Case studies on lighting, ventilation, and fire safety**.

(ID201) HISTORY OF INTERIOR DESIGN – I

Sl. No	Topic	Knowledge (Descriptive)	Comprehension	Application (MCQs/Fill in the blanks)	Total Marks
1	Interiors of Ancient Civilizations *(Greek & Roman Styles in Interior Design)*	9	6	4	19
2	Interiors of Indian Dynasties *(Buddhist, Hindu & Islamic Architectural Interiors)*	8	6	4	18
3	Asian Interiors *(Chinese & Japanese Aesthetics in Interior Design)*	6	5	3	14
4	Early Modern Influences on Interior Design *(Renaissance, Industrial Revolution, Early 20th Century Movements)*	5	4	3	9
GRAND TOTAL					60

NAME OF THE SUBJECT :			History of Interior Design – I
Course code: ID201			Semester: Second
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	3	hrs/week	Theory PA: 40 marks
Tutorial:	0	hrs/week	Practical End Exam: 0marks
Practical:	0	hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit:	3		

RATIONALE

The history of interior design provides valuable insights into the evolution of styles, materials, and spatial organization. Understanding past trends and innovations helps designers make informed design decisions while appreciating the craftsmanship and cultural influences that shaped different eras. This course introduces students to the historical progression of interior design, focusing on the interiors of ancient civilizations, Indian dynasties, Asian aesthetics, and early modern influences.

LEARNING OUTCOMES

By the end of this course, students will be able to:

- Identify key interior design characteristics from different historical periods.
- Analyze how cultural, political, and technological factors influenced interior spaces.
- Recognize furniture styles, decorative motifs, and materials used in various civilizations.
- Illustrate historical interior styles through sketches and design studies.
- Develop a foundation for historical research and its application in modern interior design.

COURSE DETAILS

Module 1: Interiors of Ancient Civilizations (Greek & Roman Styles in Interior Design) (19 Marks | 11 Hours)

- Overview of Greek and Roman architecture.
- Interior characteristics: columns, motifs, color palettes, and materials.
- Greek furniture: klismos chairs, kline beds, and wooden chests.
- Roman interiors: vaults, domes, frescoes, and mosaics.
- Influence on modern classical interior styles.

Module 2: Interiors of Indian Dynasties (Buddhist, Hindu & Islamic Architectural Interiors) (18 Marks | 11 Hours)

- **Buddhist Interiors:** Stupas, monasteries, rock-cut caves (Ajanta, Ellora).
- **Hindu Temple Interiors:** Intricate carvings, pillars, sanctum sanctorum.
- **Islamic Interiors:** Mughal palaces, domes, jali work, floral ornamentation.
- **Furniture & Decorative Elements:** Persian carpets, wooden inlays, brass fittings.
- **Traditional vs. Modern Indian Interiors:** Adaptation of historical elements.

Module 3: Asian Interiors (Chinese & Japanese Aesthetics in Interior Design) (14 Marks | 7 Hours)

- **Chinese Interiors:** Feng Shui principles, lacquered furniture, calligraphy, screens.
- **Japanese Interiors:** Zen aesthetics, tatami mats, sliding doors, minimalism.
- **Materials & Color Schemes:** Silk, bamboo, wood, paper screens.
- **Influence on contemporary Asian-inspired interiors.**

Module 4: Early Modern Influences on Interior Design (Renaissance, Industrial Revolution, Early 20th Century Movements) (9 Marks | 7 Hours)

- **Renaissance Interiors:** Italian palaces, symmetry, ornate detailing.
- **Industrial Revolution:** Mass production, cast iron, factory-made furniture.
- **Early 20th Century Movements:**
    - **Art Nouveau:** Organic forms, stained glass.
    - **Bauhaus:** Minimalism, functional furniture.
    - **Modernism:** Steel & glass, open spaces.
- **Impact of these styles on contemporary interiors.**

INSTRUCTIONAL STRATEGY:

- Site visits to historical structures and museums.
- Sketching & analysis of historical interior elements.
- Audio-visual presentations on historical interiors and restoration projects.
- Guest lectures from historians, conservationists, or interior designers.
- Group discussions on the relevance of historical interiors in modern design.

RECOMMENDED BOOKS:

1. *History of Interior Design* – John Pile & Judith Gura
2. *The History of Architecture and Interior Design* – Robbie G. Blakemore
3. *Indian Architecture (Hindu and Buddhist Periods)* – Percy Brown
4. *Chinese and Japanese Interiors* – George Nelson
5. *The Great Ages of World Architecture* – G.K. Hiraskar

(ID202) BUILDING CONSTRUCTION AND MATERIALS – I

Sl. No	Topic	Knowledge (Descriptive)	Comprehension	Application (MCQs/Fill in the blanks)	Total Marks
1	Elementary Building Materials	4	4	2	10
2	Timber	4	2	3	9
3	Construction	5	5	2	12
4	Brick Foundations & D.P.C.	4	2	2	9
5	Arches & Lintels	3	2	3	8
6	Doors & Windows	3	3	2	8
7	Types of Roofs	2	1	1	4
Grand Total					60

NAME OF THE SUBJECT :	BUILDING CONSTRUCTION AND MATERIALS – I
Course code: ID202	Semester: Second
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 1 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit: 1	

RATIONALE:

A strong foundation in building materials and construction techniques is essential for interior designers and architects. This course introduces fundamental building materials such as bricks, stone, timber, cement, and concrete, along with their properties, applications, and construction principles. Understanding these materials helps designers make informed choices regarding structural integrity, durability, aesthetics, and sustainability.

This subject also covers basic construction components like foundations, masonry, arches, lintels, doors, windows, and roofing systems. Practical exposure through site visits, lab testing, and hands-on exercises will enhance students' ability to identify, analyze, and apply materials in real-world design scenarios.

LEARNING OUTCOMES:

By the end of this course, students will be able to:

- Classify and identify different types of stones, bricks, and other building materials.
- Analyze the properties and uses of cement, concrete, and timber.
- Identify defects in timber and suggest appropriate treatment methods.
- Understand construction principles related to foundations, masonry, lintels, doors, windows, and roofs.
- Select appropriate materials for wall paneling, false ceilings, and finishes.
- Demonstrate practical knowledge through hands-on material testing and construction drawing assignments.

DETAILED COURSE STRUCTURE

Module 1: Introduction to Building Materials (10 Marks | 2 Hours)

- Properties and uses of brick, stone, lime, cement, and concrete.
- Manufacturing process of bricks and cement.
- Characteristics of good-quality building materials.
- Concrete mix ratios and basic field tests.

Module 2: Timber in Construction (9 Marks | 2 Hours)

- Classification of timber: Softwood vs. Hardwood.
- Defects & decay in timber (knots, warping, fungal attack).
- Seasoning & preservation methods for durability.
- Common varieties used in construction (Teak, Sal, Deodar, etc.).

Module 3: Fundamentals of Building Construction (12 Marks | 2 Hours)

- Basic components of a building: Foundation, Superstructure, Openings, Roofs.
- Terminology & nomenclature in construction drawings.
- Brick masonry bonds: Stretcher bond, English bond, Flemish bond.
- Special masonry techniques: Toothing, Brick-on-Edge, Brick-on-End.

Module 4: Foundations & Damp-Proofing Course (DPC) (9 Marks | 2 Hours)

- Definition and types of foundations: Strip, raft, and isolated footings.
- Timbering for foundation trenches.
- Purpose and materials used for DPC.
- Construction techniques to prevent dampness in buildings.

Module 5: Arches & Lintels (8 Marks | 1 Hour)

- Definition and components of arches.
- Construction methods for brick & stone arches.
- Types of lintels: Timber, stone, steel, RCC lintels.

Module 6: Doors & Windows (8 Marks | 1 Hour)

- Basic carpentry joints used in door/window construction.
- Types of doors: Battened, Paneled, Flush doors.
- Types of windows: Casement, Sliding, Fixed, Bay windows.
- Hardware and fittings: Hinges, Handles, Latches, Locks.

Module 7: Roofing Systems (4 Marks | 2 Hours)

- Introduction to roofing materials: Thatch, slate, tiles, RCC.
- Roof types: Flat, Lean-to, Gable, Hip, Couple Roof.
- Suitability of roof types based on climatic conditions.

PRACTICAL EXERCISES:

1. Identification of common building materials (brick, stone, timber, cement).
2. Masonry bonds: Construct sample models of stretcher, English & Flemish bonds.
3. Visual examination of different stone types used in construction.
4. Brick absorption & efflorescence test.
5. Identification of timber varieties (Teak, Sal, Chir, Deodar, Kail, Hollock).
6. Market survey report on waterproofing materials, paints, steel, and timber.

Note: A minimum of 10 construction drawing sheets should be submitted as coursework.

INSTRUCTIONAL STRATEGY:

- Hands-on Learning: Teachers must supplement theory with physical samples of materials.
- Field Visits: To manufacturing units, construction sites, and material suppliers.
- Practical Demonstrations: Live demonstrations of bonding techniques, timber joints, and DPC application.
- Material Museum: Students should collect samples of materials for a mini-exhibition.
- Use of Visual Aids: Presentations, 3D models, and VR walkthroughs for better understanding.

RECOMMENDED BOOKS:

1. *Building Construction (Vol. I-IV)* – W.B. McKay (Longman Publications)
2. *Building Construction* – S.P. Bindra & S.P. Arora (Dhanpat Rai & Co.)
3. *Building Construction* – B.C. Punmia (Laxmi Publications)
4. *Construction of Buildings (Vol. I & II)* – Barry
5. *Building Materials* – Rangwala (Charotar Publishing)
6. *Engineering Materials* – Surendra Singh (Vikas Publishing)

(ID203) INTERIOR DESIGN I – RESIDENCES LAB

Sl. No.	Topic	Progressive Assignment
1	Case Study & Problem Analysis	5
2	Concept Development & Mood Boards	5
3	Technical Drawings (Plan, Elevations, 3D Views)	24
4	Material Board & Budgeting	6
Total		40

NAME OF THE SUBJECT :			Interior Design I – Residences Lab
Course code: IDB203			Semester: Second
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	3		

RATIONALE:

The ability to design functional, aesthetic, and user-centered residential spaces is a fundamental skill for interior designers. This course provides hands-on experience in conceptualizing, planning, and executing interior design solutions for residences. The focus will be on understanding client needs, developing creative concepts, preparing technical drawings, and selecting appropriate materials. Through a structured approach, students will gain practical knowledge and technical skills essential for professional practice.

LEARNING OUTCOMES:

By the end of the course, students will be able to:

- Conduct case studies and identify key design requirements for residential interiors.
- Develop conceptual design solutions based on themes, client needs, and functional requirements.
- Create professional-level technical drawings, including plans, elevations, and 3D views.
- Select and present suitable materials and finishes for residential projects.
- Understand the basics of budgeting and cost estimation for interior projects.

DETAILED COURSE CONTENT

Module 1: Case Study & Problem Analysis (5 Marks | 7 Hours)

- Understanding residential space requirements and user needs.
- Conducting market surveys and researching client preferences.
- Identifying key design constraints, opportunities, and functional aspects of residential interiors.
- Analyzing the merits and demerits of existing residential designs.
- Creating a problem statement for a design project.

Module 2: Concept Development & Mood Boards (5 Marks | 7 Hours)

- Developing theme-based design concepts for residential interiors.
- Exploring space planning techniques and zoning strategies.
- Creating mood boards that represent styles, colors, materials, and ambiance.
- Producing area analysis diagrams to understand spatial relationships.
- Sketching preliminary design ideas and visual representations.

Module 3: Technical Drawings – Plan, Elevations, & 3D Views (24 Marks | 40 Hours)

- Drafting detailed floor plans with proper dimensions and annotations.
- Creating interior elevations and sectional drawings to illustrate spatial layouts.
- Developing perspective views and 3D visualizations for better representation.
- Understanding scale, proportion, and presentation techniques.
- Using software tools (AutoCAD, SketchUp, or hand-drafting) for precision.
- Incorporating design elements like lighting, furniture placement, and textures in drawings.

Module 4: Material Board & Budgeting (6 Marks | 10 Hours)

- Selecting appropriate materials, finishes, and furniture for residential spaces.
- Preparing material boards with samples and specifications.
- Understanding cost estimation and preparing a preliminary budget.
- Justifying material choices based on aesthetics, functionality, and sustainability.
- Presenting material boards effectively for client approval.

INSTRUCTIONAL STRATEGY:

- Encourage students to document case studies and create a portfolio showcasing their work.
- Utilize market surveys and real-world client scenarios to enhance learning.
- Use hand sketching, drafting software (AutoCAD, SketchUp, etc.), and physical models for design development.
- Conduct site visits and material workshops to provide exposure to practical applications.
- Implement peer reviews and presentations to improve design communication skills.

MEANS OF ASSESSMENT:

- Portfolio Submission (Case Study, Mood Boards, Concept Sheets)
- Technical Drawing Evaluation (Plans, Elevations, Perspectives)
- Material Board Presentation
- End-Semester Practical Exam

RECOMMENDED BOOKS:

1. *Time Saver Standards for Interior Design and Space Planning* – Joseph De Chiara, Julius Panero
2. *Architects' Data* – Ernst Neufert
3. *Space, Form, and Order* – D.K. Ching
4. *The Interior Design Reference & Specification Book* – Chris Grimley, Mimi Love

Sl. No	Topic	**Progressive Assignment**
1	Construction	15
2	Brick Foundations & D.P.C.	10
3	Arches & Lintels	5
4	Doors & Windows	10
Grand Total		40

NAME OF THE SUBJECT : BUILDING CONSTRUCTION AND MATERIALS – I LAB			
Course code: ID204			Semester: Second
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	4	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	2		

RATIONALE:

A strong foundation in building materials and construction techniques is essential for interior designers and architects. This course introduces fundamental building materials such as bricks, stone, timber, cement, and concrete, along with their properties, applications, and construction principles. Understanding these materials helps designers make informed choices regarding structural integrity, durability, aesthetics, and sustainability.

This subject also covers basic construction components like foundations, masonry, arches, lintels, doors, windows, and roofing systems. Practical exposure through site visits, lab testing, and hands-on exercises will enhance students' ability to identify, analyze, and apply materials in real-world design scenarios.

LEARNING OUTCOMES:

By the end of this course, students will be able to:

- Classify and identify different types of stones, bricks, and other building materials.
- Analyze the properties and uses of cement, concrete, and timber.
- Identify defects in timber and suggest appropriate treatment methods.
- Understand construction principles related to foundations, masonry, lintels, doors, windows, and roofs.
- Select appropriate materials for wall paneling, false ceilings, and finishes.
- Demonstrate practical knowledge through hands-on material testing and construction drawing assignments.

COURSE DETAILS

MODULE 1. Fundamentals of Building Construction (15 Marks | 14 Hours)

- Basic components of a building: Foundation, Superstructure, Openings, Roofs.
- Terminology & nomenclature in construction drawings.
- Brick masonry bonds: Stretcher bond, English bond, Flemish bond.
- Special masonry techniques: Toothing, Brick-on-Edge, Brick-on-End.

MODULE 2. Foundations & Damp-Proofing Course (DPC) (10 Marks | 10 Hours)

- Definition and types of foundations: Strip, raft, and isolated footings.
- Timbering for foundation trenches.
- Purpose and materials used for DPC.
- Construction techniques to prevent dampness in buildings.

MODULE 3. Arches & Lintels (5 Marks | 6 Hours)

- Definition and components of arches.
- Construction methods for brick & stone arches.
- Types of lintels: Timber, stone, steel, RCC lintels.

MODULE 4. Doors & Windows (10 Marks | 8 Hours)

- Basic carpentry joints used in door/window construction.
- Types of doors: Battened, Paneled, Flush doors.
- Types of windows: Casement, Sliding, Fixed, Bay windows.
- Hardware and fittings: Hinges, Handles, Latches, Locks.

PRACTICAL EXERCISES (10 Hours)

- Identification of common building materials (brick, stone, timber, cement).
- Masonry bonds: Construct sample models of stretcher, English & Flemish bonds.
- Visual examination of different stone types used in construction.
- Brick absorption & efflorescence test.
- Identification of timber varieties (Teak, Sal, Chir, Deodar, Kail, Hollock).
- Market survey report on waterproofing materials, paints, steel, and timber.

Note: A minimum of **10 construction drawing sheets** should be submitted as coursework.

INSTRUCTIONAL STRATEGY:

- Hands-on Learning: Teachers must supplement theory with physical samples of materials.
- Field Visits: To manufacturing units, construction sites, and material suppliers.
- Practical Demonstrations: Live demonstrations of bonding techniques, timber joints, and DPC application.
- Material Museum: Students should collect samples of materials for a mini-exhibition.
- Use of Visual Aids: Presentations, 3D models, and VR walkthroughs for better understanding.

RECOMMENDED BOOKS:

7. *Building Construction (Vol. I-IV)* – W.B. McKay (Longman Publications)
8. *Building Construction* – S.P. Bindra & S.P. Arora (Dhanpat Rai & Co.)
9. *Building Construction* – B.C. Punmia (Laxmi Publications)
10. *Construction of Buildings (Vol. I & II)* – Barry
11. *Building Materials* – Rangwala (Charotar Publishing)
12. *Engineering Materials* – Surendra Singh (Vikas Publishing)

(IDT201) ASSISTANT CARPENTER – WOODEN FURNITURE – II

Sl. No.	Topic	Marks
1	Advanced Carpentry Tools & Techniques	5
2	Constructing the Study Table	35

NAME OF THE SUBJECT :	Assistant Carpenter – Wooden Furniture – II
Course code: IDT201	Semester: Second
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 0 hrs/week	Theory PA: 0 marks
Tutorial: 0 hrs/week	Practical End Exam: 40 Marks
Practical: 6 hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit: 3	

RATIONALE:

Building upon the foundational woodworking skills acquired in Assistant Carpenter – Wooden Furniture – I, this course advances students' carpentry knowledge by introducing more complex joinery and construction techniques. Students will apply their skills to create a study table for two, reinforcing their understanding of precision cutting, joinery, structural stability, and finishing techniques. By completing this project, students will gain hands-on experience in furniture making, enhancing their craftsmanship and problem-solving abilities in woodworking.

LEARNING OUTCOMES:

After completing this course, students will be able to:

- Utilize advanced carpentry tools for precision woodworking.
- Understand the principles of furniture design, including stability and durability.
- Apply mortise and tenon joints, dowel joints, and other joinery techniques.
- Construct a study table for two, following step-by-step assembly.
- Perform wood finishing techniques for durability and aesthetics.
- Demonstrate their understanding of the process through a viva voce session.

DETAILED COURSE CONTENT

1. Advanced Carpentry Tools & Techniques (5 Marks)

- Review of basic hand tools and introduction to advanced tools:
  i. Tenon saw, coping saw, and keyhole saw
  ii. Dovetail and mortise chisels
  iii. Hand drills and auger bits
  iv. Wooden clamps and vise usage
  v. Surface planing and leveling techniques
- Introduction to joinery techniques:
  i. Mortise and tenon joints
  ii. Dowel joints
  iii. Housing joints
- Safety measures when working with large wooden panels.

- Hands-on exercises: Practicing different joints on scrap wood.

2. Constructing the Study Table (35 Marks)

- Understanding the structure and design of a study table for two.
- Material preparation: Selecting, measuring, and cutting wood.
- Step-by-step table construction:
  i. Crafting the tabletop: Cutting and joining wooden panels.
  ii. Creating sturdy table legs and cross-supports.
  iii. Constructing the drawer frame and supports.
  iv. Making and assembling drawers using sliding joints.
  v. Attaching all components for structural stability.
- Final detailing and finishing:
  i. Sanding for a smooth finish.
  ii. Applying natural stains or protective coatings.
  iii. Checking for stability and making refinements.
- Viva Voce:
  - Explanation of the entire construction process.
  - Demonstration of joinery techniques used.
  - Discussion of challenges faced and solutions applied.

DETAILED THEORY SYLLABUS – THIRD SEMESTER

(IDT301) INTERIOR SERVICES – I (ELECTRICAL AND PLUMBING)

Sl. No.	Topic	Knowledge (Descriptive)	Comprehension	Application (MCQs/Fill in the blanks)	Total Marks
1	Water Supply and Drainage	12	8	5	25
2	Lighting and Electrical Plans	10	9	6	25
3	Communication Systems	5	3	2	10
Total					60

NAME OF THE SUBJECT :	Interior Services – I (Electrical & Plumbing)
Course code: ID301	Semester: Third
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 2 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit: 2	

RATIONALE:

In interior design, building services play a crucial role in ensuring functionality, comfort, and safety. This course provides students with an in-depth understanding of essential services such as water supply, drainage, electrical layouts, lighting, and communication systems. By learning about their types, characteristics, applications, and installation methods, students will be able to make informed decisions and integrate these services seamlessly into their design projects.

The course emphasizes practical knowledge, enabling students to analyze and select appropriate systems for various projects. By the end of this course, students will develop the ability to incorporate efficient service solutions while maintaining aesthetic appeal in residential and commercial spaces.

LEARNING OUTCOMES:

After completing this course, students will be able to:

- Understand the role of various services in building design and functionality.
- Study and illustrate the details of water supply and drainage systems.
- Apply knowledge of thermal and acoustic insulation techniques.
- Create and interpret electrical layouts for different spaces.
- Select appropriate sanitary and electrical fixtures for optimal performance.
- Gain insights into different lighting systems and their applications.
- Understand the requirements of communication systems within a built environment.
- Study firefighting equipment and security systems for enhanced safety.

DETAILED COURSE CONTENT

MODULE 1: WATER SUPPLY AND DRAINAGE (10 Hours | 25 Marks)

- Basics of water supply: Hot and cold-water systems.
- Types and sizes of pipes, materials used (PVC, GI, CI, etc.).
- Sanitary fixtures: Water closets (Indian & European), sinks, bathtubs, washbasins, bidets, urinals, etc.
- Toilet accessories: Soap trays, towel rods, shower panels, bath enclosures, sensor-based fittings.
- Drainage principles: Materials for drains, types of traps, septic tanks, and their functioning.

MODULE 2: LIGHTING AND ELECTRICAL LAYOUTS (10 Hours | 25 Marks)

- Types of lighting systems: Incandescent, fluorescent, LED, and their applications.
- Lighting design principles: Matching light to different spaces (residential & commercial).
- Preparation of electrical layouts with symbolic representation as per IS: 962/1967.
- Understanding different wiring systems, conduit types, and their uses.
- Selection of appropriate electrical fixtures for interior spaces.

MODULE 3: COMMUNICATION SYSTEMS (4 Hours | 10 Marks)

- Basics of communication networks in buildings.
- Telephone, intercom, PBX, and VoIP systems.
- Optical fiber cables and Wi-Fi networking.
- Security systems: CCTV, biometric access, alarm systems.

RECOMMENDED BOOKS:

1. *Water Supply and Sanitary Installations* – Anand Chintaman Panchdhari, New Age International Pvt. Ltd.
2. *Handbook of Designing and Installation Services in High-Rise Building Complexes* – Er. B.K. Jain, Khanna Publishers.
3. *Plumbing and Sanitation (Hindi Edition)* – S.K. Jain and Amit Aggarwal, Bhartiye Technical Publications.
4. *Modern Basic Electrical and House Wiring Servicing* – M. Lotia, BPB Publications.
5. *Lighting for Interior Design* – Malcolm Innes, Laurence King Publishing.

(IDT302) HISTORY OF INTERIOR DESIGN – III

Sl. No.	Topic	Knowledge (Descriptive)	Comprehension	Application (MCQs/Fill in the blanks)	Total Marks
1.	Ancient Civilizations: Egyptian, Mesopotamian & Greek Interiors	15	10	5	30
2.	Roman Period & Middle Ages	15	10	5	30
Total					60

NAME OF THE SUBJECT :	History of Interior Design – II
Course code: ID302	Semester: Third
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 3 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit: 3	

RATIONALE:

A thorough understanding of historical interior design is essential for developing a strong design foundation. This course explores key historical influences from ancient civilizations to the Middle Ages, examining their impact on modern interiors. By analyzing the evolution of design elements, materials, and furniture styles, students will gain valuable insights into traditional craftsmanship and cultural aesthetics that continue to inspire contemporary interior design.

LEARNING OUTCOMES:

By the end of this course, students will be able to:

1. Identify and analyze interior design elements from ancient civilizations to the Middle Ages.
2. Understand the impact of social, cultural, and artistic movements on interior spaces.
3. Recognize key furniture styles, materials, and decorative motifs used in historical interiors.
4. Develop a critical appreciation of historical influences on modern interior design.

DETAILED COURSE CONTENT

MODULE 1: ANCIENT CIVILIZATIONS – EGYPTIAN, MESOPOTAMIAN & GREEK INTERIORS

(**18 Hours | 30 Marks**)

- Evolution of interior spaces and architectural influences.
- Characteristic furniture: Folding furniture, fitted furniture, and Greek wooden furniture (Klismos chairs, couches, stools).
- Use of materials, motifs, and decorative elements in interior design.

MODULE 2: ROMAN PERIOD & MIDDLE AGES (**18 Hours | 30 Marks**)

- Development of Roman furniture: Chairs, stools, couches, and decorative elements.
- Transition from early medieval to Romanesque and Gothic styles.
- Influence of religious, cultural, and artistic movements on interior spaces.

TEXTBOOKS & REFERENCES:

Textbooks:

1. *Interior Design* – Ahmed A. Kasu, Ashish Book Centre, Mumbai
2. *History of Architecture* – Sir Banister Fletcher, CBS Publishers

Reference Books:

1. *Interior Design & Decoration* – Premavathy Seetharaman, CBS Publishers
2. *Architecture: Form, Space & Order* – D.K. Ching, John Wiley
3. *Interior Design Course* – Mary Gilliat Coyran, Octopus Ltd., London
4. *Interior Design & Decoration* – Sherril Whiton, Prentice Hall
5. *Time Saver Standards for Interior Design* – Joseph De Chiara, McGraw Hill

(IDT303) BUILDING CONSTRUCTION & MATERIALS – II

Sl. No	Topic	Knowledge (Descriptive)	Comprehension	Application (MCQs/Fill in the blanks)	Total Marks
1.	Doors & Windows	10	4	2	16
2.	Movable Partitions	8	3	1	12
3.	Soundproof Design	6	3	1	10
4.	False Ceilings	8	3	1	12
5.	Movable Furniture	6	3	1	10
6.	Built-in Furniture	6	3	1	10
TOTAL					**60**

NAME OF THE SUBJECT :	Building Construction & Materials – II
Course code: ID303	Semester: Third
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 2 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit: 2	

RATIONALE:

A diploma student of Interior Design must develop a strong understanding of construction materials and systems used in interior spaces. This course provides practical knowledge on doors, windows, partitions, ceilings, and furniture design, ensuring students gain expertise in technical detailing, construction methods, and material applications.

LEARNING OUTCOMES:

Upon completing this course, students will be able to:

1. Identify and understand various construction materials and their use in interior spaces.
2. Learn the planning and detailing of soundproof cabins with acoustical treatments.
3. Draw and comprehend different types of doors and windows, including modern systems.
4. Understand false ceiling construction, support methods, and surface finishes.
5. Develop technical knowledge of movable furniture and built-in furniture systems.

DETAILED COURSE CONTENT:

MODULE 1: DOORS & WINDOWS (6 Hours | 16 Marks)

- Types of Doors: Aluminum and steel doors, swing doors, pivot doors, revolving doors, and shop front windows.
- Windows: Aluminum, steel, and uPVC windows with grills.
- Construction & Materials: Sectional detailing, hardware fittings, and joinery methods.

MODULE 2: MOVABLE PARTITIONS (4 Hours | 12 Marks)

- Types: Sliding and folding partitions, collapsible shutters, rolling shutters.
- Mechanisms & Detailing: Track systems, space-saving solutions, and material options.
- Applications: Commercial, residential, and hospitality interiors.

MODULE 3: SOUNDPROOF DESIGN (4 Hours | 10 Marks)

- Fundamentals of Acoustics: Sound absorption, reflection, and transmission.
- Acoustic Treatments: Walls, floors, doors, and windows—materials and installation methods.
- Designing a Soundproof Cabin: Planning considerations and technical solutions.

MODULE 4: FALSE CEILINGS (**4 Hours | 12 Marks**)

- Types of False Ceilings: Grid, gypsum, POP, metal, stretch fabric, and wooden ceilings.
- Support Methods: Suspension systems, framework, and integration with lighting and HVAC.
- Finishing Techniques: Surface treatments, paint, wallpaper, texture finishes.

MODULE 5: MOVABLE FURNITURE (**3 Hours | 10 Marks**)

- Definition & Importance: Adaptable, lightweight, and space-saving designs.
- Types: Foldable chairs, expandable tables, modular sofas, and multipurpose storage units.
- Material Considerations: Wood, metal, plastic, and innovative materials.

MODULE 6: BUILT-IN FURNITURE & FIXTURES (**3 Hours | 10 Marks**)

- Concept & Benefits: Space optimization, seamless aesthetics, and durability.
- Design & Detailing: Wardrobes, study units, wall-mounted storage, and kitchen cabinets.
- Installation Methods: Fixed joinery, concealed fittings, and modular configurations.

NOTE:

The course will emphasize studio-based learning, where students will actively prepare technical drawings, construction details, and execution drawings. Theoretical concepts will be covered before practical drafting sessions.

RECOMMENDED BOOKS:

1. *Modular Kitchen Planning and Designing Guide* – Gopal Dwivedi (Notion Press)
2. *Door and Window Design* – Antonio Corcuera (TeNeues Media GmbH & KG, USA

(ID304) INTERIOR DESIGN III – RESTAURANTS LAB

Sl. No.	Topic	Progressive Assignment
1	Case Study & Problem Analysis	5
2	Concept Development & Mood Boards	5
3	Technical Drawings (Plan, Elevations, 3D Views)	24
4	Material Board & Budgeting	6
Total		40

NAME OF THE SUBJECT :			Interior Design III - Restaurant Lab
Course code: ID304			Semester: Third
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 Vmarks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	3		

RATIONALE:

Designing functional and aesthetically pleasing restaurant spaces requires a deep understanding of user experience, brand identity, and operational efficiency. This course provides hands-on training in conceptualizing, planning, and executing interior design solutions for restaurants. Students will explore spatial planning, thematic design, technical detailing, and material selection while considering customer behaviour, service flow, and ambiance. The course bridges creativity with functionality, preparing students for real-world hospitality design challenges.

LEARNING OUTCOMES:

By the end of the course, students will be able to:

- Conduct case studies and identify key design considerations for restaurant interiors.
- Develop theme-based design concepts that align with brand identity and customer experience.
- Create professional-level technical drawings, including floor plans, elevations, and 3D views.
- Select and present suitable materials, furniture, and lighting for restaurant interiors.
- Understand the basics of budgeting and cost estimation for restaurant projects.

DETAILED COURSE CONTENT

MODULE 1: CASE STUDY & PROBLEM ANALYSIS (8 Hours | 5 Marks)

- Understanding restaurant typologies (fine dining, casual dining, cafés, QSRs, etc.).
- Conducting market surveys and studying customer preferences.
- Analyzing service flow, seating layouts, and operational efficiency.
- Identifying brand positioning and thematic inspirations.
- Evaluating existing restaurant designs—merits and demerits.
- Creating a problem statement for a restaurant design project.

MODULE 2: CONCEPT DEVELOPMENT & MOOD BOARDS (8 Hours | 5 Marks)

- Developing theme-based restaurant design concepts.
- Exploring spatial zoning strategies (dining, kitchen, waiting areas, bar, etc.).
- Creating mood boards with colors, textures, furniture, and lighting schemes.
- Producing customer experience diagrams for seating arrangements.
- Sketching preliminary design ideas and visual representations.

MODULE 3: TECHNICAL DRAWINGS – PLAN, ELEVATIONS, & 3D VIEWS (40 Hours | 24 Marks)

- Drafting detailed restaurant floor plans with circulation and service areas.
- Creating interior elevations and sectional drawings for spatial layouts.
- Developing perspective views and 3D visualizations for design presentation.
- Understanding ergonomics, lighting design, and acoustics in restaurant interiors.
- Using design software (AutoCAD, SketchUp, etc.) or hand-drafting techniques.
- Integrating furniture layouts, kitchen workflow, and customer movement patterns.

MODULE 4: MATERIAL BOARD & BUDGETING (16 Hours | 6 Marks)

- Selecting appropriate materials, finishes, and furniture for restaurant interiors.
- Preparing material boards with specifications for flooring, wall treatments, and upholstery.
- Understanding cost estimation and preparing a preliminary budget.
- Justifying material choices based on durability, hygiene, and aesthetics.
- Presenting material boards effectively for client approval.

INSTRUCTIONAL STRATEGY:

- Encourage students to document case studies and create a portfolio of restaurant designs.
- Utilize market surveys and real-world restaurant projects for hands-on learning.
- Implement hand sketching, drafting software (AutoCAD, SketchUp, etc.), and 3D modeling.
- Conduct site visits and material workshops for exposure to practical applications.
- Include peer reviews and presentations to enhance design communication skills.

MEANS OF ASSESSMENT:

- Portfolio Submission (Case Study, Mood Boards, Concept Sheets)
- Technical Drawing Evaluation (Plans, Elevations, Perspectives)
- Material Board Presentation

- End-Semester Practical Exam

RECOMMENDED BOOKS:

1. *Time Saver Standards for Interior Design and Space Planning* – Joseph De Chiara, Julius Panero
2. *The Interior Design Reference & Specification Book* – Chris Grimley, Mimi Love
3. *Hospitality & Restaurant Design* – Roger Yee
4. *Eat Out! Restaurant Design & Identity* – Dagmar Steffen

(ID305) COMPUTER APPLICATION – I CAD LAB

Sl. No.	Topic	Marks
1	Introduction to AutoCAD & User Interface	4
2	Creating and Saving Drawings	5
3	Basic Drawing Commands	6
4	Modifying and Editing Drawings	8
5	Blocks, Layers, and Object Properties	6
6	Dimensioning and Text	6
7	Layouts, Plotting, and Printing	5
Total		**40**

NAME OF THE SUBJECT : Computer Application I – CAD LAB			
Course code: ID305			Semester: Third
Teaching Scheme			Total Marks: 100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	4	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	2		

RATIONALE:

In today's design industry, proficiency in computer-aided drafting (CAD) is a crucial skill for architectural and interior design professionals. With the growing demand for precise, editable, and presentable digital drawings, this course equips students with the essential knowledge and hands-on experience in 2D drafting using AutoCAD. The curriculum focuses on fundamental drawing tools, modifying techniques, layering systems, dimensioning, and plotting, enabling students to create professional-level construction and presentation drawings.

This course is structured to help students efficiently draft floor plans, elevations, sections, and furniture layouts, ensuring accuracy and industry-standard representation.

LEARNING OUTCOMES:

By the end of this course, students will be able to:

- Set up and manage AutoCAD drawings with proper units, layers, and templates.
- Create precise 2D architectural and interior drawings for construction and presentation.
- Modify, edit, and optimize drawings using essential AutoCAD commands.
- Apply dimensioning techniques and organize text for clear communication.
- Prepare drawings for plotting and printing, ensuring scale accuracy and layout efficiency.

DETAILED COURSE CONTENT

MODULE 1: INTRODUCTION TO AUTOCAD & USER INTERFACE (4 Hours | 4 Marks)

- Understanding AutoCAD workspace, menus, and toolbars.
- Navigating the command line and input methods.
- Setting up the drawing environment (units, limits, grid, snap, ortho).
- Organizing drawing files and folder management.

MODULE 2: CREATING AND SAVING DRAWINGS (6 Hours | 5 Marks)

- Creating a new drawing and setting up the workspace.
- Using coordinate systems: Absolute, Relative, and Polar.
- Saving, opening, and managing drawing files efficiently.
- Customizing AutoCAD settings for ease of workflow.

MODULE 3: BASIC DRAWING COMMANDS (8 Hours | 6 Marks)

- Drawing basic shapes: Lines, polylines, rectangles, circles, and polygons.
- Using advanced tools like splines, arcs, and ellipses.
- Applying hatching and gradient fills to enhance drawings.
- Developing simple compositions using different shapes.

MODULE 4: MODIFYING AND EDITING DRAWINGS (10 Hours | 8 Marks)

- Editing drawings using Trim, Extend, Move, Copy, Rotate, Scale, and Mirror.
- Using Offset, Fillet, Chamfer, and Array commands for design variations.
- Grouping and ungrouping objects for easy modification.
- Applying editing techniques to interior layouts and furniture plans.

MODULE 5: BLOCKS, LAYERS, AND OBJECT PROPERTIES (8 Hours | 6 Marks)

- Understanding layers and their importance in organized drawings.
- Creating and managing blocks for repetitive elements (furniture, doors, windows).
- Working with line weights, colors, and linetypes for clarity.
- Using Xrefs (External References) to link multiple drawings.

MODULE 6: DIMENSIONING AND TEXT (6 Hours | 6 Marks)

- Setting up dimension styles for professional documentation.
- Applying linear, aligned, radial, and angular dimensions.
- Editing and updating dimension text for precision.
- Using text tools to annotate drawings and create labels.

MODULE 7: LAYOUTS, PLOTTING, AND PRINTING (6 Hours | 5 Marks)

- Setting up layouts and viewports for final presentation.
- Adjusting scale and paper size for plotting.
- Selecting line thickness, colors, and plot styles for printing.
- Printing drawings in black & white or color using model space & paper space.

(ID306) COSTING & ESTIMATION

Sl. No.	Topic	Knowledge (Descriptive)	Comprehension	Application (MCQs/Fill in the blanks)	Total Marks
1	Specification of Interior Materials	4	4	2	10
2	Estimating Techniques & Methods	5	5	2	12
3	Tendering & Contracting	4	4	2	10
4	Measurement Book for BOQ	4	4	2	10
5	Units & BOQ Preparation	4	4	2	10
Total					60

NAME OF THE SUBJECT :	Costing and Estimation
Course code: ID306	Semester: Third
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 2 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks
Credit: 2	

RATIONALE

Estimating and costing are crucial skills for interior design professionals, ensuring that projects are budgeted, planned, and executed efficiently. This course equips students with the ability to analyze material and labor costs, create detailed estimates, and understand tendering principles essential for project management. Diploma holders in Interior Design & Decoration (IDD) must be capable of preparing estimates for interior construction elements, such as:

- Brickwork, RCC casting, flooring, and plastering
- Electrical, plumbing, and sanitary work
- False ceilings, POP work, painting, and polishing

Additionally, students will gain knowledge of contracting, rate analysis, and tendering, which are vital for real-world project execution.

LEARNING OUTCOMES

By the end of this course, students will be able to:

- Convert and apply measurement units in estimating and costing.
- Calculate quantities of materials for various interior construction components.
- Prepare detailed estimates and bills of quantities (BOQs).
- Conduct rate analysis of materials and labor.
- Understand specifications and costing of different interior materials.
- Develop valuation reports for completed or proposed interior projects.
- Apply public health engineering principles in cost estimation.
- Maintain proper documentation and record-keeping for estimating and costing.

DETAILED COURSE CONTENT

MODULE 1: SPECIFICATION OF INTERIOR MATERIALS (6 Hours | 10 Marks)

- Understanding specifications and standards for interior materials.
- Analysis of paneling, partitioning, false ceilings, flooring, and furniture.
- Cost estimation for modern materials used in interiors.
- Role of specifications in tendering and project execution.

MODULE 2: ESTIMATING TECHNIQUES & METHODS (6 Hours | 12 Marks)

- Preparing bills of quantities (BOQs) from drawings.
- Pricing materials and labor for interior projects.

MODULE 3: TENDERING & CONTRACTING (4 Hours | 10 Marks)

- Essentials of tender documents in interior design.
- Preparation of work schedules and progress charts.
- Writing specifications for furniture, finishes, and services.
- Understanding measurement units for different interior components.
- Calculating quantities for civil, plumbing, and electrical works in interiors.

MODULE 4: MEASUREMENT BOOK FOR BOQ (4 Hours | 10 Marks)

- Recording measurements for BOQs.
- Organizing and maintaining estimation records.
- Preparing BOQs for interior construction projects.

MODULE 5: UNITS & BOQ PREPARATION (4 Hours | 10 Marks)

- Standard units of measurement as per BIS:1200.
- Rules for measurement and best practices.
- Different methods of taking out quantities for:
    - Furniture
    - Wall Finishes
    - Floor Finishes
    - Plumbing Works

INSTRUCTIONAL STRATEGY

- Practical application: Students will work with real drawings and case studies to develop estimates.
- Hands-on exercises: Weekly assignments on rate analysis and BOQ preparation.
- Industry exposure: Understanding tendering and project execution through guest lectures and site visits.
- Conceptual clarity: Strong focus on measurement techniques and cost control strategies.

RECOMMENDED BOOKS

1. Estimating and Costing in Civil Engineering – B.N. Dutta
2. Estimating, Costing, and Valuation – Dr. R.P. Retholiya & Prof. Bhavesh Modi
3. Civil Engineering Handbook – P.N. Khanna
4. Estimating & Costing for Civil Engineering – Dr. Vinod Gupta & Manisha Agarwal
5. Estimating, Costing, and Valuation (Civil) – H.D. Pasrija, C.L. Arora, S. Inderjit Singh
6. Estimating and Costing – Sanjay Mahajan
7. Estimating and Costing – B.S. Rangwala
8. A Textbook on Estimating and Costing (Civil) – D. Kohli

Course Structure Adjustments

- Lecture Hours Reduced to 36 Hours (from 52).
- Marks Adjusted to 60 (from 75).
- More Practical Focus with BOQ preparation and real-life case studies.

Sl. No.	Topic	Progressive Assignment
1	Water Supply and Drainage	15
2	Lighting and Electrical Plans	20
3	Communication Systems	5
Total		40

NAME OF THE SUBJECT :	Interior Services – I (Electrical & Plumbing) Lab
Course code: ID301	Semester: Third
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 0 hrs/week	Theory PA: 0 marks
Tutorial: 0 hrs/week	Practical End Exam: 40 marks
Practical: 2 hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit: 1	

RATIONALE:

In interior design, building services play a crucial role in ensuring functionality, comfort, and safety. This course provides students with an in-depth understanding of essential services such as water supply, drainage, electrical layouts, lighting, and communication systems. By learning about their types, characteristics, applications, and installation methods, students will be able to make informed decisions and integrate these services seamlessly into their design projects.

The course emphasizes practical knowledge, enabling students to analyze and select appropriate systems for various projects. By the end of this course, students will develop the ability to incorporate efficient service solutions while maintaining aesthetic appeal in residential and commercial spaces.

LEARNING OUTCOMES:

After completing this course, students will be able to:

- Understand the role of various services in building design and functionality.
- Study and illustrate the details of water supply and drainage systems.
- Apply knowledge of thermal and acoustic insulation techniques.
- Create and interpret electrical layouts for different spaces.
- Select appropriate sanitary and electrical fixtures for optimal performance.
- Gain insights into different lighting systems and their applications.
- Understand the requirements of communication systems within a built environment.
- Study firefighting equipment and security systems for enhanced safety.

DETAILED COURSE CONTENT

1. WATER SUPPLY AND DRAINAGE (**10 Hours | 15 Marks**)

- Basics of water supply: Hot and cold-water systems
- Types and sizes of pipes, materials used (PVC, GI, CI, etc.)
- Sanitary fixtures: Water closets (Indian & European), sinks, bathtubs, washbasins, bidets, urinals, etc.
- Toilet accessories: Soap trays, towel rods, shower panels, bath enclosures, sensor-based fittings
- Drainage principles: Materials for drains, types of traps, septic tanks, and their functioning

2. LIGHTING AND ELECTRICAL LAYOUTS (**10 Hours | 20 Marks**)

- Types of lighting systems: Incandescent, fluorescent, LED, and their applications
- Lighting design principles: Matching light to different spaces (residential & commercial)
- Preparation of electrical layouts with symbolic representation as per IS: 962/1967
- Understanding different wiring systems, conduit types, and their uses
- Selection of appropriate electrical fixtures for interior spaces

3. COMMUNICATION SYSTEMS (**4 Hours | 15 Marks**)

- Basics of communication networks in buildings
- Telephone, intercom, PBX, and VoIP systems
- Optical fiber cables and Wi-Fi networking
- Security systems: CCTV, biometric access, alarm systems

RECOMMENDED BOOKS:

6. *Water Supply and Sanitary Installations* – Anand Chintaman Panchdhari, New Age International Pvt. Ltd.
7. *Handbook of Designing and Installation Services in High-Rise Building Complexes* – Er. B.K. Jain, Khanna Publishers.
8. *Plumbing and Sanitation (Hindi Edition)* – S.K. Jain and Amit Aggarwal, Bhartiye Technical Publications.
9. *Modern Basic Electrical and House Wiring Servicing* – M. Lotia, BPB Publications.
10. *Lighting for Interior Design* – Malcolm Innes, Laurence King Publishing.

(IDT303) BUILDING CONSTRUCTION & MATERIALS – II LAB

Sl. No	Topic	Total Marks
1.	Doors & Windows	5
2.	Movable Partitions	5
3.	Soundproof Design	10
4.	False Ceilings	10
5.	Movable Furniture	5
6.	Built-in Furniture	5
TOTAL		**40**

NAME OF THE SUBJECT :			Building Construction & Materials – II Lab
Course code: ID303			Semester: Third
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	2	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	2		

RATIONALE:

A diploma student of Interior Design must develop a strong understanding of construction materials and systems used in interior spaces. This course provides practical knowledge on doors, windows, partitions, ceilings, and furniture design, ensuring students gain expertise in technical detailing, construction methods, and material applications.

LEARNING OUTCOMES:

Upon completing this course, students will be able to:

6. Identify and understand various construction materials and their use in interior spaces.
7. Learn the planning and detailing of soundproof cabins with acoustical treatments.
8. Draw and comprehend different types of doors and windows, including modern systems.
9. Understand false ceiling construction, support methods, and surface finishes.
10. Develop technical knowledge of movable furniture and built-in furniture systems.

DETAILED COURSE CONTENT:

1. Doors & Windows (**6 Hours | 5 Marks**)

- Types of Doors: Aluminum and steel doors, swing doors, pivot doors, revolving doors, and shop front windows
- Windows: Aluminum, steel, and uPVC windows with grills
- Construction & Materials: Sectional detailing, hardware fittings, and joinery methods

2. Movable Partitions (**4 Hours | 5 Marks**)

- Types: Sliding and folding partitions, collapsible shutters, rolling shutters
- Mechanisms & Detailing: Track systems, space-saving solutions, and material options
- Applications: Commercial, residential, and hospitality interiors

3. Soundproof Design (**4 Hours | 10 Marks**)

- Fundamentals of Acoustics: Sound absorption, reflection, and transmission
- Acoustic Treatments: Walls, floors, doors, and windows—materials and installation methods
- Designing a Soundproof Cabin: Planning considerations and technical solutions

5. **False Ceilings** (**4 Hours | 10 Marks**)

- Types of False Ceilings: Grid, gypsum, POP, metal, stretch fabric, and wooden ceilings
- Support Methods: Suspension systems, framework, and integration with lighting and HVAC
- Finishing Techniques: Surface treatments, paint, wallpaper, texture finishes

5. Movable Furniture (**3 Hours | 5 Marks**)

- Definition & Importance: Adaptable, lightweight, and space-saving designs
- Types: Foldable chairs, expandable tables, modular sofas, and multipurpose storage units
- Material Considerations: Wood, metal, plastic, and innovative materials

6. Built-in Furniture & Fixtures (**3 Hours | 5 Marks**)

- Concept & Benefits: Space optimization, seamless aesthetics, and durability
- Design & Detailing: Wardrobes, study units, wall-mounted storage, and kitchen cabinets
- Installation Methods: Fixed joinery, concealed fittings, and modular configurations

NOTE:
The course will emphasize studio-based learning, where students will actively prepare technical drawings, construction details, and execution drawings. Theoretical concepts will be covered before practical drafting sessions.

RECOMMENDED BOOKS:

3. *Modular Kitchen Planning and Designing Guide* – Gopal Dwivedi (Notion Press)
4. *Door and Window Design* – Antonio Corcuera (TeNeues Media GmbH & KG, USA

(IDT301) INTERIOR DESIGN WORKSHOP – I

Sl. No	Topic	Marks
1	Expert Lectures & Seminars	10
2	Group Discussions & Analytical Thinking	15
3	Student-Led Activities & Practical Exercises	15
Total		**40**

NAME OF THE SUBJECT :			Interior Design Workshop – I
Course code: IDT301			Semester: Third
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	2	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	1		

RATIONALE:

This course is designed to enhance students' practical understanding of interior design by engaging them in research, discussions, and industry interactions. It focuses on skill development beyond theoretical knowledge, equipping students with the ability to analyze, present, and collaborate effectively. The course encourages exploration of professional practices, industry trends, and creative problem-solving through various structured activities.

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

- Conduct independent research and compile relevant information from various sources.
- Present and articulate ideas effectively through seminars and discussions.
- Develop critical thinking and analytical skills through peer interactions and group discussions.
- Gain insights into industry practices through expert lectures and industrial visits.
- Work collaboratively on activities that foster creativity and problem-solving skills.
- Prepare structured reports and documentation based on real-world observations and experiences.

DETAILED COURSE CONTENT:

1. Expert Lectures & Seminars (**6 Hours | 15 Marks**)

- Organizing guest lectures by professionals, industry experts, or academicians
- Researching and preparing notes on assigned topics related to interior design
- Conducting individual student seminars based on independent research
- Enhancing presentation skills through structured seminar sessions

2. Group Discussions & Analytical Thinking (**8 Hours | 15 Marks**)

1. Conducting structured group discussions on selected topics
2. Encouraging critical analysis and articulation of thoughts in a collaborative setting
3. Topics may include:
    a. Notable architects and interior designers
    b. Evolution of Indian and global architecture

c. Emerging trends in interior design and construction technology
d. Sustainability and innovation in design

4. Preparing a brief report summarizing key takeaways from discussions

3. Student-Led Activities & Practical Exercises (**10 Hours | 10 Marks**)

1) Engaging in hands-on activities in teams (3-4 students per group)
2) Activities may include:
    a) Site visits and documentation of real-world projects
    b) Design problem-solving exercises and case studies
    c) Conceptualizing and presenting innovative interior design solutions
    d) Researching new materials, techniques, and sustainable practices
3) Submission of a report documenting observations, findings, and insights gained

INSTRUCTIONAL STRATEGY:

- Faculty will guide students in structuring their research, discussions, and presentations.
- Real-world exposure will be prioritized through expert interactions and site visits.
- Students will be encouraged to develop independent thought and creativity.
- Assessment will be based on participation, research depth, clarity of presentations, and report submissions.

(IDT302) ASSISTANT WELDER

Sl. No.	Topic	Marks
1.	Introduction to Signage and its Applications	10
2.	Signage Design and Fabrication	30
Total		**40**

NAME OF THE SUBJECT : Assistant Welder			
Course code: IDT302			Semester: Third
Teaching Scheme			Total Marks: 100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	3		

RATIONALE:

Signage plays a crucial role in communication, branding, and wayfinding in various spaces, from commercial establishments to public buildings. This course provides students with hands-on training in the design, fabrication, and installation of signage. The primary objective is to familiarize students with materials, production techniques, and the creative process involved in crafting effective signage. By the end of the course, students will develop practical skills in signage-making that enhance their design thinking and technical expertise.

LEARNING OUTCOMES:

After completing this course, students will be able to:

- Understand the significance of signage in interior and exterior spaces.
- Identify different types of signage, including wayfinding, informational, and branding signage.
- Learn about materials used in signage fabrication, such as acrylic, metal, wood, and vinyl.
- Develop skills in typography, layout composition, and visual hierarchy for signage design.
- Gain hands-on experience in fabrication techniques
- Assemble and install signage with precision.
- Demonstrate their understanding of the signage-making process through a viva voce session.

DETAILED COURSE CONTENT

1. Introduction to Signage and its Applications (10 Marks)

- Understanding the role of signage in various environments.
- Types of signage:
  - Wayfinding signage
  - Informational signage
  - Branding and advertising signage
  - Digital and interactive signage
- Study of materials used in signage production.
- Basics of typography, color theory, and visual hierarchy in signage design.

2. Signage Design and Fabrication (30 Marks)

- **Concept Development & Sketching:**
  - Ideation and visualization of signage concepts.
  - Selecting appropriate fonts, colors, and layouts.
- **Material Selection & Preparation:**
  - Acrylic, wood, metal, glass, and vinyl as signage materials.
  - Surface preparation techniques for different materials.
- **Fabrication Techniques:**
  - Vinyl cutting and application.
  - Manual cutting, assembling, and finishing techniques.
- **Assembly & Installation:**
  - Mounting methods for indoor and outdoor signage.
  - Electrical considerations for illuminated signage.
  - Adhesive applications and structural reinforcement.

3. Viva Voce and Practical Demonstration

- Explanation of the signage-making process, materials, and tools used.
- Evaluation of the completed signage project.
- Discussion on challenges faced and improvements in execution.

This course ensures that students gain hands-on experience in designing and fabricating functional and aesthetically appealing signage, preparing them for practical applications in interior design, commercial branding, and environmental graphics.

DETAILED THEORY SYLLABUS – FOURTH SEMESTER

ID401- INTERIOR SERVICES II (FIRE FIGHTING & HVAC)

Sl.no	TOPIC	KNOWLEDGE (DESCRIPTIVE)	COMPREHENSION	APPLICATION (MCQs/Fill in the blanks)	TOTAL
1	Fire Fighting	06	06	04	16
2	Air Conditioning and Ventilation	07	08	05	20
3	Advance Building System	08	08	08	24
GRAND TOTAL					**60**

NAME OF THE SUBJECT :	INTERIOR SERVICES- II (FIRE FIGHTING & HVAC)
Course code: ID401	Semester: Fourth
Teaching Scheme: Credit: 2	Total Marks:100 PA and End Examination Scheme
Theory: 2 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks

RATIONALE:

Building services such as fire safety, air conditioning, ventilation, and automation systems play a crucial role in ensuring the functionality, safety, and efficiency of modern buildings. This course aims to equip students with fundamental knowledge of electrical and mechanical services used in residential and commercial buildings. By understanding these systems, students will be able to integrate them effectively into interior spaces while considering aesthetics, sustainability, and safety regulations.

LEARNING OUTCOMES:

After completing this course, students will be able to:

- Understand the importance of fire safety measures, including fire detection, alarms, and firefighting techniques in buildings.
- Identify different air conditioning and ventilation systems, their applications, and their impact on indoor environments.
- Analyze various home automation technologies and their integration in modern buildings.
- Gain practical knowledge of security surveillance, access control, and smart systems for residential and commercial spaces.
- Develop awareness of building codes, regulations, and energy-efficient solutions related to electrical and mechanical services.

DETAILED COURSE CONTENT

1. FIRE FIGHTING (16 Marks | 24 Hours)

Fire safety is an essential aspect of building design and management. This module introduces students to fire detection systems, alarms, and firefighting techniques used in residential and commercial buildings. Topics covered include:

- Fire Detection Systems: Smoke detectors, heat detectors, flame detectors, and fire suppression sensors.
- Fire Alarm Systems: Manual and automatic alarm systems, types of fire alarms, and integration with building management systems.
- Firefighting Systems: Fire extinguishers, sprinkler systems, hydrant systems, and fire-resistant materials used in interiors.
- Regulations & Standards: Understanding fire codes and safety measures prescribed by the National Building Code.

2. AIR CONDITIONING AND VENTILATION (20 Marks | 30 Hours)

This module focuses on indoor environmental quality, air circulation, and temperature control in buildings. Students will learn about various air conditioning and ventilation systems, their advantages, and their suitability for different spaces. Topics include:

- Types of Air Conditioning Systems:
  - Window AC
  - Split AC (Wall-mounted, Floor-standing)
  - Cassette AC
  - Central Air Conditioning System (Chilled water systems, VRF/VRV systems)
- Merits and Demerits of Each System: Energy efficiency, installation costs, maintenance requirements, and suitability for different spaces.
- Ventilation Systems: Natural vs. mechanical ventilation, air filtration, and the impact of ventilation on indoor air quality.

3. ADVANCED BUILDING SYSTEMS (HOME AUTOMATION) (24 Marks | 30 Hours)

With the rapid advancement in technology, smart systems have become integral to modern buildings. This module explores home automation, security surveillance, and access control systems, focusing on their integration into interior spaces. Topics include:

a) Security Surveillance & Access Control Systems

- Introduction, Scope, and Need: Understanding the role of automation in modern architecture.
- CCTV Systems: Types of CCTV cameras, network requirements, and applications in security management.
- IP/Network Security Systems: Digital surveillance, cloud-based monitoring, and smart security solutions.

b) Access Control & Wireless Automation

- Access Control Systems: Biometric entry, RFID technology, keycard access, and smart locks.
- Applications of Access Control: Securing residential, commercial, and industrial buildings.
- Wireless Automation: Integration of smart devices (lighting, HVAC, security) through IoT and AI-driven systems.

NAME OF THE SUBJECT : BUILDING CONSTRUCTION AND MATERIALS-III	
Course code: ID402	Semester: FOURTH
Teaching Scheme: Credit: 2	Total Marks: 100 PA and End Examination Scheme
Theory: 2 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks

Sl.no	TOPIC Preparing drawings for:	KNOWLEDGE (DESCRIPTIVE)	COMPREHENSION	APPLICATION (MCQs/Fill in the blanks)	TOTAL
1	Doors & Windows	04	03	02	09
2	Movable Partitions	03	02	02	07
3	Soundproof cabin design	02	02	02	06
4	Different methods of support and finishes of false ceilings	04	03	03	10
5	Moveable furniture	02	02	02	06
6	Built in furniture and fixtures	02	02	02	06
7	Modular furniture and kitchen	04	03	02	09
8	Introduction of contemporary building materials	03	02	02	07
GRAND TOTAL					**60**

ID402: BUILDING CONSTRUCTION & MATERIALS- III

RATIONALE

A diploma student of interior design must develop the ability to prepare detailed drawings that represent interior design elements, construction systems, and components. This course focuses on equipping students with the technical skills needed to design and detail essential interior components, including doors, windows, partitions, false ceilings, movable and built-in furniture, and modular systems. Through this module, students will gain an in-depth understanding of various materials, their applications, and construction techniques.

LEARNING OUTCOMES

Upon completing this course, students will be able to:

- Identify and apply different construction materials in interior design.
- Plan and detail soundproof cabins with acoustical treatments for walls, floors, doors, and windows.
- Draw technical details of various door types and their elements.
- Illustrate and understand the construction and application methods of false ceilings.
- Gain knowledge of modern building materials, modular furniture, modular kitchens, and prefabricated materials.

DETAILED COURSE CONTENT

1) Doors & Windows (9 Marks | 8 Hours)

- Aluminum and steel doors and windows with grills.
- Swing doors/Pivot doors.
- Revolving doors.
- Shopfront windows.
- Introduction to uPVC doors and windows.

2) Movable Partitions (7 Marks | 5 Hours)

- Sliding and folding partitions.
- Collapsible shutters.
- Rolling shutters.

3) Soundproof Cabin Design (6 Marks | 4 Hours)

- Acoustic treatment for walls, floors, doors, and windows.
- Planning and layout of soundproof cabins.

4) False Ceilings: Support & Finishes (10 Marks | 7 Hours)

- Various support systems for false ceilings.
- Finishing techniques and materials used in false ceilings.

5) Movable Furniture (6 Marks | 4 Hours)

- Designing and detailing of movable furniture pieces.
- Materials and joinery techniques for portable furniture.

6) Built-in Furniture & Fixtures (6 Marks | 5 Hours)

- Understanding built-in furniture in residential and commercial spaces.
- Integration of storage solutions within architectural elements.

7) Modular Furniture & Modular Kitchen (9 Marks | 6 Hours)

- Types of modular kitchen units and their components.
- Steel baskets: Grain trolley, cutlery tray, cup & saucer baskets, carousels.

- Hardware fittings: Spring hinges, soft-close hinges, telescopic channels.
- Prefabricated interior materials and installation techniques.

8) Contemporary Building Materials (7 Marks | 3 Hours)

- Introduction to new and emerging materials in interior construction.
- Analysis of current market trends and material availability.

STUDY REPORT ASSIGNMENT

Students must select a **live project site** and prepare a comprehensive report, including as-made drawings and documentation of:

- Stone/Tile flooring work.
- False ceiling work.
- Sanitary fixture installations.
- Electrical layout and fixture installations.
- Woodwork, painting, and polishing.
- Quantity analysis, specification charts, and cost estimation.

Note:
Emphasis should be placed on original design concepts and detailed technical drawings. Lectures and studio work are interconnected, requiring teachers to explain fundamental concepts before students engage in drawing exercises.

RECOMMENDED BOOKS

1. Modular Kitchen Planning and Designing Guide by Gopal Dwivedi (Notion Press).
2. Door and Window Design by Antonio Corcuera (TeNeues Media GmbH & KG, USA).

(ID403) INTERIOR DESIGN III – RETAIL OUTLET LAB

Sl. No.	Topic	Practical End Exam Marks
1	Case Study & Problem Analysis	5
2	Concept Development & Mood Boards	5
3	Technical Drawings (Plan, Elevations, 3D Views)	25
4	Material Board & Budgeting	5
Grand Total		**40**

NAME OF THE SUBJECT : Interior Design III – Retail Outlet Lab			
Course code: ID403			Semester: Fourth
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	3		

DETAILED COURSE CONTENT – RETAIL OUTLET DESIGN

Module 1: Case Study & Problem Analysis *(10 hours | 5 marks)*

- Understanding spatial and functional requirements of retail interiors.
- Conducting market research on retail trends, branding, and consumer behavior.
- Identifying key design constraints, opportunities, and merchandising strategies.
- Analyzing existing retail store layouts in terms of product placement, customer flow, and accessibility.
- Developing a problem statement and design brief for a retail store project.

Module 2: Concept Development & Mood Boards *(10 hours | 5 marks)*

- Creating theme-based design concepts for retail outlets (luxury stores, boutiques, department stores, etc.).
- Exploring space zoning strategies for display, checkout, fitting rooms, storage, and circulation areas.
- Developing mood boards showcasing brand identity, color schemes, lighting, and display aesthetics.
- Producing area analysis diagrams to optimize product placement and customer experience.
- Sketching preliminary layouts and visual representations of the retail environment.

Module 3: Technical Drawings – Plan, Elevations, & 3D Views *(50 hours | 25 marks)*

- Drafting detailed floor plans with circulation paths, product display zones, and service counters.
- Creating interior elevations and sectional drawings highlighting key design features.
- Developing perspective views and 3D visualizations to enhance spatial representation.
- Understanding scale, proportion, and the psychological impact of store layouts on consumer behavior.
- Using software tools (AutoCAD, SketchUp, or hand-drafting) for accurate documentation.
- Integrating branding elements, lighting strategies, and wayfinding signage into technical drawings.

Module 4: Material Board & Budgeting *(14 hours | 5 marks)*

- Selecting appropriate materials, finishes, and furniture for retail spaces.
- Preparing material boards with fabric, flooring, lighting, and fixture samples.

- Estimating costs for store construction, furniture, display units, and branding elements.
- Justifying material selections based on durability, maintenance, aesthetics, and brand alignment.
- Presenting material boards effectively for client and stakeholder approvals.

INSTRUCTIONAL STRATEGY

- Encourage students to conduct market research and analyze successful retail outlets.
- Use real-world design briefs and branding strategies for project-based learning.
- Incorporate hand sketching, drafting software (AutoCAD, SketchUp, etc.), and physical models for design visualization.
- Conduct site visits and material exploration workshops to understand retail space requirements.
- Implement peer reviews and interactive presentations to refine design storytelling and communication skills.

MEANS OF ASSESSMENT

- **Portfolio Submission** (Case Study, Mood Boards, Concept Sheets)
- **Technical Drawing Evaluation** (Plans, Elevations, Perspectives)
- **Material Board Presentation**
- **End-Semester Practical Exam**

RECOMMENDED BOOKS

1. Retail Design – Ann Petermans, Anthony Kent
2. Store Design & Visual Merchandising – Claus Ebster, Marion Garaus
3. Designing Commercial Interiors – Christine M. Piotrowski
4. Time-Saver Standards for Interior Design & Space Planning – Joseph De Chiara, Julius Panero
5. The Interior Design Reference & Specification Book – Chris Grimley, Mimi Love

ID404 COMPUTER APPLICATION-II (CAD AND SKETCHUP) LAB

Sl.no	TOPIC	TOTAL
1	CAD Drafting – Complete Project Documentation	20
2	Making 3D Modeling & Visualization	20
	GRAND TOTAL	**40**

NAME OF THE SUBJECT : COMPUTER APPLICATION-II (CAD AND SKETCHUP)			
Course code: ID404			**Semester: Fourth**
Teaching Scheme Credit: 3			**Total Marks: 100** **PA and End Examination Scheme**
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

RATIONALE:

This course is designed to build students' confidence in preparing detailed architectural drawings using CAD software and enhancing their 3D visualization skills. By applying the knowledge acquired in previous semesters, students will develop comprehensive project documentation and explore advanced rendering techniques using SketchUp or the latest industry-standard software. The course focuses on technical precision, spatial representation, and professional presentation of both interior and exterior spaces.
Note: Relevant theory will be integrated with practical exercises in each module.

DETAILED COURSE CONTENT

Module 1: CAD Drafting – Complete Project Documentation *(20 marks)*

- Utilizing CAD software to develop a full set of working drawings for a design project from the 3rd semester.
- Drafting detailed floor plans, including furniture layout and circulation flow.
- Preparing interior elevations (minimum 2) showcasing key design features.
- Developing sections (minimum 2) to illustrate spatial relationships and construction details.
- Creating joinery schedules and fixture details for precise execution.
- Incorporating landscaping elements, tree plantations, and parking layouts into site plans.
- Maintaining industry-standard line weights, annotations, and presentation techniques.

Module 2: 3D Modeling & Visualization *(20 marks)*

- Converting an existing 2D plan into a fully developed 3D model using SketchUp.
- Modeling walls, floors, ceilings, furniture, and architectural details with precision.
- Applying textures, materials, and lighting to enhance realism.
- Exploring different viewing perspectives to understand space better.
- Rendering interior and exterior views using built-in or external rendering engines.
- Creating 2-3 high-quality renderings for portfolio presentation.
- Preparing walkthroughs or animation sequences for dynamic visualization.

INSTRUCTIONAL STRATEGY:

- Hands-on training with CAD software and SketchUp to strengthen practical skills.
- Assignments and weekly project submissions to track progress.

- Peer reviews and faculty critiques to improve design communication.
- Live demonstrations on advanced rendering techniques.
- Exposure to industry case studies to understand professional documentation standards.
- Encouragement of self-exploration with design software to enhance creativity.

ID 405 INTERIOR SERVICES-II (FIRE FIGHTING AND HVAC) LAB

Sl.no	TOPIC	TOTAL
1	Fire safety systems	10
2	Air conditioning and ventilation systems	10
3	Home automations and security systems	10
4	Final project & Assessment	10
GRAND TOTAL		40

NAME OF THE SUBJECT: INTERIOR SERVICES II (FIRE FIGHTING AND HVAC) LAB	
Course code: ID405	**Semester: Fourth**
Teaching Scheme: **Credit: 1**	**Total marks: 100**
Theory: 0 hrs/week	**PA and End exam Scheme**
Practical: 0 hrs/week	Theory PA: 0
Tutorial: 2 hrs/week	Practical end exam: 40
	End semester theory: 0
	Practical PA: 60

OBJECTIVE:

The practical course aims to provide hands-on experience with fire safety, HVAC, and automation systems used in modern buildings. Students will gain practical knowledge of system installation, operation, troubleshooting, and integration within interior spaces while adhering to safety regulations and sustainability principles.

COURSE BREAKDOWN:

Module 1: Fire Safety Systems (10 Marks)

Fire Detection Systems

- Demonstration of smoke, heat, and flame detectors.
- Hands-on installation of fire detection sensors.
- Testing fire alarm responses and interconnections.

Fire Alarm and Firefighting Systems

- Practical operation of manual and automatic fire alarm systems.
- Use of different types of fire extinguishers in simulated fire situations.
- Demonstration of sprinkler and hydrant systems.
- Field visit to a fire department or a commercial building for a live demonstration of fire safety systems.

Module 2: Air Conditioning & Ventilation Systems (10 Marks)

□ Types & Components of Air Conditioning Systems

- Hands-on introduction to various AC units (Window, Split, Cassette, and Central).
- Identification of components (compressors, condensers, evaporators, expansion valves).
- Installation and basic servicing of Split AC systems.

□ Air Conditioning Load Calculation & Energy Efficiency

- Introduction to cooling load calculations using standard formulas.
- Comparative study of different air conditioning systems for energy efficiency.
- Practical understanding of refrigerants and their environmental impact.

□ Ventilation Systems & Indoor Air Quality

- Demonstration of mechanical vs. natural ventilation.
- Practical measurement of airflow and indoor air quality using sensors.
- Integration of ventilation solutions in interior spaces.

Module 3: Home Automation & Security Systems (10 Marks)

□ Security Surveillance Systems

- Installation of CCTV cameras and configuration of network-based monitoring.
- Understanding IP camera setups and remote access features.
- Practical use of motion detection and AI-enabled security analytics.

□ Access Control & Wireless Automation

- Hands-on experience with biometric entry, RFID, and smart locks.
- Integration of access control with interior design layouts.
- Testing IoT-enabled automation systems (lighting, HVAC, security).

□ Final Project & Assessment (10 Marks)

- Students will develop a **mini-project** incorporating fire safety, HVAC, or automation into an interior design space.
- Practical assessments through simulations and troubleshooting exercises.
- Final viva and presentation on system integration, efficiency, and sustainability.

ID 406 BUILDING CONSTRUCTION AND MATERIALS-III LAB

Sl.no	TOPIC	TOTAL
1	Doors & Windows	08
2	Movable Partitions and soundproof cabin	10
3	False ceiling and modular furniture	12
4	Contemporary building materials	10
GRAND TOTAL		**40**

NAME OF THE SUBJECT: BUILDING CONSTRUCTION & MATERIALS-III LAB	
Course code: ID406	Semester: Fourth
Teaching Scheme Credit: 1	Total Marks: 100
Theory: 0 hrs/week	**PA and End Examination Scheme** Theory PA: 0 Theory End Semester: 0
Tutorial: 0 hrs/week	
Practical: 2 hrs/week	Practical End Exam: 40 Practical PA: 60

OBJECTIVE:

This practical course enables students to develop hands-on experience in preparing technical drawings, understanding materials, and applying construction techniques related to interior spaces. The focus is on designing and detailing doors, windows, partitions, ceilings, and furniture while ensuring functionality and aesthetics.

COURSE BREAKDOWN:

Module 1: Doors & Windows (08 Marks)

 Technical Drawings & Installations

Assessment: Prepare a detailed working drawing of a door/window with frame details.

Module 2: Movable Partitions & Soundproof Cabins (10 Marks)

 Partition Design & Materials

 Acoustic Materials & Soundproofing Techniques

Assessment: Prepare a partition drawing with section details & material specifications.

Module 3: False Ceilings & Modular Furniture (12 Marks)

 False Ceiling Systems & Drawings

 Modular Furniture & Kitchen Layouts

Assessment: Prepare a false ceiling & modular furniture drawing with material specifications.

Module 4: Contemporary Building Materials (10 Marks)

 Hands-on Material Exploration

 Final Project

- Students develop a mini-project incorporating modular furniture, partitions, or false ceilings.
- Material selection and detailing for real-world application.

 Final Assessment & Viva

- Practical test: Students draft a detailed working drawing from their project.
- Viva on materials, structural details, and application.

IDE401: i) KITCHEN DESIGN
KCA DISTRIBUTION

COURSE: i) KITCHEN DESIGN					
Sl.no	**TOPIC**	**KNOWLEDGE**	**COMPREHENSION**	**APPLICATION**	**TOTAL**
1	Introduction to Kitchen Design	3	1	1	10
2	Kitchen Layouts and Planning	3	2	1	10
3	Modular Kitchen Design	3	2	1	12
4	Kitchen Fixtures and Appliances	3	2	2	14
5	Materials and Finishes for Kitchens	3	2	1	14
GRAND TOTAL					**60**

NAME OF THE SUBJECT : i) Kitchen Design	
Course code: IDE401	Semester: Fourth
Teaching Scheme Credit: 3	Total Marks: 100
	PA and End Examination Scheme
Theory: 3 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks

RATIONALE:

The kitchen is an essential space in any residential or commercial setting, requiring a balance of aesthetics, functionality, and efficiency. This course provides students with a comprehensive understanding of kitchen design principles, emphasizing ergonomics, space planning, material selection, and modern storage solutions. By integrating design theory with practical application, students will learn to create well-planned kitchens that enhance user experience, optimize workflow, and ensure safety.

LEARNING OUTCOMES:

By the end of this course, students will be able to:

1. Apply kitchen design principles to create efficient and aesthetically pleasing layouts.
2. Develop modular kitchen designs with appropriate material selection and space utilization.
3. Plan functional kitchen layouts that maximize storage and workflow.
4. Integrate safety, lighting, and ventilation into kitchen design.
5. Select and position appliances and fixtures for optimal performance and user convenience.

DETAILED COURSE CONTENT

Module 1: Introduction to Kitchen Design *(10 marks)*

- Importance of kitchen design in interior spaces.
- Key considerations: functionality, ergonomics, workflow efficiency, and aesthetics.
- Fundamental principles: work triangle, zoning, and user experience.

Module 2: Kitchen Layouts & Planning *(10 marks)*

- Exploration of kitchen layout types: U-shaped, L-shaped, island, and galley kitchens.
- Factors influencing layout selection: available space, user preferences, and accessibility.
- Optimizing movement flow and storage within different layouts.

Module 3: Modular Kitchen Design (*12 marks)*

- Understanding modular kitchen components: cabinetry, countertops, and storage units.
- Material selection for kitchen furniture: wood, laminates, acrylics, metals.
- Designing functional storage solutions and incorporating kitchen islands.

Module 4: Kitchen Fixtures & Appliances *(14 marks)*

- Selecting essential kitchen appliances: refrigerators, ovens, cooktops, hoods, sinks, and dishwashers.
- Strategies for integrating appliances seamlessly into kitchen layouts.
- Lighting and ventilation design for a well-balanced kitchen environment.

Module 5: Materials & Finishes for Kitchens *(14 marks)*

- Surface material selection: countertops, backsplashes, and flooring.
- Cabinet finishes and materials: wood, laminates, acrylics, glass, and metal.
- Incorporating sustainable materials and eco-friendly design solutions.

INSTRUCTIONAL STRATEGY:

- Case studies and real-world examples of kitchen designs.
- Hands-on material exploration through sample boards and catalogs.
- Technical drawing exercises for kitchen layouts and modular components.
- Software applications (AutoCAD, SketchUp) for digital kitchen modeling.
- Industry expert talks and site visits to observe functional kitchens.

MEANS OF ASSESSMENT:

- Portfolio Submission: Conceptual designs, kitchen layouts, and material selections.
- Technical Drawing Evaluation: Plans, elevations, and functional zoning diagrams.
- Material Board Presentation: Showcasing finishes, colors, and storage solutions.
- End-Semester Practical Exam: Application of design principles to a given kitchen project.

This course equips students with the skills to design efficient, stylish, and functional kitchens that meet modern living demands.

IDE401: ii) FURNITURE DESIGN
KCA DISTRIBUTION

COURSE: ii) FURNITURE DESIGN					
Sl.no	**TOPIC**	**KNOWLEDGE**	**COMPREHENSION**	**APPLICATION**	**TOTAL**
1	Introduction to Furniture Design	2	2	1	10
2	Design of Living room and bedroom furniture	3	2	1	10
3	Design of office and storage furniture	3	2	1	12
4	Material and Finishes for Furniture	3	2	1	14
5	Detailed drawings and specifications for furniture's	3	2	2	14
GRAND TOTAL					**60**

NAME OF THE SUBJECT : ii) Furniture Design	
Course code: IDE401	Semester: Fourth
Teaching Scheme Credit: 3	Total Marks: 100
	PA and End Examination Scheme
Theory: 3 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks

RATIONALE:
Furniture design is an integral aspect of interior design, combining functionality, aesthetics, and craftsmanship. This course provides students with a comprehensive understanding of furniture types, materials, ergonomics, and detailing. By learning about built-in, movable, and modular furniture, students will develop the skills to design practical and visually appealing furniture pieces tailored to different interior spaces.

LEARNING OUTCOMES:
By the end of this course, students will be able to:

1. Understand the fundamentals of furniture design, including function, aesthetics, and material selection.
2. Design furniture pieces that are functional, ergonomic, and visually cohesive with interior spaces.
3. Select and apply appropriate materials and finishes for different furniture types.
4. Incorporate ergonomic principles to create user-friendly furniture.
5. Develop detailed technical drawings and specifications for furniture manufacturing.

DETAILED COURSE CONTENT

Module 1: Introduction to Furniture Design (10 marks)

- Fundamentals of furniture design: balance between function, form, and materials.
- Classification of furniture: built-in, movable, and modular furniture.
- Role of ergonomics in designing comfortable and efficient furniture.

Module 2: Design of Living Room and Bedroom Furniture (10 marks)

- Designing furniture for living rooms: sofas, armchairs, coffee tables, and TV units.
- Bedroom furniture design: beds, wardrobes, dressers, nightstands, and seating.
- Material selection and structural considerations for durability and aesthetics.

Module 3: Design of Office and Storage Furniture (12 marks)

- Office furniture design: desks, chairs, conference tables, workstations, and filing units.
- Functional storage solutions: bookshelves, cabinets, modular storage systems.
- Space-saving techniques and multipurpose furniture designs.

Module 4: Materials and Finishes for Furniture (14 marks)

- Common furniture materials: wood, metal, glass, plastics, and composites.
- Finishing techniques: polishing, laminating, painting, veneering, and upholstery.
- Sustainable and eco-friendly materials in furniture production.

Module 5: Detailed Drawings and Specifications for Furniture (14 marks)

- Developing technical drawings: orthographic views, exploded views, and assembly drawings.
- Understanding scale, proportion, and structural detailing.
- Preparing material specifications and fabrication guidelines.

INSTRUCTIONAL STRATEGY:

- Hands-on exploration of materials through physical samples.
- Sketching and model-making exercises to develop form and proportion.
- Use of drafting software (AutoCAD, SketchUp) for technical drawings.
- Case studies of contemporary furniture design and industry trends.
- Site visits to furniture manufacturing units or showrooms for practical exposure.

MEANS OF ASSESSMENT:

- Portfolio Submission: Concept sketches, mood boards, and design proposals.
- Technical Drawing Evaluation: Scaled drawings with material and structural details.
- Material Board Presentation: Showcasing finishes, colors, and furniture components.
- End-Semester Practical Exam: Designing a furniture piece based on a given brief.

(IDT401) INTERIOR DESIGN WORKSHOP – II

Sl. No	Topic	Marks
1	Expert Lectures & Seminars	10
2	Group Discussions & Analytical Thinking	10
3	Student-Led Activities & Practical Exercises	20
Total		**40**

NAME OF THE SUBJECT :			Interior Design Workshop – II
Course code: IDT401			Semester: Fourth
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40marks
Practical:	2	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	1		

RATIONALE:

This course is designed to enhance students' practical understanding of interior design by engaging them in research, discussions, and industry interactions. It focuses on skill development beyond theoretical knowledge, equipping students with the ability to analyze, present, and collaborate effectively. The course encourages exploration of professional practices, industry trends, and creative problem-solving through various structured activities.

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

- Conduct independent research and compile relevant information from various sources.
- Present and articulate ideas effectively through seminars and discussions.
- Develop critical thinking and analytical skills through peer interactions and group discussions.
- Gain insights into industry practices through expert lectures and industrial visits.
- Work collaboratively on activities that foster creativity and problem-solving skills.
- Prepare structured reports and documentation based on real-world observations and experiences.

DETAILED COURSE CONTENT:

1. Expert Lectures & Seminars (6 Hours | 15 Marks)

- Organizing guest lectures by professionals, industry experts, or academicians
- Researching and preparing notes on assigned topics related to interior design
- Conducting individual student seminars based on independent research
- Enhancing presentation skills through structured seminar sessions

2. Group Discussions & Analytical Thinking (8 Hours | 15 Marks)

5. Conducting structured group discussions on selected topics
6. Encouraging critical analysis and articulation of thoughts in a collaborative setting
7. Topics may include:
    a. Notable architects and interior designers
    b. Evolution of Indian and global architecture

c. Emerging trends in interior design and construction technology
d. Sustainability and innovation in design

8. Preparing a brief report summarizing key takeaways from discussions

3. Student-Led Activities & Practical Exercises (**10 Hours | 10 Marks**)

4) Engaging in hands-on activities in teams (3-4 students per group)
5) Activities may include:
    a) Site visits and documentation of real-world projects
    b) Design problem-solving exercises and case studies
    c) Conceptualizing and presenting innovative interior design solutions
    d) Researching new materials, techniques, and sustainable practices
6) Submission of a report documenting observations, findings, and insights gained

INSTRUCTIONAL STRATEGY:

- Faculty will guide students in structuring their research, discussions, and presentations.
- Real-world exposure will be prioritized through expert interactions and site visits.
- Students will be encouraged to develop independent thought and creativity.
- Assessment will be based on participation, research depth, clarity of presentations, and report submissions.

(IDT402) INTERIOR SPACE DESIGN

Sl. No.	Topic	Progressive Assignment
1	Case Study & Problem Analysis	5
2	Concept Development & Mood Boards	5
3	Technical Drawings (Plan, Elevations, 3D Views)	25
4	Material Board & Budgeting	5
Total		40

NAME OF THE SUBJECT :			Interior Space Design
Course code: IDT402			Semester: Fourth
Teaching Scheme			Total Marks:100
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit:	3		

RATIONALE:

Designing interior spaces requires a balance of creativity, functionality, and technical knowledge. This course equips students with hands-on experience in conceptualizing, planning, and executing design solutions for real-world spaces. Through a practical approach, students will engage with live design projects, analyzing site conditions, user needs, and aesthetic considerations. Emphasis will be placed on spatial planning, thematic design, material selection, and technical detailing, preparing students for industry challenges.

LEARNING OUTCOMES:

By the end of the course, students will be able to:

- Conduct case studies and site analyses to understand project requirements.
- Develop theme-based design concepts that align with user experience and functionality.
- Create professional-level technical drawings, including floor plans, elevations, and 3D views.
- Select and present suitable materials, furniture, and lighting for diverse interior spaces.
- Understand the basics of budgeting and cost estimation for interior projects.

DETAILED COURSE CONTENT

Module 1: Case Study & Problem Analysis (5 marks)

- Understanding various interior space typologies (residential, commercial, hospitality, retail, etc.).
- Conducting site visits, analyzing user needs, and identifying design challenges.
- Studying spatial flow, accessibility, and operational efficiency.
- Identifying brand positioning or thematic inspirations.
- Evaluating existing design solutions—strengths and areas for improvement.
- Defining a problem statement for the assigned interior space project.

Module 2: Concept Development & Mood Boards (5 marks)

- Developing theme-based interior concepts tailored to the given space.
- Exploring spatial zoning and functional layouts.

• Creating mood boards incorporating colors, textures, furniture, and lighting schemes.
• Producing user experience diagrams for movement patterns and space efficiency.
• Sketching preliminary design ideas and visual representations.

Module 3: Technical Drawings – Plan, Elevations, & 3D Views (25 marks)

• Drafting detailed floor plans with circulation and service areas.
• Creating interior elevations and sectional drawings for spatial layouts.
• Developing perspective views and 3D visualizations for design presentation.
• Integrating ergonomics, lighting, and acoustics into design solutions.
• Using design software (AutoCAD, SketchUp, etc.) or hand-drafting techniques.
• Planning furniture layouts, material placements, and user movement patterns.

Module 4: Material Board & Budgeting (5 marks)

• Selecting appropriate materials, finishes, and furniture for the designed space.
• Preparing material boards with specifications for flooring, wall treatments, and upholstery.
• Understanding cost estimation and developing a preliminary budget.
• Justifying material choices based on durability, aesthetics, and functionality.
• Presenting material boards effectively for client approval.

INSTRUCTIONAL STRATEGY:

• Assign students a live interior space to design and document the process in a portfolio.
• Conduct site visits and encourage real-world spatial analysis.
• Implement hand sketching, drafting software, and 3D modeling techniques.
• Organize material workshops and industry expert sessions for practical exposure.
• Include peer reviews and presentations to enhance design communication skills.

RECOMMENDED BOOKS:

- Time Saver Standards for Interior Design and Space Planning – Joseph De Chiara, Julius Panero
- The Interior Design Reference & Specification Book – Chris Grimley, Mimi Love
- Interior Design Illustrated – Francis D.K. Ching
- Architectural Graphics – Francis D.K. Ching

DETAILED THEORY SYLLABUS – FIFTH SEMESTER

ID501- COMPUTER APPLICATION-III
(CAD, SKETCHUP AND RENDERING SYSTEMS) LAB

Sl.no	TOPIC	KNOWLEDGE	COMPREHENSION	APPLICATION	TOTAL
1	Project (Rendering of Sketch-Up)	3	3	4	10
2	Working with Photoshop	3	3	4	10
3	Making an existing 2D into 3D	6	6	8	20
GRAND TOTAL					**40**

NAME OF THE SUBJECT : COMPUTER APPLICATION-III (AUTOCAD , SKETCHUP AND RENDERING SYSTEMS)			
Course code: ID501			**Semester: Fifth**
Teaching Scheme Credit:	4		**Total Marks: 100**
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	8	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

RATIONALE:

This course enables students to enhance their confidence in preparing and presenting drawings for interior and architectural projects. By applying knowledge acquired in previous semesters, students will develop their skills in digital modeling, rendering, and visualization. The course focuses on creating three-dimensional representations of spaces using SketchUp and rendering techniques, ensuring high-quality presentations of interiors and exteriors.

LEARNING OUTCOMES:

By the end of the course, students will be able to:

- Develop a complete set of architectural drawings for a given design project.
- Create and render 3D models of interior and exterior spaces using SketchUp.
- Enhance visual presentations through image editing and post-processing in Photoshop.
- Apply various rendering techniques to improve the realism of digital models.
- Present well-composed and detailed architectural visualizations.

DETAILED COURSE CONTENT

Module 1: Project – Rendering of SketchUp Drawings (10 marks)

- Preparing a complete set of drawings based on the 4th-semester design project.
- Creating floor plans, elevations (minimum 2), and sections (minimum 2).
- Detailing interior layouts, joinery schedules, and landscaping elements.
- Incorporating parking layouts, tree plantations, and site planning in drawings.

Module 2: Working with Photoshop (10 marks)

- Exporting images from SketchUp and other software.
- Understanding and utilizing basic Photoshop features for architectural visualization.
- Working with layers for effective image editing.
- Merging and manipulating multiple images to enhance presentations.
- Adjusting colors, swatches, and gradients for rendering effects.

Module 3: Converting 2D Plans into 3D Using SketchUp (20 marks)

- Transforming an existing 2D plan into a 3D model.
- Exercises: Converting the 4th-semester design proposal into a fully developed 3D model.

• Applying textures, materials, and lighting for realistic rendering.
• Exploring advanced modeling techniques for detailing interiors and exteriors.

INSTRUCTIONAL STRATEGY:
• Encourage hands-on learning through project-based exercises.
• Utilize SketchUp and Photoshop for digital modeling and rendering.
• Conduct demonstrations of advanced visualization techniques.
• Provide feedback through peer reviews and portfolio assessments.
• Organize industry-based workshops on digital presentation methods.

MEANS OF ASSESSMENT:
• Submission of a complete digital portfolio (plans, elevations, sections).
• Evaluation of 3D models and rendering quality.
• Photoshop-based presentation assignments.
• End-semester practical exam on digital visualization.

RECOMMENDED BOOKS:

1. *SketchUp for Interior Design: 3D Visualizing, Designing, and Space Planning* – Lydia Sloan Cline
2. *Rendering in SketchUp: From Modeling to Presentation for Architecture, Landscape Architecture, and Interior Design* – Daniel Tal
3. *Photoshop for Interior Designers* – Suining Ding
4. *Architectural Graphics* – Francis D.K. Ching

ID502- INTERIOR DESIGN III- WORKING DRAWINGS LAB
KCA DISTRIBUTION

Sl.no	TOPIC	TOTAL
1	Introduction to working drawings	6
2	Floor plans and interior layouts	8
3	Elevations and sections	5
4	Furniture and fixture details	6
5	Services Drawings	10
6	Final drawing set	5
GRAND TOTAL		**40**

NAME OF THE SUBJECT :	INTERIOR DESIGN III- WORKING DRAWINGS LAB
Course code: ID502	Semester: Fifth
Teaching Scheme Credit: 4	Total Marks: 100 PA and End Examination Scheme
Theory: 0 hrs/week	Theory PA : 0 marks
Tutorial: 0 hrs/week	Practical End Exam: 40 marks
Practical: 8 hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

RATIONALE:
This course equips students with the essential skills to create professional and comprehensive working drawings for interior design projects. By integrating knowledge from previous semesters, students will develop technical drawings that effectively communicate design concepts for construction. The course emphasizes accuracy, service integration, and detailing, ensuring students are well-prepared to produce functional and executable designs.

LEARNING OUTCOMES:
By the end of the course, students will be able to:
• Develop detailed working drawings for interior design projects.
• Integrate essential services such as electrical, plumbing, and HVAC into design plans.
• Convert conceptual designs into precise technical drawings for construction.
• Prepare floor plans, elevations, sections, and detailed drawings for furniture, fixtures, and finishes.
• Compile a comprehensive and well-coordinated set of working drawings.

DETAILED COURSE CONTENT

Module 1: Introduction to Working Drawings (Marks: 6)
• Understanding the purpose and significance of working drawings in interior design.
• Overview of key drawing types: floor plans, elevations, sections, details, and service layouts.
• Learning industry-standard conventions, including dimensioning, symbols, and technical annotations.
Outcome: Students will gain foundational knowledge of working drawings and their components.

Module 2: Floor Plans and Interior Layouts (Marks: 8)
• Translating design concepts into well-structured floor plans.
• Incorporating detailed dimensions, placement of walls, doors, windows, and furniture.
• Specifying materials, finishes, and construction details.
Outcome: Students will produce precise and detailed floor plans that convey all necessary design elements.

Module 3: Elevations and Sections (Marks: 5)
• Developing elevation drawings to represent vertical views of interiors, showcasing walls, openings, and finishes.
• Drawing sectional views to illustrate spatial relationships, heights, and structural details.
• Specifying materials, finishes, and construction techniques.
Outcome: Students will create clear and informative elevation and section drawings to complement floor plans.

Module 4: Furniture and Fixture Details (Marks: 6)
• Producing detailed drawings of custom-designed furniture and fixtures.
• Specifying dimensions, materials, finishes, and joinery details for built-in elements.
Outcome: Students will be able to generate precise furniture and fixture drawings for execution.

Module 5: Services Drawings – Electrical, Plumbing, and HVAC (Marks: 10)
• **Electrical Layout:** Placement of outlets, switches, lighting fixtures, and circuit diagrams.
• **Plumbing Layout:** Water supply, drainage lines, and fixture placements.
• **HVAC Systems:** Integration of air conditioning, ventilation, and heating systems.
Outcome: Students will successfully integrate service systems into their working drawings to create functional interior spaces.

Module 6: Final Drawing Set Preparation (Marks: 5)
• Assembling all working drawings into a comprehensive set.
• Ensuring clarity, accuracy, and completeness of technical details.
• Reviewing and refining drawings for professional presentation.
Outcome: Students will prepare a complete, coordinated, and construction-ready set of working drawings.

INSTRUCTIONAL STRATEGY:
• Practical exercises and assignments based on real-world interior design projects.
• Use of drafting software (AutoCAD, Revit, SketchUp) and hand-drawn techniques.
• Industry-based case studies to understand working drawing standards.
• Regular peer reviews and faculty feedback for improvement.
• Site visits to observe real working drawings in implementation.

MEANS OF ASSESSMENT:
• Submission of a complete working drawing portfolio.
• Evaluation of technical accuracy and presentation quality.
• Practical assignments on services integration.
• End-semester practical exam.

RECOMMENDED BOOKS:

1. *Architectural Drafting and Design* – Alan Jefferis, David A. Madsen
2. *Working Drawings Handbook* – Keith Styles, Andrew Bichard
3. *Interior Design Illustrated* – Francis D.K. Ching
4. *Building Systems for Interior Designers* – Corky Binggeli

IDE501 (ANY ONE) iii) EXHIBITION DESIGN

COURSE: iii) EXHIBITION DESIGN					
Sl.no	**TOPIC**	**KNOWLEDGE**	**COMPREHENSION**	**APPLICATION**	**TOTAL**
1	Introduction to Exhibition Design	3	1	1	6
2	Elements of Exhibition Design	3	2	1	8
3	Design process and concept development	3	2	1	12
4	Lighting and graphics in Exhibition Design	3	2	2	12
5	Materials and Structures for Exhibition Spaces	3	2	1	10
6	Final design proposal and Presentation	8	2	2	12
GRAND TOTAL					**60**

NAME OF THE SUBJECT :	iii) EXHIBITION DESIGN
Course code: IDE501	**Semester: Fifth**
Teaching Scheme Credit: 3	**Total Marks: 100**
	PA and End Examination Scheme
Theory: 3 hrs/week	Theory PA: 40 marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks

RATIONALE:

Exhibition design plays a crucial role in creating immersive and impactful spatial experiences for various purposes, such as museums, trade shows, retail displays, and corporate events. This course provides students with the skills and knowledge needed to conceptualize, design, and present engaging exhibition spaces. Through a structured learning approach, students will explore spatial planning, lighting, graphics, materials, and interactive elements to develop well-rounded exhibition designs.

LEARNING OUTCOMES:

By the end of the course, students will be able to:

- Understand the fundamental principles of exhibition design and its applications across industries.
- Plan and organize exhibition spaces with a focus on visitor experience and storytelling.
- Integrate lighting, graphics, and interactive elements to enhance the impact of exhibitions.
- Select appropriate materials and modular structures for temporary and permanent exhibition setups.
- Develop a comprehensive exhibition design proposal with detailed drawings and visual presentations.

DETAILED COURSE CONTENT

Module 1: Introduction to Exhibition Design (Lecture Hours: 6 | Marks: 6)

- Definition and importance of exhibition design in different industries, including museums, trade shows, and retail.
- Role of an interior designer in planning and executing exhibition spaces.
- Fundamental principles of exhibition design: space planning, user experience, and visual storytelling.

Outcome: Students will develop a foundational understanding of exhibition design and its role in creating engaging visitor experiences.

Module 2: Elements of Exhibition Design (Lecture Hours: 8 | Marks: 8)

- Essential components of exhibition spaces: spatial layout, materials, lighting, furniture, graphics, and multimedia.
- Use of modular displays, interactive installations, and branding in exhibitions.
- Planning user flow and ensuring accessibility for diverse audiences.

Outcome: Students will gain knowledge of the key elements that contribute to an effective exhibition space.

Module 3: Design Process and Concept Development (Lecture Hours: 8 | Marks: 12)

• Steps in developing an exhibition concept: research, brainstorming, and initial sketches.
• Translating themes and messages into spatial design.
• Creating mood boards, conceptual layouts, and schematic floor plans.
Outcome: Students will be able to conceptualize and develop exhibition designs from idea to execution.

Module 4: Lighting and Graphics in Exhibition Design (Lecture Hours: 8 | Marks: 12)

• The impact of lighting on exhibitions: types of lighting (ambient, accent, task) and their functions.
• Role of graphics and signage in wayfinding, storytelling, and brand communication.
• Best practices for integrating digital media and interactive technology into exhibitions.
Outcome: Students will learn to integrate lighting, graphics, and digital elements for enhanced visitor engagement.

Module 5: Materials and Structures for Exhibition Spaces (Lecture Hours: 9 | Marks: 10)

• Selection of materials for exhibition construction: temporary vs. permanent setups.
• Introduction to modular structures for flexible and adaptable exhibition designs.
• Considerations for display stands, walls, flooring, and durability based on exhibition type.
Outcome: Students will understand the selection of materials and structural elements necessary for exhibition design.

Module 6: Final Design Proposal and Presentation (Lecture Hours: 9 | Marks: 12)

• Developing a complete exhibition design, including floor plans, elevations, and technical drawings.
• Creating a professional presentation with 3D visualizations, mood boards, and technical specifications.
• Presenting the design proposal effectively to a client or audience.
Outcome: Students will gain the skills to compile and present a comprehensive exhibition design proposal.

INSTRUCTIONAL STRATEGY:

• Hands-on projects and practical exercises to apply design concepts.
• Use of software such as SketchUp, AutoCAD, and Photoshop for visualization and planning.
• Case studies of real-world exhibitions to understand best practices.
• Group discussions and critiques to refine design solutions.
• Site visits to exhibition spaces for practical exposure.

MEANS OF ASSESSMENT:

• Submission of an exhibition design portfolio.
• Evaluation of conceptual development, technical drawings, and presentation quality.
• Individual and group project assessments.
• End-semester practical examination.

RECOMMENDED BOOKS:

1. *Exhibition Design* – David Dernie
2. *Designing Exhibitions: Display, Environment & Technology* – Giles Velarde

3. *The Art of Museum Exhibitions: How Story and Imagination Create Aesthetic Experiences* – Leslie Bedford
4. *Interior Design Handbook of Professional Practice* – Cindy Coleman

IDE501 (ANY ONE)

iv) EVENT DESIGN

Course: iv) EVENT DESIGN					
Sl.no	**TOPIC**	**KNOWLEDGE**	**COMPREHENSION**	**APPLICATION**	**TOTAL**
1	Introduction to Event design	4	2	2	8
2	Event Conceptualization and Theme Development	4	2	2	8
3	Layout and Floor Plan Design for Events	4	4	4	12
4	Lighting and Sound Design for Events	5	3	2	10
5	Materials, Décor, and Furniture Selection for Events	5	3	2	10
6	Event Design Presentation and Final Proposal	8	2	2	12
GRAND TOTAL					**60**

NAME OF THE SUBJECT :			iv) EVENT DESIGN
Course code: IDE501			**Semester: Fifth**
Teaching Scheme Credit:	3		**Total Marks: 100**
			PA and End Examination Scheme
Theory:	3	hrs/week	Theory PA: 40 marks
Tutorial:	0	hrs/week	Practical End Exam: 0 marks
Practical:	0	hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks

RATIONALE:

Event design is an essential aspect of spatial planning that transforms ordinary venues into immersive and memorable experiences. This course equips students with the knowledge and skills to design creative, functional, and aesthetically engaging event spaces. From conceptualization to execution, students will learn how to develop event themes, plan layouts, select materials and décor, and integrate lighting and sound design to enhance the event atmosphere. The course covers diverse event types, including corporate functions, weddings, product launches, conferences, and trade shows, providing a well-rounded understanding of event design principles.

COURSE OBJECTIVES:

By the end of this course, students will:

• Gain an understanding of fundamental principles of event design and its role in shaping experiences.
• Learn to conceptualize and design innovative, functional, and visually compelling event spaces.
• Develop the ability to plan and execute event layouts, furniture arrangements, lighting, décor, and signage.
• Acquire practical knowledge of designing for various event types and managing design elements efficiently.
• Enhance presentation skills to effectively communicate design proposals to clients and stakeholders.

LEARNING OUTCOMES:

Upon successful completion of the course, students will be able to:

1. Identify the role of an interior designer in event planning and execution.
2. Develop creative event themes that align with the event's purpose and audience.
3. Design functional, aesthetic, and interactive event layouts using industry-standard tools.
4. Integrate key design elements, such as lighting, graphics, furniture, and materials, to create cohesive event spaces.
5. Produce detailed event design proposals, including floor plans, 3D visualizations, and material specifications.
6. Professionally present event design concepts to clients and stakeholders.

DETAILED COURSE CONTENT

Module 1: Introduction to Event Design

Marks: 8

• Definition of event design and its significance in spatial planning.
• Importance of space planning in event execution: understanding the client's brief and audience

expectations.
• Overview of different event types: corporate, social, cultural, and commercial events.
• Role and responsibilities of an interior designer in event execution.
Outcome: Students will gain a foundational understanding of event design and its impact on creating immersive experiences.

Module 2: Event Conceptualization and Theme Development

Marks: 8
• Identifying event objectives and defining a unique theme.
• Translating themes into a visual design narrative.
• Research and ideation process: developing creative event concepts.
• Creating mood boards, color palettes, and inspirational design guides.
Outcome: Students will learn how to develop and refine creative event themes into well-structured design concepts.

Module 3: Layout and Floor Plan Design for Events

Marks: 12
• Fundamentals of event space planning: traffic flow, accessibility, and attendee comfort.
• Developing floor plans for different event types (weddings, conferences, exhibitions, etc.).
• Optimizing furniture arrangements, staging, and booth placements for functionality and aesthetics.
• Designing spaces for interaction, product displays, and audience engagement.
Outcome: Students will develop practical skills in designing efficient and engaging event layouts.

Module 4: Lighting and Sound Design for Events

Marks: 10
• Role of lighting in setting ambiance and enhancing event experiences.
• Types of event lighting: ambient, accent, and task lighting.
• Basics of sound design: audio-visual equipment, acoustics, and spatial considerations.
• Integration of lighting and sound design to create immersive event environments.
Outcome: Students will learn how to incorporate lighting and sound into event spaces to enhance mood and functionality.

Module 5: Materials, Décor, and Furniture Selection for Events

Marks: 10
• Selecting appropriate materials and furniture based on event type, budget, and aesthetics.
• Exploring décor elements: floral arrangements, props, installations, and signage.
• Sustainable design practices in event materials and décor.
• Working with vendors and suppliers for sourcing and logistics.
Outcome: Students will understand how to select and integrate materials, décor, and furniture to create cohesive and sustainable event designs.

Module 6: Event Design Presentation and Final Proposal

Marks: 12
• Developing a complete event design proposal: floor plans, elevations, material specifications, and furniture selections.
• Creating 3D visualizations and digital models to illustrate design concepts.
• Techniques for effectively presenting event designs to clients and stakeholders.
• Structuring a professional event design pitch with detailed documentation.
Outcome: Students will gain expertise in compiling and presenting professional event design proposals.

INSTRUCTIONAL STRATEGY:

• Hands-on design exercises and real-world case studies.
• Use of software like SketchUp, AutoCAD, Photoshop, and event planning tools.
• Group discussions, peer critiques, and interactive workshops.

• Live event analysis through site visits and event space evaluations.
• Guest lectures by industry professionals to provide insights into event design trends.

MEANS OF ASSESSMENT:

• Practical assignments and design portfolio submissions.
• Evaluation of conceptual development, floor plans, and visual presentations.
• Individual and group project assessments.
• End-semester practical examination.

RECOMMENDED BOOKS:

1. *Event Design Handbook* – Roel Frissen & Ruud Janssen
2. *The Art of Event Planning* – Gianna Cardinale Gaudini
3. *Event Planning and Management* – Ruth Dowson & David Bassett
4. *Event Lighting: The Art and Science* – Richard Cadena

IDE401 (ANY ONE)
(iii) Intelligent Interiors

COURSE: INTELLIGENT INTERIORS					
Sl.no	**TOPIC**	**KNOWLEDGE**	**COMPREHENSION**	**APPLICATION**	**TOTAL**
1	Introduction to Intelligent Interiors	05	04	03	12
2	Home & Office Automation Systems	05	04	03	12
3	Energy efficiency and sustainability in Intelligent Interiors	05	04	03	12
4	Responsive & Interactive Interior Environments	05	04	03	12
5	Future trends and Innovations in Intelligent Interiors	05	04	03	12
GRAND TOTAL					**60**

NAME OF THE SUBJECT: iii) INTELLIGENT INTERIORS	
Course Code: IDE401	**Semester: Fifth**
Teaching Scheme Credit: 3	Total Marks:100
Theory: 3 hrs/week	PA and End Exam Scheme Theory PA: 60
Tutorial: 0 hrs/week	Theory End Semester: 40
Practical: 0 hrs/week	Practical End Semester: 0 Practical PA: 0

RATIONALE:

The integration of technology into interior spaces enhances functionality, comfort, and sustainability. This course focuses on smart interiors, incorporating automation, AI-driven solutions, and responsive environments that adapt to users' needs. Students will learn about IoT-based interior solutions, energy-efficient systems, and smart material applications to create futuristic living and workspaces.

LEARNING OUTCOMES:

After completing this course, students will be able to:
- Understand the role of smart technology in modern interiors.
- Identify and integrate IoT-based automation systems in interior design.
- Analyze the impact of energy-efficient solutions on interior spaces.
- Develop intelligent interior solutions with adaptive and interactive environments.
- Apply smart materials and AI-driven technologies to improve functionality and aesthetics.

DETAILED COURSE CONTENT

Module 1: Introduction to Intelligent Interiors (12 Marks)

 Concept of Intelligent Interiors – Evolution & Future Trends
 Role of Technology in Interior Design – AI, IoT, and Automation
 Smart Homes vs. Smart Commercial Spaces – Key Differences

Module 2: Home & Office Automation Systems (12 Marks)

 IoT in Interiors – Smart Lighting, HVAC, Security, and Entertainment
 AI-based Personalization – Adaptive lighting, climate control, and voice-activated systems
 Security & Access Control – CCTV, biometric locks, and remote monitoring
 Integration of Smart Devices – Mobile Apps, Hubs, and AI Assistants

Module 3: Energy Efficiency & Sustainability in Intelligent Interiors (12 Marks)

 Energy Management Systems – Smart Meters, Renewable Energy in Interiors
 Eco-Friendly Automation – AI-powered energy savings, Smart Thermostats
 Sustainable Smart Materials – Self-cleaning surfaces, thermochromic glass, phase-change materials
 Smart Water Management – Leak detection, automated irrigation, and water-saving fixtures

Module 4: Responsive & Interactive Interior Environments (12 Marks)

 Adaptive Interiors – Spaces that respond to user behavior
 Smart Furniture & Wearable Technology – Ergonomic, Flexible, and Connected Furniture
 Virtual & Augmented Reality in Interiors – Smart Displays, Projection Mapping, and AR/VR Integration
 Haptic Feedback & Sensory Design – Interactive Floors, Walls, and Surfaces

Module 5: Future Trends & Innovations in Intelligent Interiors (12 Marks)

 Future of AI in Interior Design – Predictive Design, AI-driven Layouts
 Smart Cities & Connected Spaces – How Intelligent Interiors Fit into the Larger Ecosystem
 Neuro-Interiors – Designing Spaces That React to Human Emotions and Behaviors
 Ethical Considerations & Privacy in Smart Spaces

IDE401 iv) Eco Friendly Interiors

COURSE: ECO-FRIENDLY INTERIORS					
Sl.no	**TOPIC**	**KNOWLEDGE**	**COMPREHENSION**	**APPLICATION**	**Marks**
1	Introduction to Eco-friendly Interiors	04	03	02	09
2	Sustainable materials and finishes	05	04	03	12
3	Energy-efficient Interior Design	05	04	03	12
4	Waste reduction and recycling in Interiors	04	03	03	10
5	Water conservation and Indoor Air quality	04	02	03	09
6	Green certification and future trends	04	02	02	08
GRAND TOTAL					60

NAME OF THE SUBJECT: iv) ECO-FRIENDLY INTERIORS	
Course Code: IDE401	**Semester: Fifth**
Teaching Scheme Credit: 3	Total Marks:100
Theory: 3 hrs/week	PA and End Exam Scheme Theory PA: 60
Tutorial: 0 hrs/week	Theory End Semester: 40
Practical: 0 hrs/week	Practical End Semester: 0 Practical PA: 0

RATIONALE:

Sustainable design is essential in modern interiors, focusing on environmentally responsible choices, energy efficiency, and eco-friendly materials. This course aims to equip students with an understanding of green building techniques, sustainable materials, and waste reduction strategies to create healthier and more efficient interior spaces.

LEARNING OUTCOMES:

After completing this course, students will be able to:
-Understand the principles of eco-friendly interior design.
- Identify and utilize sustainable materials in interior spaces.
-Apply energy-efficient lighting, HVAC, and water conservation techniques.
-Integrate waste management and recycling in interior projects.
-Evaluate and implement green certifications and sustainable practices.

MODULE 1: INTRODUCTION TO ECO-FRIENDLY INTERIORS (09 Marks)

- Definition & Importance of Sustainable Interior Design
- Principles of Eco-Friendly Interiors (Reduce, Reuse, Recycle, Regenerate)
- Impact of Interior Design on Environment & Human Health
- Sustainable vs. Conventional Interior Design Approaches

MODULE 2: SUSTAINABLE MATERIALS & FINISHES (12Marks)

- Eco-Friendly Building Materials:
    - Bamboo, Cork, Reclaimed Wood, Rammed Earth, Hempcrete
    - Recycled Metals, Glass, and Plastics
- Low-VOC Paints & Finishes
- Green Flooring Options: Terrazzo, FSC-Certified Wood, Linoleum
- Sustainable Wall Treatments & Surface Finishes

MODULE 3: ENERGY-EFFICIENT INTERIOR DESIGN (12 Marks)

- Passive Design Strategies:
    - Maximizing Natural Ventilation & Daylighting
    - Orientation & Insulation Techniques
- Active Energy Strategies:
    - Smart Lighting (LEDs, Motion Sensors, Daylight Harvesting)
    - Solar Panels & Renewable Energy Sources
- Energy-Efficient HVAC Systems & Smart Climate Control

MODULE 4: WASTE REDUCTION & RECYCLING IN INTERIORS (10 Marks)

- Waste Management in Interior Design
- Upcycling & Repurposing in Interior Spaces
- Biodegradable Materials & Zero-Waste Design
- Product Life Cycle Analysis & Sustainable Manufacturing

MODULE 5: WATER CONSERVATION & INDOOR AIR QUALITY (09 Marks)

- Water-Efficient Fixtures & Greywater Systems
- Rainwater Harvesting in Interiors
- Non-Toxic Finishes & Air-Purifying Indoor Plants
- Green Walls & Living Roofs for Air Filtration

MODULE 6: GREEN CERTIFICATIONS & FUTURE TRENDS (08 Marks)

- Green Building Certifications: LEED, GRIHA, WELL, BREEAM
- Smart Sustainable Interiors: AI in Eco-Design, IoT-Based Energy Management
- Ethical & Low-Carbon Interior Design Practices
- Case Studies on Sustainable Interior Projects

IP501 - INTERNSHIP-I (4 WEEKS AFTER SEMESTER IV)

Assessment Criteria	Marks
Internship Report	10
Portfolio Submission	20
Internship Company Review	10
GRAND TOTAL	40

NAME OF THE SUBJECT :			INTERNSHIP - I
Course code: IP501			**Semester: Fifth**
Teaching Scheme Credit: 3			**Total Marks: 100**
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	0	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

Duration: 4 Weeks (After Semester IV)

COURSE OVERVIEW:

The internship provides students with practical industry experience in an interior design-related field. This hands-on exposure allows them to apply theoretical knowledge, develop professional skills, and gain insights into real-world design practices.

OBJECTIVES:

- Gain industry exposure and understand workplace dynamics.
- Apply interior design concepts in real-world projects.
- Develop professional communication, teamwork, and problem-solving skills.
- Build a portfolio with industry-relevant work.

ASSESSMENT CRITERIA

1. **Internship Report (10 Marks)** – A detailed report covering the student's role, tasks, key learnings, and project contributions.
2. **Portfolio Submission (20 Marks)** – A collection of work done during the internship, including sketches, drawings, renderings, or other design-related outputs.
3. **Internship Company Review (10 Marks)** – A self-assessment by the student on their experience, company structure, work environment, and professional growth.

IP502 MINOR PROJECT- RESEARCH AND STUDY LAB

Assessment Criteria	Marks
Topic Selection & Proposal	10
Case Study & Research Documentation	15
Final Report & Presentation	15
GRAND TOTAL	**40**

NAME OF THE SUBJECT :			MINOR PROJECT- RESEARCH AND STUDY LAB
Course code: IP502			**Semester: Fifth**
Teaching Scheme Credit:	1		**Total Marks: 100**
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	2	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

Course Objectives:

This course is designed to guide students in selecting a suitable research topic for their thesis. It introduces fundamental research methods, case study analysis, and data collection techniques. The objective is to help students develop a structured research approach, laying the groundwork for their thesis in the following semester.

Learning Outcomes:

By the end of this course, students will be able to:

- Identify and finalize a relevant research topic for their thesis.
- Conduct basic research using books, online sources, and real-world examples.
- Analyze case studies to understand trends, techniques, and design approaches.
- Organize collected information in a clear and structured manner.
- Present their research findings effectively through reports and presentations.

Course Content:

Module 1: Understanding Research & Topic Selection |10 Marks

Students will be introduced to the importance of research in design and how to select a strong topic for their thesis. They will learn how to gather relevant information from reliable sources, formulate research questions, and outline their initial study framework. The focus will be on guiding them toward meaningful and practical research areas.

Module 2: Case Studies & Data Collection | 15 Marks

This module emphasizes studying real-world projects and analyzing existing designs relevant to their chosen topic. Students will learn how to collect, compare, and organize data from different case studies. They will explore different research methods and documentation techniques to ensure a structured approach to their study.

Module 3: Report Writing & Presentation | 15 Marks

In the final module, students will compile their findings into a well-structured research report. They will learn how to summarize key insights, develop logical conclusions, and prepare a visual presentation. The course will conclude with students presenting their research, demonstrating their understanding and preparedness for the next phase of their thesis.

(IDT501) INTERIOR DESIGN WORKSHOP – III

Sl. No	Topic	Marks
1	Expert Lectures & Seminars	10
2	Group Discussions & Analytical Thinking	10
3	Student-Led Activities & Practical Exercises	20
Total		**40**

NAME OF THE SUBJECT : Interior Design Workshop – III	
Course code: IDT501	Semester: Fifth
Teaching Scheme	Total Marks:100
	PA and End Examination Scheme
Theory: 0 hrs/week	Theory PA: 0 marks
Tutorial: 0 hrs/week	Practical End Exam: 40marks
Practical: 2 hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks
Credit: 1	

RATIONALE:

This course is designed to enhance students' practical understanding of interior design by engaging them in research, discussions, and industry interactions. It focuses on skill development beyond theoretical knowledge, equipping students with the ability to analyze, present, and collaborate effectively. The course encourages exploration of professional practices, industry trends, and creative problem-solving through various structured activities.

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

- Conduct independent research and compile relevant information from various sources.
- Present and articulate ideas effectively through seminars and discussions.
- Develop critical thinking and analytical skills through peer interactions and group discussions.
- Gain insights into industry practices through expert lectures and industrial visits.
- Work collaboratively on activities that foster creativity and problem-solving skills.
- Prepare structured reports and documentation based on real-world observations and experiences.

DETAILED COURSE CONTENT:

DETAILED COURSE CONTENT:

1. Expert Lectures & Seminars (**6 Hours | 15 Marks**)

- Organizing guest lectures by professionals, industry experts, or academicians
- Researching and preparing notes on assigned topics related to interior design
- Conducting individual student seminars based on independent research
- Enhancing presentation skills through structured seminar sessions

2. Group Discussions & Analytical Thinking (**8 Hours | 15 Marks**)

9. Conducting structured group discussions on selected topics
10. Encouraging critical analysis and articulation of thoughts in a collaborative setting
11. Topics may include:
    a. Notable architects and interior designers
    b. Evolution of Indian and global architecture
    c. Emerging trends in interior design and construction technology
    d. Sustainability and innovation in design

12. Preparing a brief report summarizing key takeaways from discussions

3. Student-Led Activities & Practical Exercises (**10 Hours | 10 Marks**)

7) Engaging in hands-on activities in teams (3-4 students per group)
8) Activities may include:
    a) Site visits and documentation of real-world projects
    b) Design problem-solving exercises and case studies
    c) Conceptualizing and presenting innovative interior design solutions
    d) Researching new materials, techniques, and sustainable practices
9) Submission of a report documenting observations, findings, and insights gained

INSTRUCTIONAL STRATEGY:

- Faculty will guide students in structuring their research, discussions, and presentations.
- Real-world exposure will be prioritized through expert interactions and site visits.
- Students will be encouraged to develop independent thought and creativity.
- Assessment will be based on participation, research depth, clarity of presentations, and report submissions.

DETAILED THEORY SYLLABUS – SIXTH SEMESTER

(ID601) DESIGN MANAGEMENT AND PROFESSIONAL PRACTICES

Sl. No	Topic	Knowledge (Descriptive)	Comprehension	Application (MCQs/Fill in the Blanks)	Total Marks
1	Introduction to Design Management & Professional Practice	10	5	5	20
2	Project Management & Contracts in Design	10	5	5	20
3	Entrepreneurship & Business Development in Interior Design	10	5	5	20
Grand Total					**60**

NAME OF THE SUBJECT : DESIGN MANAGEMENT AND PROFESSIONAL PRACTICES	
Course code: ID601	Semester: SIXTH
Teaching Scheme Credit: 1	Total Marks: 100 PA and End Examination Scheme
Theory: 1 hrs/week	Theory PA: 40marks
Tutorial: 0 hrs/week	Practical End Exam: 0 marks
Practical: 0 hrs/week	End Semester Theory: 60 Marks Practical PA: 0 Marks

Rationale:

This course equips students with essential knowledge of design management, business practices, and professional ethics in the interior design industry. It prepares them to transition from academics to professional practice by covering project management, client handling, contracts, and entrepreneurship in design.

Course Objectives:

- To introduce students to the fundamentals of design management, including business operations and project execution.
- To develop an understanding of professional ethics, contracts, and legal aspects related to interior design.
- To equip students with knowledge about entrepreneurship, branding, and marketing in the design industry.
- To enhance students' ability to manage projects, teams, and client relationships effectively.

Learning Outcomes:

Upon successful completion of the course, students will be able to:

1. Understand the principles of design management and its role in the industry.
2. Identify key aspects of professional practice, including contracts, client agreements, and legal responsibilities.
3. Develop project management strategies for handling timelines, budgets, and resources.
4. Explore entrepreneurial opportunities in interior design, including branding and business development.
5. Gain insights into effective communication, negotiation, and teamwork in a professional setting.

Course Content:

Module 1: Introduction to Design Management & Professional Practice (20 marks)

- Understanding the role of a designer in a professional setting.
- Overview of design firms, project workflows, and team coordination.
- Business structures: Freelance, partnerships, design firms, and corporate roles.
- Ethics and responsibilities in professional practice.
- **Learning Outcome**: Students will understand the basics of managing a design business and their role in the industry.

Module 2: Project Management & Contracts in Design (20 marks)

- Basics of project management: Time, cost, and quality management.
- Client interaction and handling project briefs.
- Legal aspects: Contracts, agreements, and intellectual property in design.
- Cost estimation and budgeting for interior design projects.
- **Learning Outcome**: Students will learn how to manage projects efficiently while understanding legal and financial aspects.

Module 3: Entrepreneurship & Business Development in Interior Design (20 marks)

- Starting a design business: Registration, finance, and taxation basics.
- Branding and marketing for designers: Social media, portfolios, and networking.
- Client acquisition and building a strong design identity.
- Future trends in the interior design industry and career opportunities.
- **Learning Outcome**: Students will develop entrepreneurial insights and strategies for establishing a successful career in design.

(ID602) PORTFOLIO / DISPLAY

Sl. No	Topic	Progressive Assignment
1	Introduction to Portfolio Design	6
2	Visual Presentation Techniques	7
3	Digital Portfolio and Display	10
4	Physical Portfolio and Exhibition Displays	10
5	Portfolio Review and Critique	7
Total		40

NAME OF THE SUBJECT : PORTFOLIO/DISPLAY			
Course code: ID602			Semester: Sixth
Teaching Scheme Credit:	2		Total Marks: 100 PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam:4 0 marks
Practical:	4	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

Rationale:

A well-structured portfolio is a crucial tool for interior designers to showcase their skills, creativity, and professional expertise. This course helps students develop both physical and digital portfolios, ensuring their work is presented in a visually appealing and organized manner. Through structured learning and hands-on practice, students will refine their presentation skills to create impactful portfolios for job applications, client meetings, and exhibitions.

Course Objectives:

- To guide students in compiling a professional portfolio that effectively showcases their interior design projects.
- To teach students how to create visually appealing and organized presentations for exhibitions and client interactions.
- To help students understand the role of branding, layout, and digital tools in portfolio creation.

Learning Outcomes:

By the end of this course, students will be able to:

1. Develop a professional portfolio that highlights their design skills and range of work.
2. Apply design principles to enhance the visual impact and organization of their portfolio.
3. Create both digital and physical portfolios suited for job applications, exhibitions, and client presentations.
4. Understand the importance of self-presentation and branding in building a successful design career.
5. Confidently present their portfolio to clients, employers, or at exhibitions.

Course Content:

1. Introduction to Portfolio Design (Marks: 6)

- Importance of a well-structured portfolio in interior design careers.
- Key components: Project pages, sketches, renderings, and photographs.
- Organizing a portfolio for different purposes—job applications, client presentations, and exhibitions.

2. Visual Presentation Techniques (Marks: 7)

- Basic design principles for an effective display: balance, contrast, and alignment.
- Selecting and arranging work for maximum impact.
- Use of color, typography, and layout in portfolio presentations.

3. Digital Portfolio and Display (Marks: 10)

- Introduction to digital tools and software for portfolio creation (Adobe InDesign, Canva, etc.).
- Best practices for organizing and presenting digital work.
- Creating an online presence with a professional digital portfolio.

4. Physical Portfolio and Exhibition Displays (Marks: 10)

- Techniques for creating physical portfolios: layout, print quality, and binding.
- Strategies for exhibition display: booth setup, lighting, and material choices.
- Understanding the impact of tactile presentation in portfolio reviews.

5. Portfolio Review and Critique (Marks: 7)

- Peer and instructor reviews to refine portfolios.
- Developing self-presentation skills for portfolio defense and client interactions.
- Preparing for job interviews and client meetings with a strong portfolio presentation.

IP601- INTERNSHIP-II (8 WEEKS AFTER COMPLETING SEMESTER IV)

Assessment Criteria	Marks
Internship Report	10
Portfolio Submission	15
Internship Company Review	15
GRAND TOTAL	40

NAME OF THE SUBJECT :			INTERNSHIP-II
Course code: IP601			**Semester: Sixth**
Teaching Scheme Credit:	4		**Total Marks: 100** **PA and End Examination Scheme**
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	0	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

Duration: 8 Weeks (After Semester IV)

COURSE OVERVIEW

The internship provides students with practical industry experience in an interior design-related field. This hands-on exposure allows them to apply theoretical knowledge, develop professional skills, and gain insights into real-world design practices.

OBJECTIVES

- Gain industry exposure and understand workplace dynamics.
- Apply interior design concepts in real-world projects.
- Develop professional communication, teamwork, and problem-solving skills.
- Build a portfolio with industry-relevant work.

ASSESSMENT CRITERIA

- **Internship Report (10 Marks)** – A detailed report covering the student's role, tasks, key learnings, and project contributions.
- **Portfolio Submission (15 Marks)** – A collection of work done during the internship, including sketches, drawings, renderings, or other design-related outputs.
- **Internship Company Review (15 Marks)** – A self-assessment by the student on their experience, company structure, work environment, and professional growth.

IP602- MAJOR PROJECT (FINAL)

Assessment Criteria	Marks
Research, Site Analysis & Concept Development	10
Module 2: Design Development & Technical Documentation	15
Final Presentation & Report Submission	15
Grand Total	**40**

NAME OF THE SUBJECT : MAJOR PROJECT			
Course code: IP602			**Semester: Sixth**
Teaching Scheme Credit:	3		**Total Marks: 100**
			PA and End Examination Scheme
Theory:	0	hrs/week	Theory PA: 0 marks
Tutorial:	0	hrs/week	Practical End Exam: 40 marks
Practical:	6	hrs/week	End Semester Theory: 0 Marks Practical PA: 60 Marks

Course Objectives:

This course serves as the culmination of the students' academic journey in interior design, allowing them to apply their knowledge and skills to a comprehensive thesis project. It focuses on independent research, design development, and project execution. Students will refine their chosen thesis topics, conduct advanced case studies, develop conceptual and technical designs, and present a complete, well-documented final project.

Learning Outcomes:

By the end of this course, students will be able to:

1. Develop and execute a well-researched design thesis that demonstrates creativity, critical thinking, and technical competence.
2. Conduct in-depth case studies, site analysis, and user research to support design decisions.
3. Create conceptual and schematic designs that align with their research findings.
4. Develop detailed technical drawings, 3D visualizations, and material specifications.
5. Present and defend their final project with a professional report and visual presentation.

Course Content:

Module 1: Research, Site Analysis & Concept Development *(Marks: 10)*

Students will refine their thesis topics, conduct site analysis, and collect relevant data. This includes advanced case studies, understanding client/user needs, and formulating a strong design concept. The focus will be on integrating research findings into a clear and structured design direction.

Module 2: Design Development & Technical Documentation *(Marks: 15)*

This module will involve translating research into design solutions. Students will create schematic designs, spatial planning layouts, material boards, and structural details. They will develop technical drawings such as floor plans, elevations, sections, and 3D renderings to present a fully developed project.

Module 3: Final Presentation & Report Submission *(Marks: 15)*

The final stage involves compiling all work into a professional report and portfolio. Students will prepare and deliver a detailed presentation, including design rationale, research insights, technical details, and visualizations. They will be assessed on clarity, coherence, and their ability to defend their design decisions.

This major project is a critical step toward professional practice, allowing students to showcase their ability to handle a complete design process from research to execution.