



Central University of Rajasthan

B.Des (Interior Design)
(Level 6 Eight Semesters)

B. Voc. (Interior Design)
(Level 5.5 Six Semesters)

Academic Year 2025-26

Scheme and Syllabus

(Revised As per NCrf)

11 Nov. 2025

Programme: Level 6- B.Des (Interior Design)
Level 5.5- B. Voc. (Interior Design)
Level 5- Diploma in Interior Design
Level 4.5- Certificate in Interior Design

Preamble:

With the Nation poised to become a five-trillion-dollar economy, demand for infrastructure and buildings for commercial, industrial, institutional, and residential uses will substantially increase, not only in metro towns but also in tier two and tier three towns. A large number of existing buildings will be renovated and refurbished according to changing demands. With rising per capita income, demand is growing for functional, comfortable, cost-effective, and aesthetically pleasing interiors. Increased awareness of the quality of interior spaces across all spheres of activity has increased demand for Interior Design Professionals. There is a growing demand for competent professionals and skilled technical associates in the building and interior industry.

Private practices of Architects and Interior Designers, construction and interior decoration firms, furniture and furnishing houses, and manufacturers and vendors of interior and building products all seek competent professionals who can work at the cutting edge in a professional manner.

This programme is designed to cater to the demands of professionally trained human resources in the field of Interior Design.

The programme is highly relevant for all those who want to pursue a professional career in Interior Design practice, the building industry, or the marketing of interior design products, etc.

Degree holders can also pursue higher studies in programmes that require UG qualifications, subject to the specific programme's eligibility criteria.

Aim:

- The programme aims to build individual capacities and train persons with adequate employability skills at each level of exit. The programme structure attempts to blend appropriate technical knowledge and skills, personal and professional skills, and substantive 'hands-on' and field/site experience required in the trade.
- Keeping in view the demands of the market and to provide flexible options for students, the programme is designed in a modular manner and allows entry and exit options at various levels. The learners will have the flexibility to develop themselves according to their strengths and career interests.

Duration: 8 Semesters (4 years). This four-year full-time programme is divided into eight semesters. In addition, all students are expected to undertake an internship/project for 4-8 weeks after the end of the second and fourth semesters, which may continue during the summer breaks.

Eligibility: Entry to First Year - 12th pass in any discipline;
Lateral entry may be offered on a limited seats at various levels, subject to fulfillment of eligibility requirements for admission at the respective level by the University.

Admission: As per the University policy. Lateral entry is subject to the equivalence of entry-level qualifications and a qualifying entrance test at the level for which admission is being granted.

Programme Structure:

The programme is proposed with a modular structure that gives an exit option after every year with employable skills at the end of each module.

The four modules are as under:

➤ **Certificate in Interior Design (One Year) Level 4.5 as per NCrf**

Programme Outcome: A person having adequate skills to work as an **Assistant** to a professional Interior designer.

Learning outcomes: After successful completion of this module and some additional practice, the student should be equipped to:

- a. Make drawings after measurement of spaces and gather basic site information with help of notes and pictures.
- b. Appreciate the role of basic design elements to prepare well-composed presentation drawings and office documents.
- c. Make simple presentation drawings for architectural and interior design works using computer software.
- d. Perform basic office functions - maintain a record of drawings and files, record of drawings, and keep an account of routine expenses.
- e. Communicate pleasantly with visitors to the office using correct terminology related to interior design work, make notes, and write simple letters.
- f. Prepare layouts of interiors of small spaces like apartments, houses, shops, small offices, etc.

➤ **Diploma in Interior Design (Two Year) Level 5 as per NCrf**

Programme Outcome: A person having adequate skills to work as '**Technical Assistant**' to a professional Interior designer

Learning Outcomes: After successful completion of this module and some additional practice the student should be equipped to:

- a. Take measurements of spaces and small buildings, document services, and other site conditions sufficient to commence interior design work.
- b. Make presentation drawings, including three-dimensional views, for architectural and interior design works using computer software.
- c. Appreciate the importance of arts and crafts and their role in interior design.
- d. Undertake functional space planning of medium-scale interior spaces with due regard to basic services.
- e. Make basic working drawings of interior spaces.
- f. Read drawings of services and structures and appreciate various functional requirements of the same for integration in interior designs and drawings.
- g. Appreciate the use of interior products, their availability in the market, and sourcing from vendors.
- h. Communicate pleasantly in person and on phone with the clients /customers using appropriate vocabulary used by interior designers, write emails, and undertake basic secretarial work.

➤ **B.Voc. (Interior Design) (Three Year) Level 5.5 as per NCrf**

Programme Outcome: A person having skills to work as a **Technical Associate** to a professional Interior designer or work as a ‘multi-tasking’ technical person in an organization serving the interior design trade.

Learning Outcomes: After successful completion of this module and some additional practice the student should be equipped to:

- a. Prepare documents, including measure drawings of the site, site-related information, photographs, etc, sufficient to undertake the design of interiors and small buildings.
- b. Make presentations, including drawings and perspectives, for computer-aided presentations for the clients /customers.
- c. Make working drawings and coordinated services’ drawings for site execution.
- d. Assist in the preparation of the bill of quantities, measurement of executed interior works, and its billing.
- e. Coordinate and supervise implementation of designs on site as per drawings and specifications and report basic defects.
- f. Appreciate the use of interior products, their availability in the market, and sourcing from vendors.
- g. Prepare basic interior designs of small and medium scale interior spaces like houses, apartments, commercial spaces, exhibition and shop displays, etc with due regard to aesthetics and basic services.
- h. List and coordinate procurement of modular furniture, interior fit-outs, exhibition stalls etc.
- i. Support running and management of a small business enterprise and design practice.

➤ **B.Des. (Interior Design)(Four Year) Level 6 as per NCrf**

Programme Outcomes:

1. An academically sound professional with research orientation who can work as an independent Interior Design Professional.
2. Develop interior designs of buildings that involve substantial MEP services, illumination design, building automation systems, and acoustics.
3. Make professional presentations before a formal audience using various 3D generating software.
4. Make working drawings and coordinated services’ drawings for large interior projects.
5. Prepare tender documents for the procurement of goods and services and the award of interior design-related works.
6. Coordinate with consultants and construction agencies and supervise the execution of interior design works.
7. Undertake research work in the field of design and write reports.
8. Manage a design practice or any other related small-scale enterprise.

Structure for the Four-Year (Eight Semester) B.Des. (Interior Design) Programme

SEMESTER-I (Total Credits = 20)						
COURSE CODE	COURSES	No. of Contact Hours Per Week			CREDITS	Course Type / Examination Pattern
		L	P/S	T		
4.5BID 01	Basic Mathematics	2	0	2	4	Theory
4.5BID 02	Introduction to Design and Arts	1	6	0	4	Practical
4.5BID 03	Introduction to Building Materials & Construction	4	0	0	4	Theory
4.5BID 04	Architectural & Interior Drawing-I	1	6	0	4	Practical
4.5BID 05	Communication Skills-I	2	0	0	2	Theory
4.5BID 06	Basic Computer Application-I	1	2	0	2	Practical
TOTAL		11	14	2	20	

SEMESTER-II (Total Credits = 20)						
COURSE CODE	COURSES	No. of Contact Hours Per Week			CREDITS	Course Type / Examination Pattern
		L	P/S	T		
4.5BID 07	Measure Drawing of Spaces & Buildings	1	4	1	4	Practical
4.5BID 08	Interior Studio-I	2	6	0	5	Studio/ Practical
4.5BID 09	Architectural & Interior Drawing -II	1	4	1	4	Practical
4.5BID 10	Basics of Office Management	2	0	0	2	Theory
4.5BID 11	Spatial and Furniture Design: A Historical Perspective	3	0	0	3	Theory
4.5BID 12	Onsite Learning Sessions -I	0	4	0	2	Practical
TOTAL		9	18	2	20	

*Onsite Learning Session -I consists of exposure visits to interior design and construction work with a focus on products and services related to interiors.

L- Lecture / Integrated Learning Sessions, S- Studio / Lab / On-site/Field session, Tutorial;
 (Each unit of 55 minutes).

SEMESTER-III (Total Credits = 20)						
COURSE CODE	COURSES	No. of Contact Hours Per Week			CREDITS	Course Type / Examination Pattern
		L	P/S	T		
5BID 13	Computer Applications-II	1	2	1	3	Practical
5BID 14	Materials & Products for building interiors-I	2	2	0	3	Theory
5BID 15	Interior Design Studio-II	2	6	0	5	Practical
5BID 16	Introduction to Specifications	2	0	0	2	Theory
As per Elective	Departmental Elective(s)	*	*	*	2	*As per course design
5BID 17	Onsite Learning Sessions-II	0	4	0	2	Practical
5BID 18	Practical Training-I	0	6	0	3	Practical
TOTAL		7+*	20+*	1+*	20	

*Students may choose any one of the following courses as Departmental Elective:

- 5BID E1 – Photo Documentation
- 5BID E2 – Introduction to Modular Ceilings
- 5BID E3 – Introduction to Tile Flooring

****Onsite Learning Session -II** consists exposure visits to interior design projects and markets with focus on artworks, local crafts, artifacts and interior design related Products.

*****Practical Training-I:** After the completion of Semester II, each student is required to undergo a Practical/Field Training during the summer vacation period for a minimum duration of four to six weeks. The training may be in the form of an internship or Skill-Based Field Training under product manufacturers, contractors, interior designers, architects' offices, or any other relevant organization as approved by the Programme Coordinator or Head of Department (HoD). In Semester-III, the student shall prepare a detailed report of the training undertaken and appear for a viva-voce examination based on the work completed, to be conducted by internal/external jury members.

SEMESTER-IV (Total Credits = 20)						
COURSE NO.	COURSES	No. of Contact Hours Per Week			CREDITS	Course Type / Examination Pattern
		L	P/S	T		
5BID 19	Computer Applications-III	1	2	1	3	Practical
5BID 20	Traditional & Contemporary Interiors, Arts & its Appreciation	3	0	0	3	Theory
5BID 21	Interior Design Studio - III	2	6	0	5	Practical
5BID 22	Basics of Estimation, Costing & Quantity Surveying	2	0	2	4	Theory
5BID 23	Activity Sequencing and Check List for Interior Works	2	0	0	2	Theory
5BID 24	Presentation Skills	1	2	1	3	Practical
TOTAL		11	10	4	20	

L- Lecture / Integrated Learning Sessions, S- Studio / Lab / On site /Field session, T- Tutorial;
(Each unit of 55 minutes).

SEMESTER-V (Total Credits = 20)						
COURSE NO.	COURSES	No. of Contact Hours Per Week			CREDITS	Course Type / Examination Pattern
		L	P/S	T		
5.5BID 25	Supervisory Skills	2	0	0	2	Theory
5.5BID 26	Interior Design Studio -IV	2	6	0	5	Practical
5.5BID 27	Preparing Bill of Quantities	2	0	2	4	Theory
5.5BID 28	Managing Small Business Enterprise	2	0	0	2	Theory
As per Course	Departmental / Generic Elective Course(s)	*	*	*	2	Theory or Practical as per the course
5.5BID 29	Onsite Learning Sessions-III	0	4	0	2	Practical
5.5BID 30	Practical Training-II	0	6	0	3	Practical
TOTAL		8+*	16+*	2+*	20	
*Students may choose any one of the following courses as Departmental Elective/ Generic Elective: • 5.5BID E1 – Modular Furniture & Kitchen Design • 5.5BID E2 – Lighting Design for Interior Spaces • 5.5BID E3 – Retail & Visual Merchandising Design • Courses offered by another departments/ NPTEL/ MOOC **Onsite Learning Session -III Focus on Advanced Building Services and reading coordinated services drawings. *** Practical Training-II: After the completion of Semester IV, each student is required to undergo a Practical/Field Training during the summer vacation period for a minimum duration of four to six weeks. The training may be in the form of an internship or Skill-Based Field Training under product manufacturers, contractors, interior designers, architects' offices, or any other relevant organization as approved by the Programme Coordinator or Head of Department (HoD). In Semester-V, the student shall prepare a detailed report of the training undertaken and appear for a viva-voce examination based on the work completed, to be conducted by internal/external jury members.						

SEMESTER-VI (Total Credits = 20)						
COURSE NO.	COURSES	No. of Contact Hours Per Week			CREDITS	Course Type / Examination Pattern
		L	P/S	T		
5.5BID 31	Health, Safety & Environment	3	0	0	3	Theory
5.5BID 32	Interior design project-I	2	8	0	6	Practical
5.5BID 33	Measurement & Billing	1	2	0	2	Practical
5.5BID 34	Professional Behavior, Etiquettes and Ethics	3	0	0	3	Theory
5.5BID 35	Basics of Interior Project Management	2	0	0	2	Theory
As per Course	Departmental / Generic Elective Course(s)	*	*	*	4 (from one or more courses)	Theory or Practical as per the course
TOTAL		11+*	10+*	*	20	
*Students may choose any one of the following courses as Departmental Elective/ Generic Elective: • 5.5BID E4 – Exhibition & Experience Design • 5.5BID E5 – Universal Design & Barrier-Free Interiors • 5.5BID E6 – Energy Efficient Interiors • Courses offered by other departments/ NPTEL/ MOOC *Interior Design Project-I: The end-semester examination for Interior Design Project-I shall be conducted by an external examiner appointed from a panel approved by the School Board and duly ratified by the competent authority. L- Lecture / Integrated Learning Sessions, S- Studio / Lab / On-site/Field session, T- Tutorial; (Each unit of 55 minutes).						

SEMESTER-VII						(Total Credits = 20)
COURSE NO.	COURSES	No. of Contact Hours Per Week			CREDITS	Course Type / Examination Pattern
		L	P/S	T		
6BID 36	Building Services	2	0	1	3	Theory
6BID 37	Research Methods and Academic Writing	2	0	1	3	Theory
As per Course	Departmental / Generic Elective Course(s)	*	*	*	4 (from one or more courses)	Theory or Practical as per the course
6BID 38	Interior design project-II	1	14	2	10	Practical
TOTAL		5+*	14+*	4+*	20	

*Students may choose any one of the following courses as Departmental Elective/ Generic Elective Course(s):

- 6BID E1 – Interior Conservation & Adaptive Reuse
- 6BID E2 – Interior Landscape Design
- 6BID E3 – Furniture Design & Prototyping
- Courses offered by another departments/ NPTEL/ MOOC

***Interior Design Project–II:** The end-semester examination for Interior Design Project–II shall be conducted by an external examiner appointed from a panel approved by the School Board and duly ratified by the competent authority.

L- Lecture / Integrated Learning Sessions, S- Studio / Lab / On-site/Field session, T- Tutorial;
(Each unit of 55 minutes).

SEMESTER-VIII					(Total Credits = 20)
COURSE NO.	COURSES	No. of Contact Hours Per Week		CREDITS	Course Type / Examination Pattern
6BID 39	Practical Training-III	15 weeks		20	Industry Guided
TOTAL				20	

* The result for Semester VIII will be declared only after the successful completion of Practical Training–III.

**** Practical Training–III:** The entire Semester VIII shall comprise a Practical/Field Training of a minimum duration of 15 weeks. Each student is required to undergo this training during the semester. The training may be in the form of an Internship or Skill-Based Field Training under product manufacturers, contractors, interior designers, architects' offices, or any other relevant organization as approved by the Programme Coordinator or Head of Department (HoD).

During the course of training, students shall appear for CIA–I and CIA–II as part of the Continuous Internal Assessment process. Upon completion of the training, each student shall prepare a detailed report and appear for a viva voce examination conducted jointly by an internal faculty member and an external jury member. For the viva-voce (total 60 marks), the internal faculty member shall award 40% of the marks, and the external jury member shall award 60% of the marks during the end-semester examination of Semester VIII.

Assessment: As per university/ AICTE norms

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Course Code: 4.5BID 01		
Name of Course: Basic Mathematics		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 4 Hour/ Week	Total Marks Allocated: 100	Theory: 4
Studio /Practical: 0 Hours /Week	End Semester Examination: 60% Internal Assessment: 40%	Practical/ Studio Work: 0
		Total Credits: 4
Course Objectives:		
- Use mathematics as a tool to analyze data and make informed decision in day to day professional work. - Calculate area, distances, perimeters, volumes as applicable to measurements of various components of buildings and interiors. - Develop simple formulae used in CAD and Spreadsheet		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Convert and apply relationships among fractions, decimals, and percentages in professional calculations.		
CO2: Apply commercial mathematics concepts such as simple and compound interest to cost estimation and budgeting tasks.		
CO3: Analyze and interpret data using statistical measures to support evidence-based design decisions.		
CO4: Construct and utilize geometric elements for accurate measurement and drafting in design drawings.		
CO5: Compute area, perimeter, volume, and surface area of simple figures and solids for design and quantity estimation purposes.		
Course Content:		
UNIT-I	- Relationship between fractions, decimals, and percents. - Simple Interest and Compound Interest.	(15 Hours)
UNIT-II	- Mean, median, mode & range. - Measure, identify & draw angles, perpendicular & parallel lines, concepts of intersection, bisection, division of lines & angles.	(15 Hours)
UNIT-III	- Formula for area and perimeter (Basic shapes). - conversions from FPS to the Metric system	(15 Hours)
UNIT-IV	Formula for Volume and Surface Area. (Simple Problems) NOTE: The instructor will develop exercises based on routine interior design office activities, such as calculating the area of a space, carpet area, and super built-up area, and ordering quantities (e.g., the number of boxes of tiles required, the area and weight of stone to be ordered, etc.). Parallel attempts will be made to complete these exercises in a separate spreadsheet-based course.	(15 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End-of-course assessment of 60% marks, consisting of a written exam.	
Text Books:		
- B.S. Grewal – <i>Higher Engineering Mathematics</i>, Khanna Publishers, New Delhi. - R.S. Aggarwal – <i>Objective Mathematics</i>, S. Chand Publications.		

- N. D. Bhatt – *Elementary Engineering Drawing and Geometry*, Charotar Publishing House.
- Er. M. A. Shoukat – *Mathematics for Architecture and Interior Design*, Dreamtech Press.

Reference Books:

- H. Schenk – *Mathematics for Architects and Builders*, McGraw-Hill Book Company.
- Peter Rich & Adolfo Natalini – *Basic Geometry in Design*, Laurence King Publishing.
- S.C. Gupta & V.K. Kapoor – *Fundamentals of Mathematical Statistics*, Sultan Chand & Sons.
- Francis D.K. Ching – *Building Construction Illustrated*, Wiley. (for applied geometry and measurement references)

E- Resources:

- <https://nptel.ac.in/courses/111105093>
- <https://www.khanacademy.org/math>
- <https://ocw.mit.edu>
- <https://www.geogebra.org>

CO-PO Mapping:

	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	3	3
PO 2	2	2	2	3	3
PO 3	1	1	2	2	2
PO 4	2	2	2	3	3
PO 5	1	3	2	2	3
PO 6	1	2	2	3	3
PO 7	2	2	3	2	2
PO 8	1	3	2	2	3

0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance

Course Code: 4.5BID 02		
Name of Course: Introduction to Design and Arts		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100	Theory: 01
Studio /Practical: 06 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 03
	Internal Assessment: 40	Total Credits: 04
Course Objectives:		
- Explain the basic elements and principles of design. - Prepare compositions in different mediums, colors, and textures. - Describe and appreciate the aesthetic expressions in various art forms.		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Demonstrate understanding of the basic elements and principles of design.		
CO2: Develop creative compositions using various media and materials.		
CO3: Analyze and interpret aesthetic expressions across different art forms.		
CO4: Apply design principles in two-dimensional and three-dimensional works.		
Course Content:		
UNIT-I	- Introduction to Design – Meaning and Importance of Aesthetics. - Sensitization towards Art –Understanding Visual, Music, and Dance. - Relationship of Art and Design with Human Perception and Spatial Experience.	(20 Hours)
UNIT-II	- Design Components – Shape, Texture, Color, Form, and Space. 2D Compositions using Various Media. - Application of Elements in Visual Communication.	(30 Hours)
UNIT-III	- Principles of Design – Proportion, Symmetry, Repetition, Harmony, Contrast, Dominance, Balance, Dynamism, Rhythm, etc. - Application of Principles in Interior Design. - Analysis of Artworks and Interiors using Design Principles.	(30 Hours)
UNIT-IV	- Practical Exercises – Creating 2D & 3D Models using Various Materials. - Qualities of Good Visual Design through Photographs, Artworks, and Interiors. - Studio Exercises: Creative Composition, Form, and Material Exploration.	(25 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End of course assessment of 60% marks based on the Evaluation of submissions by the Jury.	
Text Books:		
- Wong, Wucius. <i>Principles of Two-Dimensional Design</i>. Van Nostrand Reinhold. - Itten, Johannes. <i>The Art of Color</i>. John Wiley & Sons.		
Reference Books:		
- Lidwell, William, et al. <i>Universal Principles of Design</i>. Rockport Publishers. - Arnheim, Rudolf. <i>Art and Visual Perception: A Psychology of the Creative Eye</i>. University of California Press. - Lauer, David A., and Stephen Pentak. <i>Design Basics</i>. Cengage Learning.		
E- Resources:		

- www.designprinciplesft.edu
- www.theartstory.org
- NPTEL Lectures on Design Fundamentals and Aesthetics

CO-PO Mapping:

	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	3	3
PO 2	1	2	1	2
PO 3	2	3	2	3
PO 4	1	1	1	2
PO 5	0	1	1	1
PO 6	1	2	1	2
PO 7	2	2	3	2
PO 8	1	2	2	2

0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance

Course Code: 4.5BID 03		
Name of Course: Introduction to Building Materials & Construction		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 04 Hour/ Week	Total Marks Allocated: 100	Theory: 04
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 04
Course Objectives:		
- Describe the basic terminology used by architects and interior designers. - Identify various elements of buildings and interiors in drawings and real-life situations and describe them using professional terminology. - Explain the nature and application of building materials and products used in interiors. - Identify regional vendors of basic interior products routinely used in the interiors of homes and shops.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Understand and use architectural and interior construction terminology effectively. CO2: Recognize and describe different components of buildings and interiors through observation and drawings. CO3: Classify and apply basic building materials used in interior construction and finishing. CO4: Explore locally available building materials and vendor networks relevant to interior projects.		
Course Content:		
UNIT-I	Building Terminology and Components: - Terminology and nomenclature of various parts of buildings and interiors – from foundation to roof. - Structural and non-structural components – foundation, plinth, wall, column, beam, slab, roof, staircase, openings, and finishes. - Representation of building elements in architectural drawings. - Field visits to identify and document construction components.	(15 Hours)
UNIT-II	Materials and Products Used in Interiors - Introduction to interior materials: Timber, Plywood, Particle Boards, MDF, Laminates, Veneers, Tiles (floor and wall), Marble, Sandstone, POP, Paints, and Textiles. - Characteristics, sizes, finishes, and applications of each material. - Criteria for material selection – durability, aesthetics, maintenance, and cost.	(15 Hours)
UNIT-III	Basic Construction Materials and Processes - Introduction to materials used in building construction: Bricks (Clay and Fly-ash), Hollow Blocks, Stones, Cement, Lime, Mortar, Concrete, Steel (Mild & Stainless), and Aluminum. - Basic understanding of construction processes – masonry, plastering, flooring, roofing, and joinery. - Introduction to PVC and GI pipes and their applications in interiors.	(15 Hours)
UNIT-IV	Practical and Field Applications (15 Hours) - Documentation of local materials, vendors, and product catalogues. - Preparation of a material portfolio with samples, data sheets, and photographs. - Case study of a small residential or commercial interior highlighting material usage and construction details. - Studio exercises – drafting details and 3D model representations of interior construction elements.	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End-of-course assessment of 60% marks based on the written exam.			
Text Books:				
- Sushil Kumar. <i>Building Construction</i>. Standard Publishers. - Rangwala, S.C. <i>Engineering Materials</i>. Charotar Publishing House. - Arora, S.P. & Bindra, S.P. <i>Building Construction</i>. Dhanpat Rai Publications.				
Reference Books:				
- W.B. McKay. <i>Building Construction Series (Vol. 1–4)</i>. Longman Group. R. Chudley. <i>Construction Technology</i>. Pearson Education. - Francis D.K. Ching. <i>Building Construction Illustrated</i>. Wiley.				
E- Resources:				
- NPTEL – Building Materials & Construction - www.constructiondetail.net - www.materialdistrict.com www.archdaily.com				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	2	1
PO 2	2	3	3	2
PO 3	1	1	1	1
PO 4	2	3	2	1
PO 5	1	1	2	3
PO 6	2	2	3	3
PO 7	1	1	1	2
PO 8	1	1	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 4.5BID 04		
Name of Course: Architectural & Interior Drawing-I		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 1 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 1
Studio /Practical: 6 Hours /Week		Practical/ Studio Work: 3
		Total Credits: 4
Course Objectives:		
• Prepare drawings by using drafting tools and accessories. • Comprehend and visualize geometric forms. • Understand the concept of scale and proportions in design representation. • Initiate computer-aided drafting (CAD) for simple 2D drawings.		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Identify and use drafting instruments effectively to produce accurate technical drawings.		
CO2: Construct geometric forms and projections manually using standard drawing conventions.		
CO3: Interpret and draw orthographic projections of points, lines, planes, and simple solids.		
CO4: Apply basic CAD tools to create 2D architectural drawings such as plans, elevations, and sections.		
Course Content:		
UNIT-I	Introduction to Drafting Tools and Sketching • Drawing instruments and their uses. • Sheet layout and sketching. • Concept of lettering – drafted and freehand architectural lettering. • Types of lines, line weights, and dimensioning standards.	(15 Hours)
UNIT-II	Scales and Geometric Constructions (15 Hours) • Understanding scale, proportion, and measurement systems. • Scales. • Division of lines and angles. • Drawing polygons, inscribing, and circumscribing circles in polygons.	(25 Hours)
UNIT-III	Orthographic Projections • Concept of projection – first angle and third angle methods. • Projection of points and lines in different positions. • Projection of planes and simple solids (cube, prism, pyramid). • Conversion of pictorial views into orthographic drawings. • Practice sheets for plan, elevation, and section generation.	(30 Hours)
UNIT-IV	Computer-Aided Drafting (CAD) Basics • Basic commands – line, circle, offset, trim, extend, mirror, array, hatch, and dimensioning. • Creating and plotting 2D drawings – plan, elevation, and section of small spaces (e.g., bedroom, shop). • Layer management and annotation.	(35 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End of course assessment of 60% marks based on the practical drawing exam /Jury.	

Text Books:				
Reference Books:				
- Ching, F.D.K., <i>Architectural Graphics</i>, Wiley. - Simmons & Maguire, <i>Manual of Engineering Drawing</i>, Butterworth-Heinemann. - Jeyapoovan, T., <i>Engineering Drawing and Graphics Using AutoCAD 2021</i>, Vikas Publishing.				
E- Resources:				
https://www.geogebra.org https://www.autodesk.com/education https://www.tutorialspoint.com/autocad/ - YouTube Channels: The CAD Setter Out, SourceCAD.				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	2	2	2
PO 2	1	1	2	3
PO 3	1	0	1	3
PO 4	2	3	3	3
PO 5	0	0	0	0
PO 6	2	2	2	2
PO 7	0	0	1	1
PO 8	0	0	0	1
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 4.5BID 05		
Name of Course: Communication Skills-I		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 2 Hour/ Week	Total Marks Allocated: 100	Theory: 2
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- Describe the basic process of communication. - Identify linguistic and non-linguistic components of communication. - Participate effectively in classroom discussions and activities. - Communicate appropriately in both informal and formal contexts.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Explain the communication process and identify its essential elements. CO2: Differentiate between linguistic and non-linguistic components in communication. CO3: Demonstrate effective interpersonal and classroom communication skills. CO4: Use appropriate vocabulary and expressions in academic and professional settings.		
Course Content:		
UNIT-I	Basics of Communication - Communication process – sender, receiver, message, channel, feedback. - Barriers to communication and overcoming strategies. - Introduction to linguistic and non-linguistic components of communication. - Interpersonal oral communication – tone, body language, and listening.	(06 Hours)
UNIT-II	Communication Skills for Academic & Informal Contexts - Listening, questioning, and responding appropriately. - Reading comprehension and note-taking techniques. - Writing skills – organizing and structuring short answers and essays. - Vocabulary development and practical usage in classroom interaction.	(08 Hours)
UNIT-III	Professional Vocabulary & Written Communication - Vocabulary and terminology used in routine office communication for interior designers. - Using dictionaries, thesauruses, and digital tools for vocabulary enhancement. - Writing professional emails, memos, and reports. - Effective participation in group discussions and classroom presentations.	(08 Hours)
UNIT-IV	Applied Communication Practice - Practical exercises in verbal communication-presentations and discussions. - Mock sessions for formal and informal communication. - Role play and simulation for office communication scenarios. - Feedback and reflection sessions for improvement in verbal and written skills.	(08 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on evaluation of written exam.			
Text Books:				
- Raman, M. & Sharma, S. <i>Technical Communication: Principles and Practice</i>. Oxford University Press. - Kaul, A. <i>Effective Business Communication</i>. PHI Learning Pvt. Ltd.				
Reference Books:				
- Lesikar, R.V. & Flatley, M.E. <i>Basic Business Communication</i>. Tata McGraw Hill. - Murphy, H., Hildebrandt, H., & Thomas, J. <i>Effective Business Communication</i>. McGraw Hill.				
E- Resources:				
- www.grammarly.com - www.geogebra.org - www.coursera.org/learn/communication-skills				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	2	2
PO 2	1	1	0	0
PO 3	1	2	3	3
PO 4	1	1	2	1
PO 5	0	0	1	1
PO 6	1	1	1	2
PO 7	2	2	2	2
PO 8	2	2	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 4.5BID 06		
Name of Course: Basic Computer Application-I		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 1 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 1
Studio /Practical: 2 Hours /Week		Practical/ Studio Work: 1
		Total Credits: 02
Course Objectives:		
• Operate computers, printers, and scanners for routine office work. • Prepare basic documents using MS Word, MS PowerPoint, and MS Excel. • Use the Internet effectively for browsing and email communication.		
Course Outcomes:		
CO 1: Demonstrate basic understanding of computer hardware and operating systems.		
CO 2: Create professional documents, spreadsheets, and presentations using MS Office tools.		
CO 3: Utilize the Internet for research, communication, and data sharing.		
CO 4: Apply digital tools for day-to-day office and design documentation work.		
Course Content:		
UNIT-I	Introduction to Computers and Operating Systems • Historical background of computer development • Basics of handling computers and peripheral devices such as printers, scanners, and plotters	(08 Hours)
UNIT-II	File Management and Data Handling • Data storage and retrieval • Creation of directories and files • Understanding file extensions and folder organization	(08 Hours)
UNIT-III	MS Office Applications – Word & Excel • MS Word: Creating simple text documents, formatting, making tables, and inserting pictures • MS Excel: Performing basic calculations, managing & maintaining data	(14 Hours)
UNIT-IV	MS PowerPoint & Internet Basics • Creating presentations using text and images • Basics of Internet usage: browsing, downloading, and using email • Printing documents and presentations	(15 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End-of-course assessment of 60% marks based on the Practical exam.	
Text Books:		
• Sinha, P.K., and Sinha, P., <i>Computer Fundamentals</i>, BPB Publications. • Norton, Peter, <i>Introduction to Computers</i>, McGraw-Hill Education.		

Reference Books:				
- Sanders, Donald, <i>Computers Today</i>, McGraw-Hill. - Microsoft Office Tutorials, Microsoft Press.				
E- Resources:				
www.microsoft.com/learning www.tutorialspoint.com/ms_office www.gcflearnfree.org				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	2	1	2
PO 2	2	3	1	2
PO 3	1	2	3	2
PO 4	0	1	1	1
PO 5	0	0	1	1
PO 6	0	0	0	0
PO 7	0	0	0	0
PO 8	0	0	0	0
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 4.5BID 07		
Name of Course: Measure Drawing of Spaces & Buildings		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 2 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 4 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 02
	Internal Assessment: 40	Total Credits: 04
Course Objectives:		
- To take measurements of buildings/spaces and prepare plans, elevations, and sections. - To prepare scale drawings of measured spaces using computer software. - To develop the ability to read survey maps and measured drawings.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Use traditional and modern measuring tools for documenting interior spaces. CO2: Prepare proportionate freehand measured sketches (Nazari Naksha) on site. CO3: Convert field measurements into accurate scaled drawings manually and in CAD. CO4: Read and interpret survey maps and existing measured drawings.		
Course Content:		
UNIT-I	- Introduction to measured drawing – purpose and importance in interior design. - Measuring tools and traditional methods: measuring tape, folding scale, plumb, water level, spirit level, magnetic compass. - Exposure to laser-based measuring instruments. - Standard methods of recording dimensions and site notes.	(10 Hours)
UNIT-II	- Use of photographs for visual references and documentation. - Techniques of on-site measurement of small residential and commercial & traditional interior spaces. - Preparation of freehand measured drawings (Nazari Naksha).	(25 Hours)
UNIT-III	- Preparation of scale drawings from field data. - Drafting of measured plans, elevations, and sections of interior spaces. - Graphical representation of building components and dimensioning standards.	(25 Hours)
UNIT-IV	- Introduction to reading survey maps. - Reading and interpretation of measured drawings of interior spaces and small buildings. - Preparation of scaled drawings using computer software (CAD).	(30 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) based on: - Field measurement exercises - Freehand sketches - Manual drafting submissions - CAD drawings - Record file / portfolio	
PART-B	PART-B End of course assessment of 60% marks based on evaluation of drawings submitted during the course through Jury.	

Text Books:				
- Shah, Kale & Patki – <i>Building Drawing</i> - Francis D.K. Ching – <i>Architectural Graphics</i> - N.D. Bhatt – <i>Engineering Drawing</i>				
Reference Books:				
- Love, G. – <i>Architectural Working Drawings</i> - Bansal – <i>Surveying & Levelling</i> (for basic understanding) - Kilmer & Kilmer – <i>Construction Drawings and Details for Interiors</i>				
E- Resources:				
- NPTEL – Building Construction & Architectural Drawing - Autodesk Education – AutoCAD tutorials - MIT Open CourseWare – Architectural representation				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	3	2
PO 2	3	2	3	3
PO 3	2	3	3	2
PO 4	2	2	3	1
PO 5	1	1	2	2
PO 6	2	2	2	1
PO 7	1	1	1	2
PO 8	1	1	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 4.5BID 08		
Name of Course: Interior Studio – I		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 2 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 2
Studio /Practical: 6 Hours /Week		Practical/ Studio Work: 3
		Total Credits: 5
Course Objectives:		
- To impart knowledge of interior materials and their selection criteria for various spaces. - To develop an understanding of human scale and anthropometrics in spatial planning. - To enable students to design small functional interior spaces based on user needs. - To introduce building standards, basic structural systems, and interior components. - To develop skills in visualizing form, proportion, and spatial organization.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Apply anthropometric data and human scale in planning small interior spaces. CO2: Select appropriate materials and finishes based on function and performance. CO3: Develop space layouts for simple residential and commercial interiors. CO4: Understand and integrate basic interior construction systems in design. CO5: Present design ideas through drawings, models, and material boards.		
Course Content:		
UNIT-I	Anthropometrics & Human Scale - Introduction to anthropometry and ergonomics. - Human dimensions and space requirements for various activities. - Personal space and activity-based spatial planning. - Standards for furniture and circulation. Studio Exercise: Anthropometric study and design of activity-based layouts.	(30 Hours)
	UNIT-II	
UNIT-III	Interior Construction Systems - Structural systems for small buildings: - Partitions - False ceiling - Panelling & cladding - Mezzanine floor - Introduction to structural systems in urban interiors (malls, exhibition spaces, etc.).	(20 Hours)

	Study of installation manuals and basic codes. Studio Exercise: Preparation of interior layout integrating construction elements.				
UNIT-IV	Spatial Design Exercise - Understanding form – shape, size, and proportion. - Space planning for a small residential/commercial unit. - Development of: - Furniture layout - Zoning - Circulation - Preparation of: - Plans - Basic elevations 3D views/model Final Studio Project: Design of a small functional interior space based on user requirements.	(50 Hours)			
Assessment:					
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) - Studio exercises - Class reviews - Material exploration - Process work - Mid-term jury				
PART-B	End of course assessment of 60% marks based on the Evaluation of submissions by the Jury. Final Jury based on: - Complete design project - Drawings + model + material board - Viva-voce				
Text Books:					
- Neufert – <i>Architects’ Data</i> - Francis D.K. Ching – <i>Interior Design Illustrated</i> - Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i>					
Reference Books:					
- Time Saver Standards for Interior Design - Ernst & Peter Neufert – <i>Architects’ Data</i> - Rosemary Kilmer – <i>Designing Interiors</i>					
E- Resources:					
- NPTEL – Ergonomics & Interior Design - BIS / NBC standards (basic reference)					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	2	3	2	2
PO 2	3	3	3	2	3
PO 3	2	2	3	2	2
PO 4	2	2	3	3	2
PO 5	1	2	2	2	2
PO 6	2	2	2	2	2
PO 7	1	1	1	1	1
PO 8	1	1	2	2	1
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 4.5BID 09		
Name of Course: Architectural & Interior Drawing – II		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 02
Studio /Practical: 04 Hours /Week		Practical/ Studio Work: 02
		Total Credits: 04
Course Objectives:		
- To develop an understanding of the graphical representation of three-dimensional forms. - To prepare metric drawings, sections, and surface developments of solids. - To enhance the visualization and presentation of architectural and interior forms. - To introduce CAD for the preparation of 2D drawings and documentation.		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Construct and represent 3D forms using isometric, axonometric, and pictorial methods.		
CO2: Draw sections of solids and determine the true shape of sections.		
CO3: Prepare the development of surfaces for simple and complex forms.		
CO4: Produce accurate architectural drawings using CAD with proper layering and dimensioning.		
CO5: Present plans, elevations, and sections in professional graphical format.		
Course Content:		
UNIT-I	Metric & Pictorial Drawing - Metric drawing: types, uses, and advantages. - Isometric, axonometric, and pictorial views. - Metric projection and dimensioning. - Metric drawing of plane figures composed of straight lines. - Metric drawing of circles. - Metric drawing of simple and complex blocks.	(20 Hours)
UNIT-II	Sections of Solids - Section planes and sectional views. - True shape of sections. - Sections of prisms, pyramids, cylinders, and cones. - Intersection and interpenetration of solids.	(20 Hours)
UNIT-III	Development of Surfaces & Model Making - Development of lateral surfaces of solids. - Development of truncated solids. - Application in interior components and furniture forms. - Introduction to model making for geometric forms.	(20 Hours)
UNIT-IV	CAD – 2D Drafting & Documentation - Introduction to CAD interface and coordinate system. - Basic drawing and editing commands. - Working with layers, line weights, and annotations. - Preparation of: - Plans - Elevations - Sections - Dimensioning and plotting of drawings. - File formats and data exchange. - Taking printouts using a plotter.	(30 Hours)

Assessment:					
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) consisting of evaluation of drawings prepared & Submitted.				
PART-B	End-of-course assessment of 60% marks based on the Evaluation of drawings submitted during the course.				
Text Books:					
- N.D. Bhatt – <i>Engineering Drawing</i> - Shah, Kale & Patki – <i>Building Drawing</i> - Francis D.K. Ching – <i>Architectural Graphics</i>					
Reference Books:					
- Gill, P.S. – <i>Engineering Drawing</i> - Simmons & Maguire – <i>Manual of Engineering Drawing</i> - Jeyapoovan – <i>Engineering Drawing using AutoCAD</i>					
E- Resources:					
- Autodesk Education – AutoCAD tutorials - MIT OCW – Graphic representation					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	CO 4
PO 1	3	3	2	2	3
PO 2	2	3	2	3	3
PO 3	2	2	2	3	3
PO 4	3	3	3	3	3
PO 5	1	1	2	2	2
PO 6	2	2	2	3	3
PO 7	1	1	1	1	1
PO 8	1	1	1	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 4.5BID 10		
Name of Course: Basics of Office Management		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To understand the organizational structure of an interior designer's office. - To develop skills for managing drawings and office records. - To introduce basic accounting and documentation procedures. - To train students in professional communication and office etiquette. - To develop teamwork and time management skills for design practice.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Describe the structure and workflow of an interior design office. CO2: Apply office management techniques for handling drawings and documents. CO3: Demonstrate professional communication through letters, emails, and reports. CO4: Perform basic accounting and record-keeping for small design firms.		
Course Content:		
UNIT-I	Office Organization & Management - Meaning and importance of office management. - Structure of an interior designer's office. - Roles and responsibilities in a design team. - Time management techniques for design projects.	(06 Hours)
UNIT-II	Office Etiquette & Team Work - Professional behaviour and work ethics. - Office etiquette and interpersonal skills. - Working in small groups and team coordination. - Conduct during client meetings and site visits.	(06 Hours)
UNIT-III	Documentation & Record Management - Maintaining drawing records and document filing systems. - Digital data management and office accessories. - Use of computers for office work. - Preparation of short reports and project documentation.	(08 Hours)
UNIT-IV	Basic Accounting & Professional Communication - Introduction to basic accounting and bookkeeping. - Cash book, vouchers, invoices, and billing basics. - Written communication: - Official letters - Emails - Text messages for professional use - Preparation of simple office correspondence.	(10 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) Based on:			
	• Assignments/report submissions • Quiz/class test • Office documentation exercises • Written communication exercises			
	PART-B			
	End-of-course assessment of 60% marks based on the written examination.			
Text Books:				
• B. N. Tandon – <i>Office Management</i> • A.K. Kumar – <i>Office Management</i> • Francis D.K. Ching – <i>Professional Practice</i> (relevant sections)				
Reference Books:				
• S.C. Sharma – <i>Business Communication</i> • K.K. Sinha – <i>Book Keeping & Accountancy</i> • Time Saver Standards for Interior Design (office practice reference)				
E- Resources:				
• NPTEL – Principles of Management • SWAYAM – Business Communication • Autodesk University – Project workflow & documentation • www.archdaily.com (professional practice sections)				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	1	1
PO 2	2	2	2	1
PO 3	1	1	2	1
PO 4	1	1	2	1
PO 5	1	1	1	1
PO 6	3	3	3	2
PO 7	2	2	2	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 4.5BID 11		
Name of Course: Spatial and Furniture Design: A Historical Perspective		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 03 Hour/ Week	Total Marks Allocated: 100	Theory: 03
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 03
Course Objectives:		
- To understand the evolution of interior spaces and furniture through historical periods. - To study spatial organization and furniture forms in the Indian context. - To analyse the relationship between culture, climate, materials, and interior environments. - To develop visual and analytical skills for interpreting historical interiors.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Describe the spatial characteristics of traditional Indian interiors across different periods. CO2: Identify major furniture forms and their socio-cultural context in India. CO3: Analyse historical interior spaces in terms of planning, materials, and ornamentation. CO4: Compare Indian spatial and furniture traditions with selected global examples.		
Course Content:		
UNIT-I	Spatial Design in Ancient & Early Historic India - Concept of space in traditional Indian settlements. - Interior planning of the Indus Valley Civilization – courtyard houses and bathing spaces. - Spatial organization in Buddhist Viharas and Chaitya halls. - Climate responsiveness and use of local materials.	(10 Hours)
UNIT-II	Interior Spaces in Medieval India - Spatial hierarchy in temple interiors – Garbhagriha and Mandapa. - Interior planning in Mughal and Rajput palaces and havelis. - Elements of interior space making: jali, arches, niches, chhatris. - Surface ornamentation – fresco, inlay, mirror work (overview). - Concept of privacy and socio-cultural influence on space.	(10 Hours)
UNIT-III	Traditional Indian Furniture & Regional Traditions - Concept of built-in and movable furniture in Indian houses. - Floor-based lifestyle and multifunctional furniture. Regional overview (representative examples) North India: Haveli furniture – deewan, bajot, patla, sandook. South India: Wooden furniture of Kerala & Chettinad houses. East / North-East: Cane, bamboo and lightweight furniture. - Influence of climate, materials, and craft traditions. - Adaptation of traditional furniture in modern interiors.	(12 Hours)
UNIT-IV	Global Historical Overview & Modern Movement - Egyptian, Greek and Roman interiors – key characteristics. - European historical styles – Renaissance to Neo-classical (major features only). - Industrial Revolution and change in furniture production. - Modern movement – Bauhaus and Art Deco. - Introduction to modern Indian furniture and interiors.	(13 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on written examination.			
Text Books:				
- Satish Grover – <i>The Architecture of India</i> - Percy Brown – <i>Indian Architecture</i> - John Pile – <i>A History of Interior Design</i>				
Reference Books:				
- Amin Jaffer – <i>Furniture from British India and Ceylon</i> - George Michell – <i>The Hindu Temple</i> - Klaus-Jürgen Sembach – <i>Furniture Design</i> - Miki Desai – <i>Traditional Indian Interiors</i>				
E- Resources:				
- NPTEL – Indian Architecture & Culture - www.indiancraftvillage.org ☐ UNESCO World Heritage documentation (Indian sites)				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	3	2
PO 2	2	2	3	2
PO 3	2	2	2	2
PO 4	1	1	2	2
PO 5	0	1	1	1
PO 6	1	1	2	1
PO 7	3	3	3	2
PO 8	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 4.5BID 12		
Name of Course: Onsite Learning Sessions -I		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 0 Hour/ Week	Total Marks Allocated: 100	Theory: 0
Studio /Practical: 04 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 02
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To provide practical exposure to traditional and contemporary interior spaces. - To understand the nature of interior works, materials, and products used in building interiors. - To familiarize students with market availability and application of interior products. - To develop skills of field documentation through sketches, photographs, and short reports. - To appreciate functional and service integration aspects in real interior environments.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Identify interior components, materials, and products in real projects and market environments. CO2: Document interior spaces through sketches, photographs, and measured notes. CO3: Analyse the functional and technical aspects of simple interior works. CO4: Present field visit studies in the form of structured reports and portfolio sheets.		
Course Content:		
UNIT-I	Exposure to Traditional & Residential Interiors - Guided visits to traditional houses / havelis / culturally significant interiors. - Study of spatial organization and interior elements. - Identification of materials, finishes, furniture, and decorative components. - Sketching and photographic documentation.	(15 Hours)
UNIT-II	Exposure to Contemporary Interior Projects - Visits to residential apartments, offices, retail or hospitality interiors. - Understanding layout, circulation, lighting, and services integration. - Interaction with site supervisors / designers (wherever possible). - Observation of ongoing interior works.	(15 Hours)
UNIT-III	Market Survey – Interior Materials & Products - Visits to showrooms / vendor markets for: - Flooring - Modular furniture - False ceiling systems - Lighting fixtures - Hardware & fittings - Study of product range, specifications, and applications. - Collection of catalogues and technical data.	(15 Hours)
UNIT-IV	Documentation & Presentation - Preparation of field visit reports. - Analytical sketches and photo sheets. - Product information sheets. - Presentation of learning outcomes through portfolio format.	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) • Participation in site visits • Field sketching & documentation • Quiz / viva based on visits • Interim report submissions			
PART-B	End of course assessment of 60% marks based on evaluation of final compiled portfolio including: • Case studies • Product documentation • Field reports • Viva-voce			
Text Books:				
Textbook not essential – field-based course				
Reference Books:				
• Francis D.K. Ching – <i>Interior Design Illustrated</i> • Time Saver Standards for Interior Design • Relevant product catalogues and manufacturer manuals Reference book not essential – field-based course				
E- Resources:				
• www.archdaily.com • www.dezeen.com • Manufacturer websites (for product specifications) • YouTube channels on interior execution & materials				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	3	2	2
PO 3	1	2	2	2
PO 4	2	2	3	3
PO 5	1	1	2	2
PO 6	2	2	2	3
PO 7	2	2	2	2
PO 8	1	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID 13		
Name of Course: Computer Applications-II		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 02 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 01
	Internal Assessment: 40	Total Credits: 03
Course Objectives:		
- To introduce basic photo-editing tools for presentation of interior drawings. - To develop skills for creating 3D models using CAD software. - To understand the workflow of 2D to 3D conversion and perspective views. - To enable students to manage digital drawing files and plotting techniques.		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Use photo-editing software for enhancing drawings and presentations.		
CO2: Create basic 3D models of interior spaces using CAD software.		
CO3: Convert 2D drawings into 3D views and perspective representations.		
CO4: Manage layers, coordinate systems, and file formats for professional digital workflow.		
CO5: Prepare and print drawings using plotter with appropriate settings.		
Course Content:		
UNIT-I	Introduction to Photo Editing for Interior Presentation - Role of image editing in interior design presentations. - Introduction to image editing software (Adobe Photoshop or equivalent). - Basic tools for Image correction, Selection and masking, Text and texture insertion - Post-processing of interior drawings and views.	(15 Hours)
UNIT-II	2D to 3D Conversion & Perspective Views - Concept of 3D visualization in interior design. - Conversion of CAD drawings into 3D models. - Creation of perspective views from 3D models. - Viewing and visual styles for presentation.	(15 Hours)
UNIT-III	CAD – 3D Modelling - Introduction to CAD 3D workspace. - Understanding coordinate systems (UCS/WCS). - Basic 3D commands and their applications. - Creation of simple 3D interior elements: Walls, Furniture, Openings - Working with layers and object properties. - Interface between different software platforms.	(15 Hours)
UNIT-IV	File Management & Plotting Techniques - Digital file formats and their applications. - Importing and exporting between software. - Preparation of presentation sheets. - Plotting and printing using a drawing plotter. - Output settings, scales, and line weights.	(15 Hours)
Assessment:		

PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) • Software-based assignments • 3D modelling exercises • Image editing submissions • Class test/quiz				
PART-B	End of course assessment of 60% marks, consisting Practical examination based on: • Software-based assignments • File management and plotting • Viva-voce				
Text Books:					
• Sham Tickoo – <i>AutoCAD for Interior Design</i> • Rajesh K. Maurya – <i>Mastering Photoshop</i>					
Reference Books:					
• Autodesk – <i>AutoCAD 3D Modelling Guide</i> • Daniel John Stine – <i>Interior Design using AutoCAD</i>					
E- Resources:					
• Autodesk Education tutorials • NPTEL – CAD/CAM courses • LinkedIn Learning – Photoshop for Architecture • SourceCAD / The CAD Setter Out (YouTube)					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	2	3	3	3	2
PO 2	2	3	3	3	2
PO 3	2	3	3	2	2
PO 4	1	2	2	3	3
PO 5	1	2	2	2	2
PO 6	3	3	3	3	3
PO 7	1	1	1	1	1
PO 8	2	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 5BID 14		
Name of Course: Materials & Products for building interiors-I		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 02
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 03
Course Objectives:		
- To acquaint students with building materials used in interior works. - To understand construction techniques and applications of interior materials. - To develop knowledge of material properties, performance, and selection criteria. - To enable students to integrate materials with interior design detailing.		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Identify and classify materials used for interior construction and finishes.		
CO2: Explain the properties and applications of wood and wood-based products.		
CO3: Understand basic construction techniques relevant to interior works.		
CO4: Select appropriate materials for partitions, ceilings, flooring, and acoustics based on performance.		
CO5: Prepare material study sheets and application details for interior projects.		
Course Content:		
UNIT-I	Interior Building Materials & Finishes - Criteria for selection of interior materials. - Materials for False ceiling systems, Partitions, Flooring & Acoustical treatment - Performance requirements: durability, maintenance, fire resistance, and sustainability.	(15 Hours)
UNIT-II	Wood & Wood-Based Products - Properties and classification of timber. - Seasoning and preservation of wood. - Wood-based boards: - Plywood - Block board - MDF - Particle board - Laminates and veneers - Applications in furniture and interior works.	(15 Hours)
UNIT-III	Basics of Interior Construction Techniques - Reinforced Cement Concrete: basic concepts, ingredients, properties, and applications in interiors. - Damp proof course – causes and prevention of dampness. - Brick masonry: terminology, simple bonds, and openings in walls. - Elementary stone masonry and its interior applications.	(15 Hours)
UNIT-IV	Material Detailing & Interior Applications - Junction details for partitions, ceilings, and flooring. - Fixing and installation techniques for interior materials. - Surface finishes and edge treatments. - Preparation of material boards and sample study. - Case studies of material applications in interior spaces.	(15 Hours)

Assessment:					
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)				
PART-B	End of course assessment of 60% marks based on written exam.				
Text Books:					
- S.K. Duggal – <i>Building Materials</i> - B.C. Punmia – <i>Building Construction</i> - Francis D.K. Ching – <i>Building Construction Illustrated</i>					
Reference Books:					
- Time Saver Standards for Interior Design - Edward Allen & Joseph Iano – <i>Fundamentals of Building Construction</i> - W.B. McKay – <i>Building Construction</i>					
E- Resources:					
- NPTEL – Building Materials & Construction - Manufacturer catalogues (Gypsum, laminate, modular systems) - www.bis.gov.in (relevant standards) - www.archdaily.com (material applications)					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	3	2
PO 2	2	2	3	3	2
PO 3	2	2	2	3	3
PO 4	1	1	2	2	2
PO 5	1	2	2	2	2
PO 6	2	2	2	3	2
PO 7	1	1	1	1	1
PO 8	2	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 5BID 15		
Name of Course: Interior Design Studio-II		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 06 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 03
	Internal Assessment: 40	Total Credits: 05
Course Objectives:		
- To develop the ability to design small to medium scale interior spaces based on anthropometric data. - To understand space planning with reference to function, circulation, and ambience. - To design furniture and cabinet work for interior spaces. - To integrate materials, finishes, and basic services in interior layouts. - To present design proposals using drawings, models, and sample boards.		
Course Outcomes:		
CO1: Apply anthropometric and ergonomic principles in space planning. CO2: Develop functional layouts for small residential and commercial interior spaces. CO3: Design basic furniture and cabinet details for specific user requirements. CO4: Select and apply appropriate materials and finishes for interior environments. CO5: Present complete interior design proposals through drawings, 3D views, and material boards.		
Course Content:		
UNIT-I	Ambience & User Requirement Analysis - Concepts of ambience in interior spaces. - Visual perception and spatial experience. - User profiling and activity analysis. - Case studies through photographs and site visits.	(20 Hours)
UNIT-II	Furniture & Cabinet Design - Design of storage and furniture units for Bedroom, Living room, Kitchen, Office/retail / clinic (any one) - Standard dimensions and construction considerations. - Integration with walls, partitions, and services.	(30 Hours)
UNIT-III	Interior Layout Planning - Layout planning for a Small house /apartment /Shop /office /clinic (any one) - Circulation, zoning, and spatial hierarchy. - Integration of basic services (lighting, electrical points).	(35 Hours)
UNIT-IV	Material Application & Design Presentation - Selection of materials and finishes. - Preparation of sample boards and colour schemes. - Introduction to 3D views for interior presentation. - Compilation of a complete design project.	(35 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End of course assessment of 60% marks based on the Evaluation of submissions by the Jury.	

Text Books:					
Reference Books:					
- Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> - Francis D.K. Ching – <i>Interior Design Illustrated</i> - Neufert – <i>Architects' Data</i> - Time Saver Standards for Interior Design					
E- Resources:					
- www.archdaily.com - www.dezeen.com - Autodesk Interior Design tutorials - NPTEL – Ergonomics & Interior Design					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	2	3
PO 2	3	3	3	3	3
PO 3	2	3	3	2	3
PO 4	2	2	3	3	3
PO 5	1	2	2	2	2
PO 6	2	2	2	3	3
PO 7	1	1	1	1	2
PO 8	2	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 5BID 16		
Name of Course: Introduction to Specifications		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To develop understanding of the role and importance of specifications in interior projects. - To train students to read and write specifications for basic interior works. - To familiarize students with standard specification systems (CPWD and similar). - To develop skills for material description and execution detailing through written documents.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Explain the need, scope, and types of specifications in interior design projects. CO2: Interpret standard specifications used in construction and interior works. CO3: Write clear and concise specifications for basic interior components. CO4: Prepare material description sheets based on market survey and sample study.		
Course Content:		
UNIT-I	Introduction to Specifications - Definition, purpose, and importance of specifications. - Relationship between drawings, specifications, and execution. - Types of specifications: general and detailed. - Scope of specifications in interior projects.	(06 Hours)
UNIT-II	Principles of Writing Specifications - Standard format and sequence of writing specifications. - Technical terminology and description of materials. - Avoiding ambiguity and conflicting statements. - Method of measurement (basic introduction).	(06 Hours)
UNIT-III	Standard Specifications & Interior Works - Study of standard specifications (CPWD / BIS – overview). - Writing specifications for Plastering, Painting & polishing, False ceiling, Flooring & Wall panelling - Quality control and workmanship clauses.	(10Hours)
UNIT-IV	Market Survey & Sample Documentation - Market survey for interior materials and finishes. - Preparation of sample plates / material description sheets. - Integration of specifications with interior design drawings. - Case study of specification for a small interior project.	(08 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End of course assessment of 60% marks consisting of written exam.	

Text Books:				
- S.C. Rangwala – <i>Specifications, Estimating & Costing</i> - B.N. Dutta – <i>Estimating & Costing in Civil Engineering</i>				
Reference Books:				
- CPWD – <i>Specifications for Civil & Interior Works</i> - P.C. Varghese – <i>Building Construction</i> M. Chakraborti – <i>Quantity Surveying & Costing</i>				
E- Resources:				
- CPWD official website – Standard specifications - BIS (Bureau of Indian Standards) - NPTEL – Construction Management & Documentation - Manufacturer technical data sheets				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	3	2
PO 2	2	2	3	2
PO 3	2	2	2	2
PO 4	1	1	2	2
PO 5	1	1	2	2
PO 6	2	2	3	2
PO 7	1	1	1	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID E1		
Name of Course: Photo Documentation		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 1 Hour/ Week	Total Marks Allocated: 100	Theory: 01
Studio /Practical: 2 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 01
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To develop visual documentation skills for interior spaces and elements. - To understand photography as a tool for recording traditional and contemporary interiors. - To train students in thematic photo documentation and visual storytelling. - To document materials, furniture, details, and construction processes through photography. - To prepare professionally formatted documentation portfolios.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Apply basic principles of architectural and interior photography. CO2: Document traditional and contemporary interior spaces through thematic photo studies. CO3: Record interior elements, materials, furniture, and construction details visually. CO4: Compile and present a structured photo documentation portfolio with captions and analytical notes.		
Course Content:		
UNIT-I	Fundamentals of Interior Photography - Role of photography in interior design documentation. - Basic camera handling (DSLR / mobile photography). - Principles of photo composition. - Photographing interior spaces and details.	(08 Hours)
UNIT-II	Documentation of Traditional Interiors (Theme Based) - Selection of traditional interior theme (e.g., haveli, temple interiors, vernacular house). - Photo documentation of Spatial organization, Furniture, Decorative elements, Openings, columns, ceilings & floors. - Recording cultural and climatic responses through visuals. - Caption writing and visual analysis.	(08 Hours)
UNIT-III	Documentation of Contemporary Interiors & Interior Elements - Photo documentation of (any one): - Residential / commercial interiors - Modular furniture - False ceiling & lighting - Wall finishes and partitions - Detail photography of materials, textures, and junctions. - Study of colour schemes and ambience through images.	(14 Hours)
UNIT-IV	Construction & Execution Documentation + Portfolio - Photo documentation of interior execution stages: Flooring, Partition framing, Ceiling framework & Services integration - Sequencing of construction process through images. - Editing and post-processing of photographs. - Preparation of final thematic photo documentation portfolio (digital + printed).	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) - Field photography exercises - Thematic documentation progress - Class reviews - Image selection & caption writing			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions by jury. Jury evaluation based on: - Final photo documentation portfolio - Visual quality and composition - Analytical content - Viva-voce			
Text Books:				
Reference Books:				
- Michael Freeman – <i>Architectural Photography</i> - Julius Shulman – <i>Modern Architecture Photography</i>				
E- Resources:				
- ArchDaily – Interior photography section - Dezeen – Interior visual documentation - YouTube – Architectural photography tutorials - Adobe Lightroom / Photoshop tutorials				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	1	2	2	2
PO 2	2	2	2	2
PO 3	3	3	3	3
PO 4	2	2	2	3
PO 5	1	1	1	1
PO 6	2	2	2	3
PO 7	2	3	2	2
PO 8	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID E2		
Name of Course: Introduction to Modular Ceilings		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 0 Hour/ Week	Total Marks Allocated: 100	Theory: 0
Studio /Practical: 04 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 02
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To understand different ceiling systems used in interior spaces. - To identify types of modular ceilings, their components and accessories. - To develop the ability to read RCP (Reflected Ceiling Plans) and relate them to site conditions. - To prepare quantity take-offs and ordering documents for modular ceiling systems.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Classify various modular ceiling systems and their applications in interiors. CO2: Identify ceiling components, grid systems, panels, and accessories. CO3: Interpret RCP drawings and coordinate ceiling layouts with services. CO4: Calculate material quantities, wastage, and prepare basic order sheets.		
Course Content:		
UNIT-I	Ceiling Basics & Interior Applications - Role of ceilings in spatial design and building services integration. - Types of ceiling systems: exposed, suspended, and modular ceilings. - Functional requirements: acoustics, thermal comfort, fire resistance, maintenance. - Introduction to ceiling terminology and levels.	(15 Hours)
UNIT-II	Types of Modular Ceilings & Product Range - Grid ceiling systems (T-grid). - Gypsum board ceiling systems. - Metal ceilings. - Mineral fibre and acoustic ceilings. - PVC and wooden modular ceilings. - Ceiling tiles – sizes, finishes, and performance criteria. - Accessories: suspension system, hangers, trims, edge profiles.	(15 Hours)
UNIT-III	RCP & Services Coordination - Reading Reflected Ceiling Plans. - Ceiling layout setting out on site. - Coordination with: Lighting, HVAC diffusers, Fire detectors & sprinklers, Access panels - Preparation of coordinated ceiling drawings.	(15 Hours)
UNIT-IV	Quantity Take-off & Documentation - Material estimation for modular ceilings. - Calculation of wastage and cutting losses. - Preparation of order quantity sheets. - Preparation of ceiling layout sheets for execution. - Case study / market survey of modular ceiling systems.	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions by the Jury.			
Text Books:				
- Corky Binggeli – <i>Building Systems for Interior Designers</i> - Francis D.K. Ching – <i>Interior Design Illustrated</i> - S.C. Rangwala – <i>Building Construction</i>				
Reference Books:				
- Edward Allen & Joseph Iano – <i>Fundamentals of Building Construction</i> - W.B. McKay – <i>Building Construction (Vol. 1–4)</i> - Time Saver Standards for Interior Design				
E- Resources:				
- Manufacturer websites (Armstrong / Gyproc / USG Boral) - YouTube – Modular ceiling installation tutorials - www.archdaily.com – Interior ceiling case studies				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	3	3	3
PO 2	2	3	3	3
PO 3	1	2	2	3
PO 4	1	2	3	3
PO 5	1	2	2	2
PO 6	2	2	3	3
PO 7	1	1	1	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID E3		
Name of Course: Introduction to Tile Flooring		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
- To understand various flooring materials used in interior spaces. - To study types of tile flooring and their applications. - To develop skills for preparing flooring layouts and patterns. - To understand slope requirements for wet areas. - To calculate material quantities and prepare order documents.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Identify different types of tile flooring and their performance characteristics. CO2: Select appropriate flooring for various interior spaces. CO3: Prepare flooring layout drawings with patterns and levels. CO4: Calculate wastage, slope, and material quantities for execution.		
Course Content:		
UNIT-I	Types of Flooring Materials - Overview of flooring systems in interiors. - Types of tiles: Vitrified tiles, Ceramic tiles, Porcelain tiles, Wooden finish tiles, Anti-skid tiles - Tile sizes, finishes, and performance properties.	(15 Hours)
UNIT-II	Application of Tile Flooring - Selection criteria for different spaces: Living areas, Bedrooms, Commercial spaces, Toilets & kitchens - Surface preparation and base layers. - Tile joints and grouting materials.	(15 Hours)
UNIT-III	Flooring Layouts & Setting Out - Preparation of flooring layout drawings. - Tile patterns and combinations. - Center line method and setting out on site. - Leveling and slope for wet areas. - Checking line, level, and alignment.	(15 Hours)
UNIT-IV	Quantity Take-off & Order Documentation - Calculation of tile quantities. - Wastage and cutting allowances. - Preparation of tile order sheets. - Market survey and product catalogue study. - Case study of flooring execution.	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions by the Jury.			
Text Books:				
- S.K. Duggal – <i>Building Materials</i> - B.C. Punmia – <i>Building Construction</i> - Francis D.K. Ching – <i>Building Construction Illustrated</i>				
Reference Books:				
- W.B. McKay – <i>Building Construction</i> - Edward Allen & Joseph Iano – <i>Fundamentals of Building Construction</i> - Time Saver Standards for Interior Design				
E- Resources:				
- Manufacturer websites (Kajaria / Somany / Johnson) - YouTube – Tile laying & leveling techniques - www.archdaily.com – Flooring case studies				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	3	3	3
PO 2	2	3	3	3
PO 3	1	2	2	3
PO 4	1	2	3	3
PO 5	1	2	2	2
PO 6	2	2	3	3
PO 7	1	1	1	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID 17		
Name of Course: Onsite Learning Sessions-II		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 0 Hour/ Week	Total Marks Allocated: 100	Theory: 0
Studio /Practical: 04 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 02
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To provide practical exposure to the use of art, artefacts, paintings, and graphics in interior spaces. - To understand the application of traditional and contemporary art in interior design. - To develop visual documentation and photography skills through field visits. - To familiarize students with regional arts, crafts, and interior products of India.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Identify traditional and contemporary art forms used in interior spaces. CO2: Analyse the role of artefacts, graphics, and artworks in enhancing interior ambience. CO3: Document interior products, crafts, and artworks through sketches and photographs. CO4: Prepare structured field reports and visual documentation portfolios.		
Course Content:		
UNIT-I	Study of Art in Interior Spaces - Role of art, paintings, murals, and graphics in interiors. - Elements of visual composition in interior styling. - Case studies of traditional and contemporary interior projects. Field Visit: Art galleries / heritage interiors / hospitality interiors.	(15 Hours)
UNIT-II	Traditional Arts & Crafts of India - Study of regional crafts used in interiors: Wall art, Textiles, Wood carving, Stone craft, Metal artefacts - Application in vernacular and historic buildings. Field Visit: Craft clusters / museums / local artisan workshops.	(15 Hours)
UNIT-III	Interior Products & Styling Elements - Decorative accessories in interior design. - Selection and placement of artefacts in different spaces. - Study of materials, finishes, colours, and textures. Field Visit: Interior product showrooms / lifestyle stores.	(15 Hours)
UNIT-IV	Documentation & Presentation - Photography and visual recording techniques. - Preparation of: - Artefact study sheets - Thematic photo documentation - Analytical field reports - Compilation of final portfolio.	(15 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End of course assessment of 60% marks based on Evaluation of submissions by the Jury.	

Text Books:				
- Francis D.K. Ching – <i>Interior Design Illustrated</i> - John Pile – <i>A History of Interior Design</i> - Susie Hodge – <i>The Short Story of Art</i>				
Reference Books:				
- Ritu Kumar – <i>Costumes & Textiles of Royal India</i> - Shanti Swarup Sinha – <i>Indian Art and Culture</i> - Laila Tyabji – <i>Craft Traditions of India</i>				
E- Resources:				
- www.indiancrafts.gov.in - www.archdaily.com - Virtual museum archives (NGMA / Crafts Museum)				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	2	2	2
PO 3	3	3	3	3
PO 4	2	2	3	3
PO 5	1	1	1	1
PO 6	2	2	2	3
PO 7	3	3	2	2
PO 8	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID 18

Name of Course: Practical Training-I

TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 0 Hour/ Week	Total Marks Allocated: 100	Theory: 0
Studio /Practical: 06 Hours /Week (for report preparation & viva guidance)	End Semester Viva–Voce (Jury): 60 Internal Assessment: 40	Practical/ Studio Work: 03
		Total Credits: 03
Training Duration:		
Minimum 4–6 Weeks (Summer Vacation after Semester–II)		
Course Objectives:		
- To expose students to real professional working environments in the field of interior design. - To understand office procedures, site practices, and coordination with various agencies. - To develop practical skills through hands-on involvement in ongoing projects / product manufacturing units. - To train students in systematic documentation and professional presentation of their training experience.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Demonstrate understanding of professional practice in interior design and allied fields. CO2: Identify materials, construction techniques, working drawings, and execution processes used in real projects. CO3: Prepare a detailed training report supported with drawings, photographs, and work documentation. CO4: Present the professional experience effectively through portfolio and viva-voce.		
Course Content:		
After the completion of Semester–II, each student shall undergo Practical / Field Training for a minimum duration of 4–6 weeks during the summer vacation. The training may be in the form of an internship or Skill-Based Field Training under product manufacturers, contractors, interior designers, architects' offices, or any other relevant organization as approved by the Programme Coordinator or Head of Department (HoD). During the training the student shall be exposed to: - Office working procedures and drawing documentation - Preparation / understanding of working drawings and details - Site visits and execution processes - Material selection and vendor coordination - Basic estimation and quantity take-off - Product manufacturing / installation techniques - Professional interaction and project coordination The student shall maintain a daily logbook certified by the industry supervisor and prepare a detailed training report in Semester–III consisting of: - Profile of the organization - Nature of projects / products handled - Office workflow and site activities - Drawings / details (where permitted) - Materials and construction techniques studied - Learning outcomes and self-assessment In Semester–III, the student shall prepare a detailed report of the training undertaken and appear for a viva-voce examination based on the work completed, to be conducted by internal/external jury members.		

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) - Logbook & industry supervisor feedback – 20 marks - Report work progress / presentation – 20 marks			
PART-B	End of course assessment of 60% marks consisting viva-voce examination based on the work completed, to be conducted by internal/external jury members.			
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	3	2	2
PO 3	3	3	3	3
PO 4	2	2	3	3
PO 5	1	2	2	2
PO 6	3	3	3	3
PO 7	2	2	2	2
PO 8	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID 19		
Name of Course: Computer Applications – III		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 02
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 03
Course Objectives:		
- To develop advanced skills in digital 3D modelling for interior spaces. - To understand rendering techniques using materials, lighting, and camera views. - To enable image editing and graphic software for presentation drawings. - To understand file handling, interoperability, and plotting techniques.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Create detailed 3D models of interior spaces using advanced modelling tools. CO2: Apply materials, textures, lighting, and camera settings for realistic rendering. CO3: Edit and compose presentation sheets using graphic software. CO4: Manage digital workflows including file exchange and plotting.		
Course Content:		
UNIT-I	Digital Image Editing for Interior Presentation - Role of graphic software in design communication - Image editing using Photoshop / CorelDraw - Post-processing of plans, sections, and rendered views - Preparation of presentation boards	(15 Hours)
UNIT-II	Advanced 3D Modelling - Introduction to 3D modelling interface (3Ds Max / equivalent) - Surface modelling: Extrusion, Lathe, Sweep, Shell modifier - Solid modelling and composite forms - Creation of interior components and furniture	(15 Hours)
UNIT-III	Materials, Mapping & Lighting - Assigning materials and textures - Mapping coordinates and UV mapping - Creating transparent and reflective materials - Interior lighting techniques - Shadows and depth of field - Camera views and scene composition	(15 Hours)
UNIT-IV	Rendering & Output - Rendering techniques and settings - Walkthrough / perspective views - Import–export between CAD and 3D software - File formats and their applications - Plotting and printing of presentation sheets	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of Practical exam.			
Text Books:				
- Sham Tickoo – <i>Autodesk 3ds Max for Interior Design</i> - Prof. Sham Tickoo – <i>AutoCAD for Interior Design</i> - Rajesh K. Maurya – <i>Mastering Adobe Photoshop</i>				
Reference Books:				
- Daniel John Stine – <i>Interior Design using AutoCAD, Revit & 3ds Max</i> - Autodesk – <i>3ds Max Modelling & Rendering Guide</i> - Scott Onstott – <i>AutoCAD and Photoshop for Interior Designers</i>				
E- Resources:				
- Autodesk Education tutorials - Chaos V-Ray / Corona Renderer learning resources - LinkedIn Learning – Interior visualization - YouTube – 3Ds Max for interior workflows				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	2	2
PO 2	3	3	3	2
PO 3	3	3	3	2
PO 4	2	3	3	3
PO 5	2	2	2	2
PO 6	3	3	3	3
PO 7	1	1	1	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID 20		
Name of Course: Traditional & Contemporary Interiors, Arts & its Appreciation		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 03 Hour/ Week	Total Marks Allocated: 100	Theory: 03
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 03
Course Objectives:		
- To understand the application of traditional spatial principles in contemporary interior design. - To analyse climate-responsive and region-specific interior strategies in India. - To study the role of arts, crafts, and artefacts in interior ambience and styling. - To develop appreciation for adaptive reuse and culturally rooted modern interiors.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Interpret traditional Indian spatial concepts in contemporary interior design. CO2: Analyse climate and regional factors in the making of interior environments. CO3: Apply art, craft, and artefacts in interior styling and thematic spaces. CO4: Evaluate heritage interiors and adaptive reuse projects in India.		
Course Content:		
UNIT-I	Climate Responsive Interior Strategies in India - Interior space as a response to climate - Spatial strategies in hot-dry, warm-humid, composite and cold climates - Traditional passive design features and their modern applications - Role of materials, openings, colours and surfaces in thermal comfort	(07 Hours)
UNIT-II	Transformation of Indian Residential Interiors - Change in lifestyle and its impact on interior planning - Traditional house → modern apartment - Evolution of furniture layout and multifunctional spaces - Contemporary Indian interior design approaches	(08 Hours)
UNIT-III	Interior Styling using Arts, Crafts & Artefacts - Role of visual arts in interior ambience - Integration of Textiles, Murals, Handicrafts & Sculptural elements - Regional crafts in modern interiors - Thematic and hospitality interiors based on Indian identity	(15 Hours)
UNIT-IV	Heritage Interiors & Adaptive Reuse - Concept of heritage interiors - Adaptive reuse of historic buildings - Conservation vs. transformation - Case studies of Indian projects - Contemporary designers using traditional vocabulary	(15 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End of course assessment of 60% marks consisting of written exam.	

Text Books:				
- Francis D.K. Ching – <i>Interior Design Illustrated</i> - Ilay Cooper – <i>The Traditional Architecture of India</i> - John Pile – <i>A History of Interior Design</i>				
Reference Books:				
- Paul Oliver – <i>Encyclopedia of Vernacular Architecture of the World</i> - Laila Tyabji – <i>Craft Traditions of India</i> - Rahul Mehrotra – <i>Architecture in India since 1990</i>				
E- Resources:				
- INTACH heritage documentation - www.archdaily.com - www.dezeen.com - India Design ID case studies				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	2	2	2
PO 2	2	3	2	2
PO 3	2	3	3	2
PO 4	2	2	3	2
PO 5	1	1	1	1
PO 6	2	2	2	2
PO 7	3	3	2	2
PO 8	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID 21		
Name of Course: Interior Design Studio - III		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 06 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 03
	Internal Assessment: 40	Total Credits: 05
Course Objectives:		
- To develop the ability to design small to medium-scale residential and commercial interior spaces. - To prepare coordinated interior layouts integrating furniture, materials, and building services. - To introduce students to working drawings and execution details. - To enable selection of appropriate materials, colour schemes, and finishes for interior environments. - To develop skills for preparing presentation drawings and technical documentation.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Prepare functional interior layouts for residential and commercial spaces. CO2: Develop coordinated drawings incorporating flooring, RCP, electrical, and plumbing layouts. CO3: Produce basic working drawings for interior execution. CO4: Select appropriate materials, finishes, and colour schemes for designed spaces. CO5: Present complete design projects with 2D drawings, 3D views and detail sheets.		
Course Content:		
UNIT-I	Space Planning & Design Development - Design of small to medium scale interior spaces such as: ➤ Residence (studio apartment / small house) ➤ Retail shop / office / clinic / café (any one) - User analysis and activity mapping - Zoning and circulation - Furniture layout and space optimisation Studio Output: Concept sheets, zoning, layout alternatives	(30 Hours)
UNIT-II	Integration of Materials & Interior Elements - Selection of materials and finishes - Colour schemes and interior ambience - Design of partitions, storage, and display systems - Flooring layout and wall treatment design Studio Output: Material boards, interior elevations	(30 Hours)
UNIT-III	Services & Working Drawings - Reflected ceiling plan with lighting layout - Electrical layout - Plumbing layout for wet areas (kitchen/toilet) - Basic working drawings for: ➤ Flooring ➤ Ceiling ➤ Partition details Studio Output: Coordinated service drawings	(30 Hours)

UNIT-IV	Final Design Resolution & Presentation - Preparation of: - Plans - Sections - Interior elevations - Detail drawings 3D views / digital visualisation - Compilation of final portfolio Final Studio Project: Complete interior design project with technical drawings	(30 Hours)			
Assessment:					
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)				
PART-B	End of course assessment of 60% marks consisting of evaluation by the Jury. .				
Text Books:					
- Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> - Francis D.K. Ching – <i>Interior Design Illustrated</i> - Neufert – <i>Architects’ Data</i>					
Reference Books:					
- Time Saver Standards for Interior Design - Corky Binggeli – <i>Building Systems for Interior Designers</i> - Joseph De Chiara – <i>Interior Design Space Planning</i>					
E- Resources:					
- www.archdaily.com - www.dezeen.com - Autodesk interior workflow tutorials - Working drawing case studies					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	2	3
PO 2	3	3	3	3	3
PO 3	2	3	3	2	3
PO 4	2	2	3	3	3
PO 5	1	2	2	2	2
PO 6	2	3	3	3	3
PO 7	1	1	1	1	2
PO 8	2	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 5BID 22		
Name of Course: Basics of Estimation, Costing & Quantity Surveying		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 04 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 04
Studio /Practical: 0 Hours /Week		Practical/ Studio Work: 0
		Total Credits: 04
Course Objectives:		
- To introduce students to the principles and methods of estimation and quantity surveying. - To familiarize students with standard schedules of rates (DSR / BSR). - To develop the ability to take out quantities from interior drawings. - To train students in preparation of basic cost estimates using computer software.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Explain types and methods of estimation used in interior and building works. CO2: Take out quantities for basic interior items from drawings. CO3: Apply schedule of rates for preparation of cost estimates. CO4: Prepare approximate and detailed estimates using spreadsheet software.		
Course Content:		
UNIT-I	Introduction to Estimation & Types of Estimates - Purpose and scope of estimation in interior projects - Types of estimates: ➤ Approximate estimate ➤ Detailed estimate - Methods of approximate estimation: ➤ Plinth area method ➤ Carpet / floor area method ➤ Cubic content method ➤ Approximate quantity method	(15 Hours)
UNIT-II	Detailed Estimation & Quantity Take-off - Procedure for detailed estimate - Taking out quantities from drawings for: ➤ Flooring ➤ Plastering / painting ➤ False ceiling ➤ Partition / panelling - Preparation of BOQ (Bill of Quantities)	(15 Hours)
UNIT-III	Schedule of Rates & Rate Analysis - Introduction to DSR / BSR - Use of schedule of rates in estimation - Principles of rate analysis - Basic components of item rate: ➤ Materials ➤ Labour ➤ T&P	(15 Hours)

	➤ Overheads & profit			
UNIT-IV	Costing using Computer Applications • Preparation of estimate in spreadsheet (Excel) • Abstract of cost • Preparation of quantity and cost summary • Introduction to tender documents (basic)	(15 Hours)		
Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of written exam.			
Text Books:				
• B.N. Dutta – <i>Estimating & Costing in Civil Engineering</i> • S.C. Rangwala – <i>Estimating, Costing & Valuation</i> • M. Chakraborti – <i>Quantity Surveying</i>				
Reference Books:				
• D.S. Biradar – <i>Estimating & Costing</i> • CPWD – <i>Schedule of Rates</i> • PWD – <i>BSR (Basic Schedule of Rates)</i>				
E- Resources:				
• CPWD DSR online documents • State PWD BSR documents • Excel tutorials for quantity surveying • NPTEL – Construction planning & management				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	2	2
PO 2	2	3	3	3
PO 3	2	3	3	2
PO 4	1	2	2	3
PO 5	1	2	2	2
PO 6	3	3	3	3
PO 7	1	1	1	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5BID 23		
Name of Course: Activity Sequencing and Check List for Interior Works		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 02
Studio /Practical: 0 Hours /Week		Practical/ Studio Work: 0
		Total Credits: 02
Course Objectives:		
- To understand quality system standards for interior construction activities. - To develop knowledge of activity sequencing for execution of interior works. - To familiarize students with QA/QC procedures, inspection methods and checklists. - To train students in identification and rectification of defects in interior projects.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Explain quality management principles in interior construction. CO2: Prepare activity sequence for various interior works. CO3: Develop checklists for quality control and site inspection. CO4: Identify common defects and suggest rectification methods.		
Course Content:		
UNIT-I	Introduction to Quality Systems in Interior Works - Concept of quality in design, construction and execution - Quality system standards for construction activities - Quality in materials, workmanship and finishing - Cost of quality and rework	(07 Hours)
	Activity Sequencing in Interior Execution - Work breakdown structure for interior projects - Sequence of major interior works: - Masonry / partition - Flooring - False ceiling - Joinery / modular furniture - Painting & polishing - Coordination with building services - Time scheduling (basic bar chart concept)	
UNIT-III	QA/QC Procedures & Checklists - Inspection and testing methods - Quality assurance vs quality control - Preparation of checklists for: - Woodwork - Flooring - Ceiling - Finishing works - Electrical & plumbing services - Documentation and reporting system	(08 Hours)

UNIT-IV	Defects, Maintenance & Rectification • Identification of common defects in interior works • Causes of defects and preventive measures • Rectification techniques • Quality in maintenance works • Contractual implications of quality				(08 Hours)
	Assessment:				
	PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
	PART-B	End of course assessment of 60% marks consisting of written exam.			
	Text Books: • K.K. Chitkara – <i>Construction Project Management</i> • S.C. Rangwala – <i>Building Construction</i> • B.C. Punmia – <i>Project Planning and Control</i>				
Reference Books: • P.K. Joy – <i>Quality Control in Construction</i> • Jha & Sinha – <i>Construction Management & Planning</i> • CPWD Quality Assurance Manual					
E- Resources: • CPWD / PWD Quality Control guidelines • ISO 9001 – Quality management system (overview) • NPTEL – Construction planning & quality control • Site execution workflow videos					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	
PO 1	2	3	2	2	
PO 2	2	3	3	2	
PO 3	2	3	3	2	
PO 4	1	2	2	2	
PO 5	1	2	2	2	
PO 6	3	3	3	3	
PO 7	1	1	1	1	
PO 8	2	2	2	2	
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 5BID 24		
Name of Course: Presentation Skills		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 02
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 03
Course Objectives:		
- To develop effective verbal, visual and digital presentation skills for interior design projects. - To train students in preparing professional presentations for clients, juries and consultants. - To understand the use of appropriate visual aids and communication techniques. - To build confidence in public speaking, group discussions and professional meetings.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Select appropriate visual aids for different presentation contexts. CO2: Prepare professional digital and physical presentation sheets. CO3: Deliver effective oral presentations with confidence and clarity. CO4: Demonstrate professional behaviour in meetings, discussions and client interactions.		
Course Content:		
UNIT-I	Visual Communication for Interior Design - Types of visual aids: drawings, presentation sheets, models, display panels, photographs, digital media - Selection of visual aids based on purpose and audience - Composition and graphic layout for presentation boards - Colour schemes, fonts and visual hierarchy	(Hours)
UNIT-II	Digital Presentation Techniques - Preparation of PowerPoint / digital slide presentations - Integration of drawings, renders, diagrams and animations - Portfolio presentation formats (PDF / digital / physical) - Use of templates and presentation themes	(Hours)
UNIT-III	Professional Communication & Public Speaking - Presentation to clients and design juries - Planning presentation based on audience analysis - Verbal and non-verbal communication: posture, gestures, facial expressions, eye contact, voice modulation - Handling questions and discussions - Overcoming stage fear and building confidence	(Hours)
UNIT-IV	Meetings & Professional Interaction - Conducting and participating in professional meetings - Listening and note-taking skills - Informal interaction and presentation follow-up - Dress code and professional etiquette - Mock client presentation and group discussion	(Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of Practical exam.			
Text Books:				
- Paul McGee – <i>Presentation Skills for Students</i> - Garr Reynolds – <i>Presentation Zen</i> - Francis D.K. Ching – <i>Design Drawing</i>				
Reference Books:				
- Tom Greever – <i>Articulating Design Decisions</i> - Dona J. Young – <i>Interior Design Presentation</i> - Alexei Kapterev – <i>Presentation Secrets</i>				
E- Resources:				
- TED Talks (presentation techniques) - Canva / PowerPoint design tutorials - Behance – Interior design portfolios - Issuu – Student presentation sheets				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	2	2	2
PO 3	2	2	3	2
PO 4	1	1	2	2
PO 5	3	3	3	3
PO 6	3	3	3	3
PO 7	1	1	1	1
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Semester-V

Course Code: 5.5BID 25		
Name of Course: Supervisory Skills		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To understand the roles and responsibilities of a supervisor on an interior project site. - To develop the ability to coordinate with workers, contractors and consultants. - To train students in interpreting drawings and assigning work on site. - To prepare students for documentation of daily progress and reporting systems. - To build leadership and interpersonal skills for small project execution.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Describe the duties and responsibilities of a site supervisor in interior works. CO2: Interpret interior drawings and communicate work instructions to site teams. CO3: Prepare daily and periodic progress reports in prescribed formats. CO4: Apply leadership and communication skills for effective team coordination.		
Course Content:		
UNIT-I	Role of Supervisor in Interior Projects - Scope of supervision in interior works - Roles and responsibilities at site - Coordination with client, contractor, vendors and consultants - Work scheduling and resource planning	(Hours)
UNIT-II	Leadership & Interpersonal Skills - Basics of leadership for small teams - Communication with workers and skilled labour - Motivation and conflict management - Professional ethics and work culture	(Hours)
UNIT-III	Working Drawings & Site Execution - Reading and interpreting interior drawings - Explaining layouts and details to workmen - Work allocation and monitoring - Use of checklists for supervision - Quality and safety awareness at site	(Hours)
UNIT-IV	Documentation & Reporting System - Maintaining site records and daily progress reports - Measurement books and work logs - Preparation of periodic progress reports - Reporting formats for client and office - Use of photographs for work documentation	(Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of written exam.			
Text Books:				
• K.K. Chitkara – <i>Construction Project Management</i> • B.C. Punmia – <i>Project Planning & Control</i> • S.C. Rangwala – <i>Building Construction</i>				
Reference Books:				
• Ganguly – <i>Construction Management</i> • CPWD Works Manual (relevant sections) • Joseph De Chiara – <i>Time Saver Standards for Interior Design</i>				
E- Resources:				
• Site management workflow videos • Construction supervision manuals • NPTEL – Construction planning & management • Interior project execution case studies				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	3	2	2
PO 3	2	2	3	2
PO 4	1	1	2	2
PO 5	2	2	2	2
PO 6	3	3	3	3
PO 7	1	1	1	1
PO 8	2	2	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 26		
Name of Course: Interior Design Studio -IV		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 06 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 03
	Internal Assessment: 40	Total Credits: 05
Course Objectives:		
- To develop the ability to design large scale institutional and commercial interior projects. - To integrate functional planning, building services, building codes and construction detailing in design. - To introduce environmental and sustainable design strategies in interior spaces. - To design custom furniture, cabinetry and interior elements. - To develop professional level presentation and execution drawings.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Prepare comprehensive interior design proposals for institutional and commercial projects. CO2: Apply building codes, services integration and wayfinding systems in interior design. CO3: Develop detailed construction drawings and custom furniture designs. CO4: Select sustainable materials and environmentally responsible design solutions. CO5: Present complete studio projects with technical drawings, 3D views and design documentation.		
Course Content:		
UNIT-I	Design Programming & Space Planning - Understanding project brief and user analysis - Area programming and relationship diagrams - Zoning and circulation for large scale interiors - Design development for institutional / commercial spaces Project Typologies (any one): Hospitality / Retail / Healthcare / Office / Urban interior / Transport terminal / Exhibition space Studio Output: Concept, bubble diagrams, layout alternatives	(30 Hours)
UNIT-II	Interior Systems & Wayfinding - Integration of building services in large interiors - Signage and graphic identification systems - Universal accessibility and life safety considerations - Application of relevant building codes and standards Studio Output: Services layout, wayfinding strategy	(30 Hours)
UNIT-III	Interior Construction & Custom Elements - Interior construction detailing - Design of custom furniture and cabinetry - Selection of materials and finishes - Decorative accessories and interior styling - Sustainable / green materials and strategies Studio Output: Detail drawings, furniture details, material boards	(30 Hours)

UNIT-IV	Visualization & Project Resolution • Rendering (manual / digital) • Preparation of working drawings • Interior perspectives / 3D views • Portfolio drawings and project compilation Final Studio Project: Comprehensive design project with complete documentation	(30 Hours)			
	Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)				
PART-B	End of course assessment of 60% marks consisting of evaluation by the Jury.				
Text Books:					
• Joseph De Chiara – <i>Time Saver Standards for Interior Design</i> • Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> • Francis D.K. Ching – <i>Interior Design Illustrated</i>					
Reference Books:					
• Ernst Neufert – <i>Architects' Data</i> • Corky Binggeli – <i>Building Systems for Interior Designers</i> • Rosemary Kilmer – <i>Designing Interiors</i>					
E- Resources:					
• www.archdaily.com • www.dezeen.com • Case studies of institutional & commercial interiors • IGBC / GRIHA green interior guidelines					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	2	3
PO 2	3	3	3	3	3
PO 3	3	3	3	2	3
PO 4	2	2	3	3	3
PO 5	2	2	2	3	2
PO 6	2	3	3	3	3
PO 7	2	2	2	3	2
PO 8	2	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 5.5BID 27		
Name of Course: Preparing Bill of Quantities		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 04 Hour/ Week	Total Marks Allocated: 100	Theory: 04
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 04
Course Objectives:		
- To enable students to interpret interior working drawings for quantity take-off. - To develop understanding of units of measurement and methods of quantity calculation. - To train students in preparation of Bills of Quantities for interior works. - To introduce rate analysis and its application in BOQ preparation. - To develop skills for preparation of BOQ using spreadsheet software.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Classify and itemize interior works for preparation of BOQ. CO2: Take out quantities from working drawings using standard methods of measurement. CO3: Prepare rate analysis for selected interior items. CO4: Compile a draft BOQ and schedule of quantities using MS Excel.		
Course Content:		
UNIT-I	Introduction to Bill of Quantities - Definition, purpose and importance of BOQ - Types and functions of BOQ - Item description and item classification for interior works - Standard units of measurement	(15 Hours)
UNIT-II	Quantity Take-off from Drawings - Interpretation of interior working drawings - Types of measurements and modes of measurement - Methods of taking out quantities for: - Flooring - False ceiling - Partition & panelling - Painting & polishing - Modular furniture - Preparation of quantity sheets	(15 Hours)
UNIT-III	Rate Analysis & Item Preparation - Analysis of rates for interior items - Material, labour and overhead components - Preparation of item-wise cost - Abstract of cost	(15 Hours)
UNIT-IV	Preparation of BOQ & Contract Basics - Draft BOQ for interior projects - Preparation of schedule of quantities - BOQ using MS Excel - Basics of contracts and tender documentation	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of written exam.			
Text Books:				
- B.N. Dutta – <i>Estimating & Costing in Civil Engineering</i> - S.C. Rangwala – <i>Estimating, Costing & Valuation</i> M. Chakraborti – <i>Quantity Surveying</i>				
Reference Books:				
- CPWD – <i>DSR & Measurement Book</i> - PWD – <i>Standard Mode of Measurement</i> - K.K. Chitkara – <i>Construction Project Management</i>				
E- Resources:				
- CPWD DSR online - Standard Method of Measurement (SMM) - Excel templates for BOQ - NPTEL – Quantity Surveying				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	2	2
PO 2	2	3	3	3
PO 3	2	3	3	2
PO 4	1	2	2	3
PO 5	2	3	3	3
PO 6	2	3	3	3
PO 7	1	1	1	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 28		
Name of Course: Managing Small Business Enterprise		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To understand the structure and functioning of a professional interior design practice. - To develop managerial skills for running a small design office or enterprise. - To introduce project planning, staffing and coordination systems. - To impart basic financial and taxation knowledge related to interior works. - To familiarize students with professional communication and business documentation.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Explain the organizational setup of a small interior design firm. CO2: Apply office management systems for documentation, communication and coordination. CO3: Demonstrate basic financial planning, accounting and taxation awareness for interior projects. CO4: Plan resources, staffing and workflow for execution of small design projects.		
Course Content:		
UNIT-I	Professional Practice & Office Setup - Characteristics of a professional interior design practice - Types of interior design firms - Structure of a small office - Infrastructure and resource requirements	(Hours)
UNIT-II	Office Administration & Coordination - Office management systems and procedures - Filing, indexing and documentation - IT applications in office management - Professional correspondence with Clients, Contractors, Vendors, Consultants & Approval authorities	(Hours)
UNIT-III	Project Planning & Human Resource Management - Organization of work and workflow - Staffing pattern in small firms - Delegation and decentralization - Coordination with site and office - Time management in design practice	(Hours)
UNIT-IV	Financial Management & Taxation - Basics of accounting for interior projects - Project cash flow - Fee structure and payments - Overview of taxes applicable to interior works (GST – basic concept) - Financial planning for small business enterprise	(Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of written exam.			
Text Books:				
• K.K. Chitkara – <i>Construction Project Management</i> • Ar. A.K. Jain – <i>Professional Practice for Architects & Interior Designers</i> • Francis D.K. Ching – <i>Design Practice & Management</i>				
Reference Books:				
• The Architect’s Handbook of Professional Practice – AIA • CPWD Works Manual (relevant sections) • GST for Works Contracts – basic guide				
E- Resources:				
• COA / IIID professional practice guidelines • Sample interior consultancy agreements • GST portal (basic understanding) • Case studies of small design firms				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	3	2	2
PO 3	2	2	2	3
PO 4	1	2	2	2
PO 5	2	2	2	2
PO 6	3	3	3	3
PO 7	1	1	1	1
PO 8	3	2	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID E1		
Name of Course: Modular Furniture & Kitchen Design		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 03
Course Objectives:		
- To understand the concept and systems of modular furniture and kitchen design. - To develop skills in planning, detailing and module coordination. - To familiarize students with hardware, accessories and material specifications. - To prepare working drawings and quantity take-off for modular systems. - To introduce factory-made furniture and site installation processes.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Plan modular kitchen and furniture layouts based on ergonomics and standards. CO2: Select appropriate materials, finishes, hardware and accessories. CO3: Prepare shop drawings for modular components. CO4: Estimate basic quantities and understand installation procedures.		
Course Content:		
UNIT-I	Introduction to Modular Systems - Concept and advantages of modular furniture - Modular coordination and standard sizes - Factory-made vs site-made furniture - Materials used in modular furniture (plywood, MDF, particle board, laminates, acrylic, membrane finishes)	(07 Hours)
UNIT-II	Modular Kitchen Design - Kitchen work triangle and ergonomics - Standard kitchen layouts: L-shaped, U-shaped, Parallel, Island - Base units, wall units and tall units - Accessories and storage systems	(08 Hours)
UNIT-III	Modular Furniture & Hardware - Wardrobes and storage systems - TV units, study units, office workstations - Modular partitions - Hardware and fittings: Hinges, Channels, Handles, Lift-up systems, Drawer systems	(15 Hours)
UNIT-IV	Working Drawings & Installation - Shop drawings for modular furniture - Module detailing and joinery - Basic quantity take-off for modular units - Cost components and vendor coordination - Transportation and site installation process	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
- Mary Gilliatt – <i>Kitchen Planning & Design</i> - Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> - Time Saver Standards for Interior Design				
Reference Books:				
- NKBA – <i>Kitchen Planning Guidelines</i> - Blum / Hettich / Hafele catalogues - Neufert – <i>Architects’ Data</i>				
E- Resources:				
- Hafele / Hettich / Blum product manuals - Modular kitchen design case studies - YouTube factory manufacturing videos - Pinterest / ArchDaily modular furniture details				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	3	2
PO 3	2	3	3	2
PO 4	1	2	2	2
PO 5	3	3	3	3
PO 6	2	3	2	2
PO 7	1	1	1	1
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID E2		
Name of Course: Lighting Design for Interior Spaces		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
- To understand the role of lighting in interior space making. - To develop skills for designing functional and aesthetic lighting schemes. - To familiarize students with lighting fixtures, lamps and control systems. - To prepare lighting layouts integrated with reflected ceiling plans. - To introduce energy-efficient and sustainable lighting strategies.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Apply lighting principles for different interior functions and moods. CO2: Select appropriate luminaires based on performance and design requirements. CO3: Prepare lighting layouts and coordinate them with ceiling design. CO4: Design energy-efficient lighting schemes for interior spaces.		
Course Content:		
UNIT-I	Fundamentals of Lighting Design - Nature and properties of light - Units of lighting (lumen, lux, candela) - Types of lighting: ➤ Ambient ➤ Task ➤ Accent ➤ Decorative - Lighting quality: glare, contrast, colour temperature, CRI	(07 Hours)
UNIT-II	Light Sources & Luminaires - Types of lamps: LED, fluorescent, halogen etc. - Types of lighting fixtures for interiors - Selection criteria for luminaires - Lighting for different interior spaces: Residential, Retail, Office, Hospitality	(08 Hours)
UNIT-III	Lighting Layout & Integration - Lighting design process - Lux level requirements for various spaces - Preparation of lighting layout - Reflected ceiling plan coordination - Lighting for display and feature elements	(15 Hours)
UNIT-IV	Controls, Sustainability & Visual Effects - Lighting control systems (dimmers, sensors, smart lighting – concept) - Daylighting integration - Energy-efficient lighting design - Mood lighting and special effects - Case studies of interior lighting design	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
- Gary Gordon – <i>Interior Lighting for Designers</i> - Francis D.K. Ching – <i>Building Construction Illustrated</i> (lighting integration) - Egan & Olgyay – <i>Architectural Lighting</i>				
Reference Books:				
- IES Lighting Handbook - Time Saver Standards for Interior Design - Philips / Wipro / Havells lighting catalogues				
E- Resources:				
- IES lighting guidelines - Manufacturer photometric data (concept level) - Lighting case studies – ArchDaily / Dezeen - YouTube lighting simulation tutorials				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	3	2
PO 3	2	3	3	2
PO 4	1	2	2	2
PO 5	3	3	3	3
PO 6	2	2	2	2
PO 7	2	2	2	2
PO 8	2	2	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID E3		
Name of Course: Retail & Visual Merchandising Design		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
- To understand the principles of retail space planning and customer behaviour. - To develop skills in visual merchandising and product display systems. - To design brand-oriented retail interiors and display environments. - To prepare retail layouts integrating lighting, graphics and circulation.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Plan retail spaces based on customer movement and functional zoning. CO2: Design effective product display and visual merchandising systems. CO3: Apply branding, graphics and lighting in retail interiors. CO4: Prepare retail design presentations with layout and display details.		
Course Content:		
UNIT-I	Introduction to Retail Design - Evolution and types of retail spaces - Retail formats: ➤ Department store ➤ Mall retail/ Showroom ➤ Specialty store ➤ Kiosk / pop-up store - Consumer behaviour and buying psychology - Store image and brand identity	(07 Hours)
UNIT-II	Retail Space Planning - Functional zones in retail interiors - Circulation patterns and customer movement - Space allocation and product grouping - Planning of: Entrance, Display areas, Billing counters, Trial rooms, Storage	(08 Hours)
UNIT-III	Visual Merchandising & Display Systems - Principles of visual merchandising - Window display design - Product display techniques - Display fixtures and systems - Role of colour, material and lighting in display - Seasonal and thematic displays	(15 Hours)
UNIT-IV	Retail Ambience & Presentation - Integration of graphics and signage - Brand communication in interior space - Lighting for retail display - Preparation of retail design project - Case studies of successful retail interiors	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
• Martin M. Pegler – <i>Visual Merchandising and Display</i> • Claus Ebster & Marion Garaus – <i>Store Design and Visual Merchandising</i> • Chris Noell – <i>Retail Design</i>				
Reference Books:				
• Philip Kotler – <i>Retail Marketing</i> (consumer behaviour – basics) • Time Saver Standards for Interior Design • Retail design case study publications				
E- Resources:				
• Retail store case studies – ArchDaily / Dezeen • VM guidelines from global brands • YouTube window display execution videos • Pinterest retail display documentation				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	2	2
PO 3	2	3	3	2
PO 4	1	2	2	2
PO 5	3	3	3	3
PO 6	2	2	2	2
PO 7	1	1	1	1
PO 8	2	3	2	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 29		
Name of Course: Onsite Learning Sessions-III		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 0 Hour/ Week	Total Marks Allocated: 100	Theory: 0
Studio /Practical: 04 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 02
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To understand the integration of advanced building services in interior projects. - To develop practical knowledge of electrical, HVAC and utility systems. - To enable students to relate services drawings with on-site execution. - To familiarize students with relevant building service codes and standards. - To enhance decision-making ability at the planning and coordination stage.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Identify various electrical and mechanical services used in interior spaces. CO2: Interpret services layouts and their execution on site. CO3: Analyse coordination between interior elements and building services. CO4: Document site observations through measured sketches, photographs and reports.		
Course Content:		
The course shall be conducted through guided site visits, field documentation and interaction with service consultants.		
Suggested site visits: - Commercial building under construction - HVAC plant room - Electrical substation / panel room - Fire control room - Green building / intelligent building		
UNIT-I	Exposure to Advanced Building Services - Electrical systems and distribution layouts - Lighting and control systems - HVAC systems and air distribution - Fire safety and detection systems - Plumbing and water supply systems - Data, communication and security systems	(15 Hours)
UNIT-II	Integration with Interior Works - Coordination of services with: False ceiling, Partitions, Modular furniture, Flooring systems - Understanding service routes and clearances - Access panels and maintenance considerations	(15 Hours)
UNIT-III	Codes & Standards - Introduction to relevant provisions of: NBC, BIS, IS codes (concept level) - Safety considerations in services planning	(15 Hours)

UNIT-IV	Documentation & Reporting • Site sketches and service layout understanding • Photographic documentation • Interaction with project engineers / consultants • Preparation of service integration report				(15 Hours)
	Assessment:				
	PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
	PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Reference Books:					
• Corky Binggeli – <i>Building Systems for Interior Designers</i> • S.C. Rangwala – <i>Building Construction</i> • NBC (relevant sections – services)					
E- Resources:					
• HVAC system installation videos • Electrical service coordination tutorials • Fire safety system case studies • IGBC / GRIHA service integration examples					
CO-PO Mapping:					
	CO 1	CO 2	CO 3	CO 4	
PO 1	2	2	2	2	
PO 2	2	3	2	2	
PO 3	2	3	3	2	
PO 4	1	2	2	2	
PO 5	1	1	1	1	
PO 6	3	3	3	3	
PO 7	2	2	2	2	
PO 8	2	2	3	3	
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance					

Course Code: 5.5BID 30

Name of Course: Practical Training-II

TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 0 Hour/ Week	Total Marks Allocated: 100	Theory: 0
Studio /Practical: 06 Hours /Week (for report preparation & viva guidance)	End Semester Viva–Voce (Jury): 60 Internal Assessment: 40	Practical/ Studio Work: 03
		Total Credits: 03
Training Duration:		
Minimum 4–6 Weeks (Summer Vacation after Semester–IV)		
Course Objectives:		
- To expose students to real professional working environments in the field of interior design. - To understand office procedures, site practices, and coordination with various agencies. - To develop practical skills through hands-on involvement in ongoing projects / product manufacturing units. - To train students in systematic documentation and professional presentation of their training experience.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Demonstrate understanding of professional practice in interior design and allied fields. CO2: Identify materials, construction techniques, working drawings, and execution processes used in real projects. CO3: Prepare a detailed training report supported with drawings, photographs, and work documentation. CO4: Present the professional experience effectively through portfolio and viva-voce.		
Course Content:		
After the completion of Semester–IV, each student shall undergo Practical / Field Training for a minimum duration of 4–6 weeks during the summer vacation. The training may be in the form of an internship or Skill-Based Field Training under product manufacturers, contractors, interior designers, architects' offices, or any other relevant organization as approved by the Programme Coordinator or Head of Department (HoD). During the training the student shall be exposed to: - Office working procedures and drawing documentation - Preparation / understanding of working drawings and details - Site visits and execution processes - Material selection and vendor coordination - Basic estimation and quantity take-off - Product manufacturing / installation techniques - Professional interaction and project coordination The student shall maintain a daily logbook certified by the industry supervisor and prepare a detailed training report in Semester–V consisting of: - Profile of the organization - Nature of projects / products handled - Office workflow and site activities - Drawings / details (where permitted) - Materials and construction techniques studied - Learning outcomes and self-assessment In Semester–V, the student shall prepare a detailed report of the training undertaken and appear for a viva-voce examination based on the work completed, to be conducted by internal/external jury members.		

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) - Logbook & industry supervisor feedback – 20 marks - Report work progress / presentation – 20 marks			
PART-B	End of course assessment of 60% marks consisting viva-voce examination based on the work completed, to be conducted by internal/external jury members.			
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	3	2	2
PO 3	3	3	3	3
PO 4	2	2	3	3
PO 5	1	2	2	2
PO 6	3	3	3	3
PO 7	2	2	2	2
PO 8	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

SEMESTER-VI

Course Code: 5.5BID 31		
Name of Course: Health, Safety & Environment		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 03 Hour/ Week	Total Marks Allocated: 100	Theory: 03
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 0
Course Objectives:		
- To introduce students to health, safety and environmental regulations applicable to construction and interior sites. - To develop awareness about safety hazards and preventive measures during project execution. - To familiarize students with the use of personal protective equipment and safe work practices. - To enable students to apply HSE principles during site supervision and project management.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Explain the legal framework related to health and safety in construction industry. CO2: Identify safety hazards and recommend preventive measures for interior works. CO3: Apply safe working practices and PPE requirements at site. CO4: Prepare basic safety checklists and emergency response plans.		
Course Content:		
UNIT-I	Legal Framework for Health, Safety & Environment - Overview of laws related to construction industry - The Building and Other Construction Workers Act, 1996 - Roles and responsibilities of stakeholders for safety - Environmental considerations in construction activities	(07 Hours)
UNIT-II	Health, Hygiene & Safety Hazards - Occupational health and hygiene - Identification of safety hazards on interior sites - Manual handling and ergonomics - Hazardous materials used in interior works - Noise and indoor air quality	(08 Hours)
UNIT-III	Safety in Construction Operations - Safety in use of machines and equipment - Electrical safety - Working at height (false ceiling, services installation) - Fire safety in interior projects - Personal Protective Equipment (PPE) and safety signage	(15 Hours)
UNIT-IV	Emergency Procedures & Safety Management - Emergency preparedness and evacuation procedures - Accident reporting and investigation - Safety checklists for interior works - Structural safety awareness during alterations and renovations - Role of supervisor in implementing safety systems	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of written exam.			
Text Books:				
• K.K. Chitkara – <i>Construction Project Management</i> • V.J. Davies & K. Tomasin – <i>Construction Safety Handbook</i> • National Building Code of India (relevant provisions)				
Reference Books:				
• The Building & Other Construction Workers Act, 1996 • IS codes for safety in construction • OSHA guidelines (concept level)				
E- Resources:				
• Ministry of Labour & Employment – safety guidelines • NBC online provisions • Construction safety training videos • Case studies on site safety				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	2	2	2
PO 3	2	3	2	2
PO 4	1	2	2	2
PO 5	1	1	1	1
PO 6	3	3	3	3
PO 7	3	3	3	2
PO 8	2	2	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 32		
Name of Course: Interior design project-I		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 08 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 04
	Internal Assessment: 40	Total Credits: 06
Course Objectives:		
- To enable the student to independently handle an interior design project from concept to final presentation. - To integrate knowledge of planning, services, materials, construction details and specifications. - To develop research-based design approach and professional presentation skills. - To prepare students for professional practice through comprehensive project development.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Develop a complete interior design project based on research and user requirements. CO2: Prepare coordinated working drawings and construction details. CO3: Propose services, materials, furniture and finishes for the project. CO4: Present the project through drawings, 3D views, models and a detailed design report.		
Course Content:		
UNIT-I	Project Identification & Research - Selection of project in consultation with the guide - Literature study and case studies - Client profile and user requirement analysis - Site analysis and project brief formulation - Concept development and space planning	(30 Hours)
UNIT-II	Design Development - Zoning and circulation - Functional layout and furniture planning - Selection of materials, finishes and colour schemes - Integration of building services in design - Sustainable design considerations	(40 Hours)
UNIT-III	Working Drawings & Technical Details - Preparation of detailed working drawings - Interior construction details - Reflected ceiling plan and service coordination - Furniture and joinery details - Preparation of estimate and basic specifications	(40 Hours)
UNIT-IV	Project Presentation & Report 3D views / visualizations / physical model - Preparation of presentation drawings - Compilation of design report including: ➤ Project objectives ➤ Design concept ➤ Design development stages ➤ Materials and services - Final jury presentation	(40 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of evaluation by the Jury.			
Text Books:				
- Time Saver Standards for Interior Design - Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> - Francis D.K. Ching – <i>Interior Design Illustrated</i>				
Reference Books:				
- NBC (relevant provisions) - IS standards for interior works - Manufacturer catalogues for materials & services				
E- Resources:				
- Live project case studies - Working drawing repositories - BIM / CAD presentation references - Material specification databases				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	2	2
PO 2	3	3	2	2
PO 3	3	3	3	3
PO 4	2	2	2	3
PO 5	2	3	2	3
PO 6	2	2	3	2
PO 7	2	2	2	2
PO 8	3	3	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 33		
Name of Course: Measurement & Billing		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100	Theory: 01
Studio /Practical: 02 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 01
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To develop skills for taking measurements from interior drawings and site conditions. - To prepare quantity take-off for various interior items using standard methods. - To familiarize students with DSR for rate reference and abstract preparation. - To enable preparation of client billing and sub-contractor billing formats. - To introduce measurement documentation used in professional practice.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Take measurements for interior works using standard methods. CO2: Prepare BOQ and quantity take-off from drawings. CO3: Develop client and sub-contractor billing formats. CO4: Prepare abstract cost sheet using DSR rate reference.		
Course Content:		
UNIT-I	Measurement Techniques for Interior Works - SI system of units and modular coordination - Standard methods of measurement for: - Flooring - Wall finishes - False ceiling - Partitions - Painting and polishing - Measurement from working drawings	(07 Hours)
UNIT-II	Quantity Take-off & DSR Application - Introduction to DSR and item identification - Units and item descriptions - Quantity take-off for selected interior components - Preparation of BOQ for a small interior project	(08 Hours)
UNIT-III	Measurement Documentation - Format of measurement sheet - Preparation of abstract of quantities - Work order – basic understanding - Specification reference for measured items	(15 Hours)
UNIT-IV	Billing Procedures - Client billing format - Sub-contractor billing format - Running bill (concept level) - Final bill preparation - Certification stages and payment process	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
- S.C. Rangwala – <i>Estimating & Costing</i> - D.S.R. (Latest Edition)				
Reference Books:				
- IS 1200 – Method of Measurement - CPWD specifications (relevant items) - Professional practice manuals for interior works				
E- Resources:				
- CPWD DSR online references - Quantity take-off tutorials - Excel BOQ templates - Interior project billing case studies				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	2	2
PO 3	2	3	2	2
PO 4	1	2	2	2
PO 5	2	3	2	2
PO 6	3	3	3	3
PO 7	1	1	1	1
PO 8	2	2	3	2
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 34		
Name of Course: Professional Behavior, Etiquettes and Ethics		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 03 Hour/ Week	Total Marks Allocated: 100	Theory: 03
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 03
Course Objectives:		
- To develop professional behavior and workplace etiquette for interior design practice. - To create awareness about ethical responsibilities towards clients, consultants and society. - To familiarize students with professional communication methods and office culture. - To introduce career pathways, professional practice models and legal aspects of the profession.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Demonstrate professional communication and workplace etiquette. CO2: Apply ethical principles in interior design practice. CO3: Understand professional roles, career opportunities and fee structures. CO4: Interpret basic legal provisions related to professional practice and consumer rights.		
Course Content:		
UNIT-I	Professional Environment & Workplace Etiquettes - Corporate expectations in multicultural work environment - Gender sensitive and inclusive professional behavior - Verbal and non-verbal communication - Telephone, meeting and presentation etiquette - Email and digital communication ethics	(07 Hours)
UNIT-II	Professional Practice in Interior Design - Career opportunities in interior design field - Types of design practice: ➤ Freelance ➤ Consultancy ➤ Design firm ➤ Turnkey projects - Client–designer relationship - Fee structure and mode of appointment	(08 Hours)
UNIT-III	Professional Ethics & Code of Conduct - Ethical responsibilities in design profession - Intellectual property rights and plagiarism - Office discipline and time management - Handling confidential project information - Professional conduct during site execution	(15 Hours)
UNIT-IV	Legal Awareness & Project Handling - Consumer Protection Act – concept for designers - Agreement between client and interior designer - Handling of orders and project documentation - Basic knowledge of contracts and liabilities - Professional portfolio and personal branding	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of written exam.			
Text Books:				
- Christine M. Piotrowski – <i>Professional Practice for Interior Designers</i> - Albert W. Rubeling – <i>Interior Design: A Professional Guide</i>				
Reference Books:				
- COA / IIID professional practice guidelines - Time Saver Standards for Interior Design - Standard client–designer agreement formats				
E- Resources:				
- IIID professional documents - Portfolio development platforms - TED talks on professional ethics - Case studies on design practice				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	2	2	2
PO 3	2	2	2	2
PO 4	3	3	2	2
PO 5	1	1	1	1
PO 6	3	3	3	3
PO 7	2	3	2	3
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 35		
Name of Course: Basics of Interior Project Management		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To introduce the fundamentals of project management in interior design projects. - To develop understanding of project planning, scheduling and resource management. - To familiarize students with coordination between client, contractor and consultants. - To enable preparation of basic project execution documents.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Understand stages of interior project execution. CO2: Prepare basic project schedules and work sequences. CO3: Apply coordination methods for materials, vendors and site activities. CO4: Develop project monitoring and reporting formats.		
Course Content:		
UNIT-I	Introduction to Interior Project Management - Definition and scope of project management - Role of interior designer as project coordinator - Stages of an interior project: Client brief, Design development, Execution, Handover - Project constraints: time, cost and quality	(07 Hours)
UNIT-II	Project Planning & Scheduling - Work breakdown structure (WBS) – concept - Activity sequencing for interior works - Preparation of bar chart / basic project schedule - Time estimation for interior activities - Resource planning (labour, materials, equipment)	(08 Hours)
UNIT-III	Project Execution & Coordination - Tendering and work order (concept) - Vendor selection and material procurement process - Site coordination with Contractors, Consultants, Suppliers - Quality control during execution - Handling site meetings and documentation	(07 Hours)
UNIT-IV	Project Monitoring & Handover - Progress tracking and reporting formats - Cost monitoring (link with BOQ & billing) - Managing delays and site issues - Snag list preparation - Project completion and handover documentation	(08 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting of Written examination.			
Text Books:				
• K.K. Chitkara – <i>Construction Project Management</i> • Joseph Heagney – <i>Fundamentals of Project Management</i> • Christine M. Piotrowski – <i>Professional Practice for Interior Designers</i>				
Reference Books:				
• CMAA – Project Management Guidelines • PMBOK (concept level) • Interior project case studies				
E- Resources:				
• MS Project / project scheduling tutorials (basic exposure) • Interior execution workflow videos • Site management case studies • Vendor coordination documentation samples				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	2	3	2	2
PO 3	2	3	3	2
PO 4	2	2	2	2
PO 5	1	1	1	1
PO 6	3	3	3	3
PO 7	2	2	2	2
PO 8	2	2	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID E4		
Name of Course: Exhibition & Experience Design		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
- To introduce the principles of exhibition and spatial experience design. - To develop skills in temporary space planning and visitor movement. - To understand integration of graphics, lighting and display systems. - To create narrative-based interior environments for exhibitions and events.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Plan exhibition spaces based on theme and visitor flow. CO2: Design display systems and temporary spatial elements. CO3: Integrate graphics, lighting and multimedia in exhibition design. CO4: Present a complete exhibition design project.		
Course Content:		
UNIT-I	Introduction to Exhibition & Experience Design - Evolution and types of exhibitions ➤ Trade fair ➤ Museum ➤ Art gallery ➤ Brand pavilion - Spatial storytelling and thematic interpretation - User experience and visitor engagement	(07 Hours)
UNIT-II	Space Planning & Circulation - Zoning of exhibition spaces - Visitor movement patterns - Display hierarchies - Modular and temporary structures - Stall and pavilion design	(08 Hours)
UNIT-III	Display & Communication Systems - Types of display systems - Graphics and signage in exhibitions - Interactive and digital displays (concept level) - Lighting for exhibitions and display objects - Material selection for temporary installations	(15 Hours)
UNIT-IV	Design Development & Presentation - Concept development for an exhibition project - Preparation of layout and 3D views - Detailing of display units - Branding and visual identity in exhibition space - Project presentation and model making	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
- Philip Hughes – <i>Exhibition Design</i> - Martin M. Pegler – <i>Visual Merchandising & Display</i> - Jan Lorenc – <i>What is Exhibition Design?</i>				
Reference Books:				
- Time Saver Standards for Interior Design - Museum and gallery case study publications - Event and pavilion design manuals				
E- Resources:				
- Expo pavilion case studies - Museum virtual walkthroughs - Brand experience design videos - ArchDaily / Dezeen exhibition projects				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	2	2
PO 3	3	3	3	3
PO 4	2	2	2	3
PO 5	1	1	1	1
PO 6	2	2	2	2
PO 7	1	1	1	1
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID E5		
Name of Course: Universal Design & Barrier-Free Interiors		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
- To introduce the principles of universal design and inclusive interior environments. - To understand accessibility standards for differently-abled and elderly users. - To develop skills for planning barrier-free interior spaces. - To integrate ergonomic, safety and wayfinding considerations in design.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Apply universal design principles in interior space planning. CO2: Design barrier-free circulation, furniture and sanitary facilities. CO3: Interpret accessibility guidelines and standards in design solutions. CO4: Prepare inclusive interior design proposals for public and private buildings.		
Course Content:		
UNIT-I	Introduction to Universal Design - Concept and need for universal design - Seven principles of universal design - Anthropometry and ergonomics for diverse users - Categories of users	(07 Hours)
UNIT-II	Accessibility Standards & Guidelines - National Building Code provisions for accessibility - Barrier-free standards for interior spaces - Minimum dimensions for Corridors, Doorways, Ramps, Lifts - Tactile flooring and signage	(08 Hours)
UNIT-III	Barrier-Free Interior Space Planning - Accessible toilets and kitchens - Furniture design for universal use - Circulation and turning radius for wheelchairs - Lighting and colour contrast for visually impaired users - Safety considerations in interior elements	(15 Hours)
UNIT-IV	Inclusive Design Application & Case Studies - Universal design in Residences, Educational buildings, Healthcare spaces, Public interiors - Wayfinding systems for inclusive environments - Retrofitting existing interiors for accessibility - Design project development and presentation	(15 Hours)
STUDIO / PRACTICAL OUTPUTS - Anthropometric study for special user groups - Barrier-free toilet layout - Accessible kitchen / bedroom design - Circulation diagram with wheelchair turning radius - Universal design audit of an existing interior space		

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
- Wolfgang F.E. Preiser & Korydon H. Smith – <i>Universal Design Handbook</i> - Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> - National Building Code of India – Accessibility provisions				
Reference Books:				
- Harmonised Guidelines for Barrier-Free Built Environment (Govt. of India) - ADA Standards for Accessible Design (concept reference) - Time Saver Standards for Interior Design				
E- Resources:				
- Accessible India Campaign (Sugamya Bharat Abhiyan) guidelines - Universal design case studies - Inclusive design research publications - WHO accessibility resources				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	2	2
PO 3	3	3	3	3
PO 4	2	2	2	3
PO 5	1	1	1	1
PO 6	2	2	2	2
PO 7	3	3	3	3
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID E6		
Name of Course: Energy Efficient Interiors		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 02 Hour/ Week	Total Marks Allocated: 100	Theory: 02
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 02
Course Objectives:		
- To understand the role of interior design in reducing building energy consumption. - To develop knowledge of daylighting, artificial lighting and thermal performance in interiors. - To familiarize students with ECBC and NBC provisions related to energy efficiency. - To enable energy-conscious design decision making for interior spaces.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Explain energy consumption patterns in interior environments. CO2: Apply daylighting and artificial lighting strategies for energy efficiency. CO3: Select materials and interior elements that enhance thermal and visual comfort. CO4: Analyse interior spaces using basic energy efficiency parameters.		
Course Content:		
UNIT-I	Fundamentals of Energy Efficiency in Interiors - Energy consumption in buildings – role of interior design - Concepts of thermal comfort and visual comfort - Heat gain through lighting, materials and equipment - Building envelope vs interior components	(07 Hours)
UNIT-II	Daylighting in Interior Spaces - Daylight as a source of energy saving - Factors affecting daylight penetration - Space planning for daylight optimization - Glare control and shading devices - Reflectance of interior surfaces	(08 Hours)
UNIT-III	Energy Efficient Lighting Systems - Energy efficient light sources (LED and advanced systems) - Lighting power density – ECBC concept - Task lighting and ambient lighting optimization - Lighting controls – sensors, dimmers and automation (concept) - Energy saving through lighting design	(15 Hours)
UNIT-IV	Energy Efficient Materials, Codes & Applications - Interior materials affecting thermal performance - Low energy and environmentally responsible materials - ECBC and NBC provisions for lighting and energy efficiency - Energy efficient interior design for Offices, Retail spaces, Residential buildings - Case studies of energy efficient interiors	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting Written examination.			
Text Books:				
• Lisa Heschong – <i>Daylighting and Interior Design</i> • Gary Gordon – <i>Interior Lighting for Designers</i> • ECBC – Energy Conservation Building Code (relevant sections)				
Reference Books:				
• National Building Code – Energy efficiency provisions • IGBC Green Interiors (Energy section – concept) • Sustainable Building Systems for Interiors – Lisa Tucker				
E- Resources:				
• ECBC user guide • BEE energy efficiency manuals • Daylighting case studies • Energy efficient lighting design guides				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	2	2
PO 3	2	2	2	2
PO 4	2	2	2	2
PO 5	1	1	1	1
PO 6	2	2	2	2
PO 7	3	3	3	3
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

SEMESTER-VII

Course Code: 6BID 36		
Name of Course: Building Services		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 03 Hour/ Week	Total Marks Allocated: 100	Theory: 03
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 03
Course Objectives:		
- To develop understanding of building services in relation to interior design. - To enable coordination of electrical, HVAC, plumbing and fire safety systems with interior spaces. - To familiarize students with service layouts, spatial requirements and integration in design. - To introduce relevant NBC provisions and service planning principles.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Identify various building services and their spatial requirements. CO2: Interpret service drawings and coordinate them with interior layouts. CO3: Apply service integration principles in interior design projects. CO4: Analyse building service systems for different building typologies.		
Course Content:		
UNIT-I	Introduction to Building Services in Interiors - Role of building services in interior design - Service planning and vertical & horizontal distribution - Service shafts and ducts - Coordination between structure, services and interiors	(07 Hours)
UNIT-II	Electrical & Lighting Services - Electrical load requirements for interior spaces - Power distribution and wiring systems - Switchboards and panel locations - Lighting integration with false ceiling - Emergency lighting and signage	(08 Hours)
UNIT-III	HVAC & Mechanical Services - Principles of air-conditioning - Types of HVAC systems: Split units, VRV / VRF, Central air-conditioning - Duct layouts and ceiling coordination - Fresh air requirements and indoor air quality	(15 Hours)
UNIT-IV	Plumbing Services - Water supply and drainage in interior spaces - Sanitary fixture planning - Pipe routing and slope requirements Fire Safety - Fire detection and alarm systems - Sprinkler system and spacing - Fire escape and refuge areas - Overview of fire-resistant interior materials	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting Written examination.			
Text Books:				
- Corky Binggeli – <i>Building Systems for Interior Designers</i> - Fred Hall & Roger Greeno – <i>Building Services Handbook</i>				
Reference Books:				
- National Building Code of India (relevant sections) - IS codes for electrical & fire safety (concept level) - Time Saver Standards for Interior Design				
E- Resources:				
- HVAC system installation videos - Electrical & lighting layout case studies - Fire safety system documentation - Smart building service integration examples				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	2	2
PO 2	3	3	2	2
PO 3	2	3	3	2
PO 4	2	2	2	2
PO 5	1	1	1	1
PO 6	3	3	3	3
PO 7	2	2	2	2
PO 8	2	2	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 6BID 37		
Name of Course: Research Methods and Academic Writing		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 03 Hour/ Week	Total Marks Allocated: 100	Theory: 03
Studio /Practical: 0 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 0
	Internal Assessment: 40	Total Credits: 03
Course Objectives:		
- To introduce students to the fundamentals of research in interior design and built environment. - To develop the ability to identify research problems and formulate research proposals. - To familiarize students with qualitative and quantitative research methods. - To develop academic writing, referencing and documentation skills.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Identify and formulate a research problem in the field of interior design. CO2: Select appropriate research methods for data collection and analysis. CO3: Apply academic writing conventions and referencing styles. CO4: Prepare a structured research report.		
Course Content:		
UNIT-I	Introduction to Research in Interior Design - Meaning and significance of research in design - Types of research: basic, applied, qualitative, quantitative - Research in interior design, architecture and built environment - Identification of research problem - Research objectives and research questions - Scope and limitations of a study	(07 Hours)
UNIT-II	Research Process & Methods - Research methodology - Literature review – purpose and techniques - Data collection methods: Field studies, Case studies, Surveys and questionnaires, Interviews, Observations - overview of sampling techniques - Data documentation and field recording	(08 Hours)
UNIT-III	Data Analysis & Interpretation - Qualitative data analysis (content analysis, visual analysis) - Quantitative data basics (tabulation, charts, simple interpretation) - Use of graphics and diagrams in research - Drawing inferences and forming conclusions - Ethics in research and plagiarism awareness	(15 Hours)
UNIT-IV	Academic Writing & Research Report Preparation - Structure of a research report / dissertation - Referencing styles - Citation methods - Preparation of bibliography - Use of tables, figures and illustrations - Introduction to writing for seminars, conferences and journals	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks consisting Written examination.			
Text Books:				
- Linda Groat & David Wang – <i>Architectural Research Methods</i> - Wayne C. Booth – <i>The Craft of Research</i>				
Reference Books:				
- Kate L. Turabian – <i>A Manual for Writers of Research Papers</i> - Joseph Gibaldi – <i>MLA Handbook for Writers of Research Papers</i> - Creswell – <i>Research Design</i>				
E- Resources:				
- Google Scholar - Shodhganga - Scopus preview - ResearchGate - Mendeley / Zotero (reference management tools) - APA / Harvard referencing guides				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	2	2	2
PO 2	3	3	2	2
PO 3	2	2	2	2
PO 4	3	3	3	3
PO 5	1	1	1	1
PO 6	2	2	2	2
PO 7	1	1	1	1
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 6BID 38

Name of Course: Interior design project-II

TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 03 Hour/ Week	Total Marks Allocated: 100	Theory: 03
Studio /Practical: 14 Hours /Week	End Semester Examination: 60	Practical/ Studio Work: 07
	Internal Assessment: 40	Total Credits: 10

Course Objectives:

- To enable students to independently undertake a comprehensive interior design project.
- To integrate research, design development, technical resolution and service coordination.
- To develop professional level documentation and presentation skills.
- To expose students to real-life design processes through live or simulated projects.

Course Outcomes:

After successful completion of the course, the student will be able to:

CO1: Formulate a research-based interior design project.

CO2: Develop comprehensive planning for large-scale interior spaces.

CO3: Prepare detailed working drawings with services integration.

CO4: Present a complete professional design project.

Course Content:

Guide provision:

- Each student shall be allotted one Internal Guide from the department.
- Students may choose one External Guide from:
 - Interior design firms
 - Architectural practices
 - Industry professionals
- The external guide must be approved by the Head of the Department.
- The project shall be identified and chosen by the student and approved by the HoD/ coordinator.
- The project may be Live / Real project or Hypothetical project (based on a realistic site and client profile).
- The selected Interior Design Project shall be of a large-scale and complex nature with a minimum built-up area not less than the prescribed limit (preferably 1500 sq.m. or above), irrespective of the project typology.
- The project may be from areas such as hospitality, corporate and IT workplaces, retail, healthcare, institutional, cultural and exhibition spaces, co-working hubs, convention centres, transit interiors, luxury residential developments, student housing, entertainment centres, experience centres, public libraries, spiritual centres, adaptive reuse or heritage interiors, design and media studios, lifestyle retail centres and similar complex interior environments.
- In cases involving high technical complexity, multi-level spatial development, or intensive service integration, the minimum area requirement may be relaxed subject to approval by the Departmental Project Review Committee.

UNIT-I	Project Initiation & Research • Project identification and approval • Client profile and project brief • Site study and context analysis • Case studies • Design program and area statement • Concept development	(45 Hours)
UNIT-II	Design Development • Zoning and space planning • Circulation and ergonomics • Design language and material palette • Lighting and ambience • Sustainable and universal design integration	(60 Hours)
UNIT-III	Technical Resolution • Working drawings • Reflected ceiling plan • Electrical & lighting layout • HVAC coordination (concept level) • Plumbing layouts (wherever required) • Interior construction details • Custom furniture details • Material specifications	(75 Hours)
UNIT-IV	Project Documentation & Presentation • 3D views / physical model • Presentation drawings • Complete project report • Portfolio sheets • Project report shall include: • Project introduction • Literature & case studies • Site analysis • Concept • Design development • Working drawings • 3D views • Material & services integration • Estimate (basic) • Conclusion	(75 Hours)
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)	
PART-B	End of course assessment of 60% marks consisting of evaluation by the Jury.	
Text Books:		
• Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> • Neufert – <i>Architects' Data</i> • Ernst & Peter Neufert – <i>Architects' Data</i> (Indian Edition) • Corky Binggeli – <i>Interior Design Illustrated</i>		

Reference Books:				
• Time Saver Standards for Interior Design – Joseph De Chiara • Building Construction Illustrated – Francis D.K. Ching • Interior Graphic Standards – Corky Binggeli • National Building Code of India (relevant sections) • Ernst Neufert – <i>Space Planning in Architecture</i>				
E- Resources:				
• MoEF & NBC online documents • IGBC / GRIHA project case studies • Architectural design studio project repositories • AutoCAD / BIM based working drawing tutorials • Design competition portals (for advanced references)				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	3	3	3	3
PO 2	3	3	3	3
PO 3	3	3	3	3
PO 4	3	3	3	3
PO 5	2	2	2	2
PO 6	3	3	3	3
PO 7	2	2	2	2
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 6BID E1		
Name of Course: Interior Conservation & Adaptive Reuse		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
• To introduce the principles and ethics of conservation in interior spaces. • To understand historic interior elements, materials and construction techniques. • To develop skills for documentation and condition assessment of heritage interiors. • To propose adaptive reuse strategies for historic buildings with new functions.		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Understand the significance and principles of interior conservation.		
CO2: Document and analyse historic interior spaces and their components.		
CO3: Develop adaptive reuse proposals for heritage interiors.		
CO4: Integrate modern services sensitively within existing historic structures.		
Course Content:		
UNIT-I	Introduction to Interior Conservation • Concepts and definitions: conservation, preservation, restoration, adaptive reuse • Values of heritage interiors – architectural, cultural and functional • Conservation ethics and guidelines • Overview of national and international conservation charters • Role of interior designer in conservation projects	(10 Hours)
UNIT-II	Documentation & Condition Assessment • Measured drawing of historic interiors • Photographic documentation techniques • Identification of materials and finishes • Surface study – walls, floors, ceilings, openings, built-in furniture • Condition mapping and defect analysis Studio Exercise: Documentation of a selected historic interior	(10 Hours)
UNIT-III	Adaptive Reuse Strategies • Principles of adaptive reuse • Space planning in existing built fabric • Insertion of new functions in historic interiors • Structural and spatial constraints • Integration of lighting, HVAC and services in heritage buildings	(10 Hours)
UNIT-IV	Design Proposal for Adaptive Reuse • Selection of a heritage interior for reuse • User analysis and new functional requirements • Concept development • Interior design intervention with minimum alteration • Material compatibility and reversibility • Final presentation and report Studio Exercise: Adaptive reuse project	(15 Hours)

Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
- John F. G. Weaver – <i>Conserving Buildings</i> - Sir Bernard Feilden – <i>Conservation of Historic Buildings</i> - Francis D.K. Ching – <i>Interior Design Illustrated</i>				
Reference Books:				
- B.K. Thapar – <i>Conservation of Architectural Heritage</i> - INTACH – <i>Guidelines for Conservation of Heritage Buildings</i> - Miles Lewis – <i>Adaptive Reuse: Issues and Case Studies</i> - UNESCO – <i>Historic Interior Conservation Manuals</i>				
E- Resources:				
- INTACH conservation guidelines - UNESCO heritage documentation manuals - ArchDaily – adaptive reuse case studies - National Mission on Monuments & Antiquities (India) - Getty Conservation Institute resources				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	3	2
PO 2	3	3	3	2
PO 3	2	2	3	3
PO 4	2	3	3	3
PO 5	1	1	1	1
PO 6	2	2	2	2
PO 7	3	3	3	2
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 6BID E2		
Name of Course: Interior Landscape Design		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
• To introduce the concept of interior landscape and its role in spatial design. • To understand biophilic design principles in interior environments. • To develop skills for integrating vegetation, water and natural elements within built spaces. • To design climate-responsive and experiential interior landscape environments.		
Course Outcomes:		
After successful completion of the course, the student will be able to:		
CO1: Understand the role of landscape elements in interior environments.		
CO2: Select appropriate plant species based on light, microclimate and spatial function.		
CO3: Develop interior landscape layouts for different building typologies.		
CO4: Integrate biophilic and sustainable strategies in interior design projects.		
Course Content:		
UNIT-I	Introduction to Interior Landscape & Biophilic Design • Concept and scope of interior landscape • Relationship between built space and natural elements • Principles of biophilic design • Psychological and environmental benefits • Types of interior landscape spaces	(Hours)
UNIT-II	Planting Design for Interior Spaces • Criteria for plant selection: Light availability, Temperature & humidity, Maintenance requirements etc. • Indoor plant species and their characteristics • Planters and planting systems • Vertical gardens / green walls • Hydroponic and modular planting systems	(Hours)
UNIT-III	Hardscape & Environmental Integration • Hardscape elements in interior landscape • Water features in interiors • Lighting for interior landscape • Irrigation and drainage • Microclimate creation in large interior spaces	(Hours)
UNIT-IV	Case Studies of Interior Landscape Environments • Study of interior landscape in various building typologies, based on following analysis parameters: – Spatial integration of landscape elements – Plant selection and microclimate response – Natural light and ventilation – Hardscape and water features – User experience and wellbeing	(Hours)

	• Case study of terrace gardens and spill-out spaces in built environments. • Study of healing and experiential interior landscapes. • Preparation of a case study report with inference for design application.			
Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
• Ian C. Laurie – <i>Introduction to Landscape Architecture</i> • Time Saver Standards for Landscape Architecture • Francis D.K. Ching – <i>Interior Design Illustrated</i>				
Reference Books:				
• Judith Heerwagen – <i>Biophilic Design and Interior Environments</i> • Nick Robinson – <i>The Planting Design Handbook</i> • George H. Marcus & Naomi A. Sachs – <i>Therapeutic Landscapes</i> • Stephen Kellert – <i>Biophilic Design</i>				
E- Resources:				
• IGBC Green Interiors – biophilic strategies • ArchDaily – interior landscape case studies • Dezeen – indoor green installations • Online plant databases for interior environments • Manufacturer catalogues for green wall systems				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	3	2
PO 2	3	3	3	2
PO 3	2	2	3	3
PO 4	2	3	3	3
PO 5	1	1	1	1
PO 6	2	2	2	2
PO 7	3	3	3	3
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 6BID E3		
Name of Course: Furniture Design & Prototyping		
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Theory: 01 Hour/ Week	Total Marks Allocated: 100 End Semester Examination: 60 Internal Assessment: 40	Theory: 01
Studio /Practical: 02 Hours /Week		Practical/ Studio Work: 01
		Total Credits: 02
Course Objectives:		
• To develop an understanding of furniture as an integral element of interior space. • To explore form, function, ergonomics and material in furniture design. • To learn joinery techniques and construction systems. • To design and develop a furniture prototype for a specific interior application.		
Course Outcomes:		
After successful completion of the course, the student will be able to: CO1: Understand furniture design principles and ergonomic requirements. CO2: Select appropriate materials and joinery systems for furniture construction. CO3: Develop detailed furniture drawings for interior applications. CO4: Design and fabricate a furniture prototype.		
Course Content:		
UNIT-I	Introduction to Furniture Design • Role of furniture in interior space making • Historical evolution of furniture • Types of furniture for different interior typologies • Ergonomics and anthropometric considerations • Form, function and structural stability	(10 Hours)
	Materials, Joinery & Construction Techniques • Timber, board materials, metal, glass and composites • Upholstery basics • Joinery techniques in wood and metal • Hardware and fittings • Surface finishes and polishing techniques	
UNIT-III	Furniture Design Development & Detailing • Furniture for specific interior spaces. • Design process: – Concept sketches – Form development – Material selection – Structural considerations • Preparation of detailed drawings: – Plans, elevations, sections – Exploded views – Joinery details	(10 Hours)
UNIT-IV	Furniture Prototyping • Prototype development process • Selection of material and construction method	(15 Hours)

	• Preparation of cutting list • Basic cost estimation • Fabrication of prototype / scaled working model • Evaluation of prototype for function and stability			
Assessment:				
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II)			
PART-B	End of course assessment of 60% marks based on Evaluation of submissions.			
Text Books:				
• Neufert – <i>Architects’ Data</i> (Furniture section) • Julius Panero & Martin Zelnik – <i>Human Dimension & Interior Space</i> • Jim Postell – <i>Furniture Design</i>				
Reference Books:				
• Chris Lefteri – <i>Materials for Design</i> • Time Saver Standards for Interior Design • Edward Allen – <i>Fundamentals of Furniture Design</i> • Furniture Detailing – Interior Graphic Standards				
E- Resources:				
• Manufacturer catalogues for fittings & hardware • Joinery and furniture fabrication videos • IKEA product construction studies • Dezeen / ArchDaily furniture case studies • Digital fabrication & CNC furniture references				
CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	2	3	2
PO 2	3	3	3	2
PO 3	2	3	3	3
PO 4	2	3	3	3
PO 5	2	2	2	2
PO 6	2	2	3	3
PO 7	1	1	1	1
PO 8	2	2	2	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				

Course Code: 5.5BID 39

Name of Course: Practical Training-II

TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOCATED:
Industry Guided 15 weeks practical training	Total Marks Allocated: 100	Theory: 0
	End Semester Viva-Voce (Jury): 60	Practical/ Studio Work: 20
	Internal Assessment: 40	Total Credits: 20
Training Duration:		
Minimum 15 Weeks		
Course Objectives:		
- To provide professional exposure through full-time industry training. - To enable students to understand real-time interior design projects and execution processes. - To develop skills in working drawings, material handling, site coordination and client interaction. - To bridge the gap between academic learning and professional practice.		
Course Outcomes:		
After successful completion of the training, the student will be able to: CO1: Understand professional working environment and office practices. CO2: Participate in design development, detailing and execution of interior projects. CO3: Demonstrate knowledge of materials, services and construction techniques used on site. CO4: Prepare a comprehensive training report and present professional learning outcomes.		
Course Content:		
The entire Semester VIII shall comprise a Practical/Field Training of a minimum duration of 15 weeks. Each student is required to undergo this training during the semester. The training may be in the form of an Internship or Skill-Based Field Training under product manufacturers, contractors, interior designers, architects' offices, or any other relevant organization as approved by the Programme Coordinator or Head of Department (HoD). During the course of training, students shall appear for CIA-I and CIA-II as part of the Continuous Internal Assessment process. After completion of the training, each student shall prepare a detailed report and appear for a viva-voce examination conducted jointly by the internal faculty member and an external jury member. For the viva-voce (total 60 marks), the internal faculty member shall award 40% of the marks, and the external jury member shall award 60% of the marks during the end-semester examination of Semester VIII. Documents to be submitted: - Training completion certificate from the organization - Attendance record - Work diary / logbook - Final training report - Portfolio of works done * The result for Semester VIII will be declared only after the successful completion of Practical Training-III.		
Assessment:		
PART-A	Continuous Internal Assessment of 40% marks (CIA-I + CIA-II) - Logbook & industry supervisor feedback – 20 marks - Report work progress / presentation – 20 marks	
PART-B	End of course assessment of 60% marks consisting viva-voce examination based on the work completed, to be conducted jointly by internal faculty and external jury. Weightage of end semester marks (total 60 marks) will be as follows: - Internal Faculty: 40% weightage - External Jury: 60% weightage	

CO-PO Mapping:				
	CO 1	CO 2	CO 3	CO 4
PO 1	2	3	3	2
PO 2	2	3	3	2
PO 3	2	3	3	2
PO 4	3	3	3	3
PO 5	2	2	2	2
PO 6	3	3	3	3
PO 7	2	2	2	2
PO 8	3	3	3	3
0= No Relevance 1= Low Relevance 2= Medium Relevance 3= High Relevance				