



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Architecture

B. Des in Interior Design

SEMESTER – IV

BDNS 401 – Interior Design Studio II

Course Code	Course Typology	Course Name	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					
			L	T	S		THEORY			PRACTICAL		Total Marks
							End Sem University Exam (50%)	Two Term Exam (20%)	Teachers Assessment* (30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS 401	Studio	Interior Design Studio II			8	8				270	180	450

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

This course focuses on designing commercial spaces that effectively communicate a theme through creative and innovative solutions. Students will explore various design languages, materials, and contexts to develop unique design proposals for showrooms, restaurants, and workspaces.

Course Outcomes (COs):

- **CO1-** To introduce the basics of designing for Commercial interiors and to develop skills required for the same..
- **CO2-** This course is intended to provide skills for designing single use interior spaces or products etc.
- **CO3-** To explore and create spatial design with respect to different genres.

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			L	T	S		THEORY			PRACTICAL			
							End Sem University Exam (50%)	Two Term Exam (20%)	Teachers Assessment* (30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)		
BDNS 401	Studio	Interior Design Studio II			8	8					270	180	450

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Syllabus

(128 HRS)

Design projects should focus on highlighting the theme of a commercial space, such as a showroom, restaurant, or workspace. Students will develop various design solutions that showcase the unique characteristics of each context. They should be able to establish a cohesive theme and create design solutions that represent this theme through diverse materials, design languages, and innovative approaches.

Schematic layouts

Final layout

Sectional elevations

Designs & details

Suggested Books References:

1. Time-Saver Standards for Interior Design and Space Planning, Joseph De Chiara, Julius Panero,
2. Space Planning for residential Interiors , Book by Mary Lou Bakker .

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B. Des in Interior Design

BDNS 402 – INTERIOR MATERIALS AND CONSTRUCTION-III

Course Code	Course Typology	Course Name	TEACHING SCHEME/WE EK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50%)	Two Term Exam (20%)	Teachers Assessment * (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment * (50%)	
BDNS 402	THEORY+ STUDIO	INTERIOR MATERIALS AND CONSTRUCTION-III	2		1	3	60	20	20	60	40	200

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

To explore the unique experience of ingenuity & creativity. The essence of creative domain can be achieved by exploring different technology, techniques, processes, concepts, compositions.

Course Outcomes (COs):

CO1• Understand the principles and methods of interior construction.

CO2• Gain knowledge of various construction materials and their applications.

CO3• Develop skills in reading and interpreting construction drawings and specifications.

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Course Code	Course Typology	Course Name	TEACHING SCHEME/ WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50%)	Two Term Exam (20%)	Teachers Assessment * (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment * (50%)	
BDNS 402	THEORY+STUDIO	INTERIOR MATERIALS AND CONSTRUCTION-III	2		1	3	60	20	20	60	40	200

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 1: - TIMBER DOORS & WINDOW

Elementary knowledge of types of doors such as Lugged and braced doors, panel doors, sliding and folding, pivoted, revolving, rolling shutters, glazed doors .their technical representation, basics of joinery details.

Ventilators- top hung, bottom hung pivoted, louvered, fixed types.

9 HRS

Module 2: -WINDOWS IN STEEL AND ALUMINIUM- Details of sliding and operable windows in aluminum and steel frames with glazed panels 3. Partitions Types of partitions on the basis of function such as fixed, sliding, sliding folding etc, on the basis of materials wood, glass, steel, aluminum, MDF, Plywood, Particle board, gypsum board etc.

9 HRS

Module 3: -METALS — Steel, iron, aluminum– characteristics, form and uses, properties, definition of terms, fixing and joinery in metals, finishing to metals.

9 HRS

Module 4: -- ROOFING AND FLOORING — Roofing tiles and asbestos cement products, sheets and fiber board's – properties, uses and application. various natural as well as artificial flooring materials like vitrified tiles, ceramic tiles, stones, mosaic, rubber, pvc flooring. Properties other uses and applications in the interiors.

11 HRS

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BDNS 402	THEORY +STUDIO	INTERIOR MATERIALS AND CONSTRUCTION- III	2		1	3	60	20	20	60	40	200

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 5: -- FABRICS AND OTHER FURNISHING MATERIALS — Fibers, textiles, fabric treatments, carpets, durries, tapestries, Drapery, upholstery, wall coverings, etc. –properties, uses and application in the interiors.. A brief overview of Green materials.
10 HRS

REFERENCE BOOKS:

1. "The Complete Book of Woodworking" by Tom Carpenter (Taunton Press, 2000)
2. "Carpentry and Joinery: A Comprehensive Guide" by Frederick M. Hooke (Whitney Library of Design, 2013)
3. "Woodworking: The Basics of Craftsmanship" by Scott Gibson (Taunton Press, 2012)
4. "The Woodworker's Handbook" by Richard Peters (Reader's Digest, 2012)

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BDNS 403 FURNITURE DESIGN -II

Course Code	Course Typology	Course Name	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS403	STUDIO	Furniture Design II			3	3				90	60	150

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

The main aim of the course is to provide knowledge of constructional details for different types of furniture.

Course Outcomes (COs):

- **CO1:** Practical knowledge should be provided to the students with the help of models, and hands on exercises
- **CO2:** Understanding of joinery in the workshops.
- **CO3:** Detailing of Modular Kitchens Understanding types of furniture used in a commercial interiors

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BDNS 403 FURNITURE DESIGN -II

Course Code	Course Typology	Course Name	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS403	STUDIO	Furniture Design II			3	3				90	60	150

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 1: MODULAR KITCHENS Modular kitchens, components basis of Construction involving, layout , hardware selection, fixing details finishes and special types such as tall units, grain trolleys, and carousels fold outs etc. A detailed project involving the design of a small kitchen using modular components. **09 HRS**

Module 2: FURNITURE IN COMMERCIAL SPACES

Forms of display units and its design, materials, finishes, various options Elements of furniture including shop front-its lighting, window display etc. Presentation by detailed drawings, understanding of construction techniques Commercial furniture – Showcases, Counters, Display units, Restaurant furniture, bar furniture . **09 HRS**

Module 3: OFFICE FURNITURE DETAILING of Office Furniture, cabinets, storage spaces, cabin furniture, waiting area furniture, workstations, computer tables, lockers, conference table. Etc. **09 HRS**

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BDNS 403	STUDIO	Furniture Design II			3	3				90	60	150

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 4: INNOVATIVE FURNITURES Innovative, contemporary furniture

designing .

10 HRS

Module 5: Project – Detailing of joinery and other specifications. Coffee tables, sofas, workstations, book shelves , beds , extensions.

11 HRS

REFERENCE BOOKS:

1. S.C Rangwala – engineering materials – Charotar publishing, Anand 1982
2. W.B Mckay, building construction, VOL 1-4, Longmans, u.k 1981
3. Laxmi publications Pvt. Ltd., New Delhi, 1993.
4. Dr. B.C Punmia , building construction , Laxmi publications Pvt. Ltd., New Delhi, 1993.
5. M.S Shetty , concrete technology , S. Chand & co . Ltd., New Delhi, 1986

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BDNS 404 INTERIOR SERVICES

Course Code	Course Typology	Course Name	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS404	THEORY	Interior Service	2			2	60	20	20			100

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

The objective is to provide first-year design students with a foundational understanding of essential building services, including plumbing, electrical systems, HVAC, and lighting design, enabling them to create functional, safe, and aesthetically pleasing interior spaces.

Course Outcomes (COs):

- **CO1:** Understand the importance of building services, such as plumbing, electrical, and HVAC, in creating functional and efficient interior spaces.
- **CO2:** Apply basic knowledge of plumbing systems, electrical wiring, and lighting design to develop safe and effective interior environments.
- **CO3:** Incorporate energy-efficient HVAC solutions and appropriate lighting techniques to enhance the comfort and aesthetics of interior spaces.

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							End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS404	THEORY	Interior Service	2			2	60	20	20			100

- **Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;
- ***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 1: Introduction to Interior Services

6HRS

- Importance of building services in interior design.
- Integration of services into design projects.

Module 2: Plumbing Systems

6HRS

- Water supply systems (hot and cold water).
- Drainage systems and waste disposal.
- Common plumbing fixtures: sinks, toilets, faucets.
- Sewage systems and their design considerations.

Module 3: Electrical Systems

6HRS

- Basics of electrical wiring and circuits.
- Types of lighting: ambient, task, accent.
- Switches, sockets, and power outlets.
- Electrical safety and load management.

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BDNS404	THEORY	Interior Service	2			2	60	20	20			100

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 4: HVAC (Heating, Ventilation, and Air Conditioning)

6HRS

- Types of HVAC systems and their applications.
- Principles of ventilation and air quality.
- Energy-efficient heating and cooling solutions.

Module 5: Lighting Design

8 HRS

- Natural vs. artificial lighting.
- Lighting fixtures and types.
- Light intensity, color temperature, and their effects on interiors.

• REFERENCE BOOKS:

1. “Interior Design: A True Beginner's Guide” by Thomas M. Lesley
2. “The Interior Design Reference & Specification Book” by Chris Grimley and Mimi Love
3. “Fundamentals of Building Construction: Materials and Methods” by Edward Allen and Joseph Iano
4. Architectural Drafting and Design” by Alan Jefferis and David A. Madsen
5. “Code Check: Plumbing” by Redwood Kardon.

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BDNS 405 COMPUTER APPLICATION-II

Course Code	Course Typology	Course Name	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS405	STUDIO	COMPUTER APPLICATION -II			2	2				60	40	100

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs): To provide students with the ability to proficiently use SketchUp for creating detailed 3D models, spatial layouts, custom furniture designs, and professional interior design presentations with realistic rendering and lighting.

Course Outcomes (COs):

- **CO1:** Demonstrate proficiency in using SketchUp tools for 3D modeling of interior spaces and furniture.
- **CO2:** Apply spatial planning techniques to create accurate and functional interior layouts based on real-world dimensions.
- **CO3:** Design and model custom furniture pieces and interior elements using advanced SketchUp tools and methods.

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BDNS405	STUDIO	COMPUTER APPLICATION -II			2	2				60	40	100

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 1: Introduction to SketchUp and Basic Tools. 6HRS

Module 2: Space Planning and Interior Layout. 6HRS

Module 3: Furniture Modeling and Customization. 6HRS

Module 4: Lighting, Shadows, and Rendering. 6HRS

Module 5: Presentation and Final Project. 8 HRS

REFERENCE BOOKS:

- *SketchUp for Interior Design* by Lydia Sloan Cline
- *SketchUp for Dummies* by Aidan Chopra
- *The SketchUp Workflow for Architecture* by Michael Brightman
- *Rendering in SketchUp* by Daniel Tal

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BDNS 406 WORKING DRAWING-I

Course Code	Course Typology	Course Name	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS406	STUDIO	WORKING DRAWING-I			3	3				90	60	150

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs): The course is designed to give knowledge about technical representation of designs.

Course Outcomes (COs):

- **CO1:** Demonstrate the ability to create detailed working drawings, including floor plans, elevations, and sections, using appropriate drawing standards and conventions.
- **CO2:** Develop accurate construction documentation that includes annotations, specifications, and schedules for interior design projects.
- **CO3:** Apply knowledge of design principles and construction techniques to produce comprehensive working drawings that effectively communicate design intent.

Module 1: SYMBOLS AND BUILDING ELEMENTS Working drawing of different types of building elements such as doors, windows, roof, floor, partitions, staircases, parapet, chajja, sill, lintel etc. knowledge about different types of lines , textures and symbols and their use. **09 HRS**

Module 2-INTERIOR ELEMENTS working drawing of wall murals reflected ceiling plans and flooring patterns, partitions. Working drawing of furniture such as work station, living room furniture, bedroom furniture and dining tables. Wardrobes, TV cabinet and showcase, crockery shelves, cadenza, chest of drawers, dressing table, etc . **09 HRS**

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BDNS406	STUDIO	WORKING DRAWING-I			3	3				90	60	150

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Module 3- PROJECT Detailed Set of Working drawings to be prepared of any Interior project with proper detailing of furniture, false ceiling, Floor patterns, wall elevations, toilets etc. **09HRS**

Module 4-Implementing Agencies & Applications of material-Types of Agencies - Plumbing agencies, flooring, false ceiling, sanitary fitting, electric contractors, Carpentry work, Construction, etc. and there working process, Application of green materials & uses. **11 HRS**

Module 5- Furniture Detailing of joinery and other specifications. **10 HRS**

Suggested Books References:

1. De Chiara et al – Time Saver standards for interior design and space planning, Mcgraw Hill, 1982.
2. Architectural Working Drawings – Import, 20 Sep 1999 by Ralph W. Liebing
3. The Professional Practice of Architectural Working Drawings – 30 Dec 2011 by Osamu A. Wakita (Author), Richard M. Linde (Author), Nagy R. Bakhoum (Author)

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B. Des in Interior Design

BDNS 407 ELECTIVE-IV

Course Code	Course Typology	Course Name	TEACHING SCHEME/WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	S		THEORY			PRACTICAL		
							End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS 308(1)	STUDIO	VISUAL AND PERFORMING ARTS			1	1					50	50
BDNS 308(2)		VERNACULAR ARCHITECTURE AND INTERIORS										
BDNS 308(3)		REPRESENTATION OF SPACES										

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):- Students will demonstrate critical thinking, creativity, and effective communication skills in analyzing and applying architectural and artistic concepts, integrating cultural, historical, social, sustainable, and ethical considerations through collaborative and practical approaches **Course Outcomes (COs):**

- **CO1- Demonstrate critical thinking and creativity in analyzing and expressing architectural and artistic concepts.**
- **CO2-Apply theoretical knowledge to practical applications in architecture, arts, and design.**
- **CO3-Develop effective communication skills through various mediums (visual, written, oral).**

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BDNS 407(1) Visual and Performing Arts in Design (16 Hours)

- **Introduction to Visual Arts**
 - Overview of visual arts and their impact on design
 - Study of color theory, composition, and form
 - **Assignment:** Create a visual art piece that reflects a design concept.
- **Performing Arts and Space**
 - Exploration of how performing arts influence spatial design
 - Case studies of theaters and performance spaces
 - **Assignment:** Analyze the design of a local performance venue.
- **Integrating Arts in Interior Spaces**
 - Methods to incorporate visual and performing arts into interior design
 - Discussion on art installations and their spatial considerations
 - **Assignment:** Propose an art installation for a public space.
- **Artistic Techniques for Representation**
 - Introduction to various artistic representation techniques (drawing, painting, digital)
 - Understanding how to convey design concepts through art
 - **Assignment:** Create a series of sketches representing an interior space concept.

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BDNS 407(2): Vernacular Architecture and Interiors (16 Hours)

- **Understanding Vernacular Architecture**
 - Definition and characteristics of vernacular architecture
 - Exploration of regional styles and cultural influences
 - **Assignment:** Research a specific vernacular architecture style and present findings.
- **Materials and Techniques**
 - Study of traditional materials and construction techniques in vernacular architecture
 - Examination of sustainability in vernacular designs
 - **Assignment:** Create a material board for a vernacular-inspired interior project.
- **Case Studies in Vernacular Design**
 - Analysis of successful vernacular architecture projects worldwide
 - Discussion of the adaptation of vernacular principles in modern design
 - **Assignment:** Choose a case study and analyze its design effectiveness.
- **Designing with Vernacular Principles**
 - Applying vernacular architecture concepts to interior design
 - Developing design solutions that reflect local culture and environment
 - **Assignment:** Design an interior space using vernacular principles.

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BDNS 407(3): Representation of Spaces (16 Hours)

- **Techniques for Representing Spaces**
 - Overview of traditional and digital representation methods (drawings, models, renderings)
 - Understanding scale, proportion, and perspective in space representation
 - **Assignment:** Create a scaled drawing of an interior space.
- **Advanced Visualization Techniques**
 - Introduction to 3D modeling software (SketchUp, AutoCAD)
 - Techniques for rendering realistic space representations
 - **Assignment:** Develop a 3D model of an interior space.
- **Conceptual Representation**
 - Exploring conceptual representation through mood boards and collages
 - Techniques for expressing design intent and atmosphere
 - **Assignment:** Create a mood board for an interior design project.
- **Final Project Preparation**
 - Integration of visual arts, vernacular architecture, and spatial representation in a cohesive project
 - Students will outline their final project focusing on a specific interior design challenge.

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Reference Books:

- “Art Through the Ages” by Helen Gardner
- “The Architecture of the City” by Aldo Rossi
- “Vernacular Architecture: An Introduction to Traditional Design” by R. B. Singh
- “The Visual and Performing Arts: A Handbook for Teachers” by Jane Bonbright
- “Representation and Reality in Architecture” by R. S. Nelson

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