

Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNS 301 – Interior Design Studio I

			l .	ACHI EME/V	NG VEEK			EX	AMINATION S	СНЕМЕ		
						SL		THEOR	Y	PRACT	ΓICAL	Total Marks
Course Code	Course Typology	Course Name	ame L		S	CREDI	End Sem University Exam (50%)	Two Term Exam (20%	Teachers Assessment* (30%)	End Sem University Exam (50%)	Teachers Assessmen t* (50%)	
BDNS 301	Studio	Interior Design Studio I			8	8				270	180	450

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

Course Educational Objectives (CEOs):

The Basic Design Studio course aims to develop students' skills in documenting and analyzing spaces through sketches and photography, while enhancing creativity in design through material selection and furniture design. It also focuses on teaching effective presentation techniques, including color rendering and graphic design to clearly communicate design concepts.

Course Outcomes (COs):

- CO1-Understand the fundamentals of residential space planning, anthropometrics and ergonomics.
- CO2-Apply design principles to create functional and efficient kitchens and toilets.
- CO3-Design harmonious and functional bedrooms and living rooms.

SYLLABUS

Module 1: Introduction to Residential Space Organization and Planning

25 HRS

- Overview of residential space planning
- Principles of space organization
- Anthropometrics and ergonomics
- Introduction to kitchen planning and design considerations

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



				ACHI EME/V	NG VEEK			EX	AMINATION S	СНЕМЕ		
						SL		THEOR	Y	PRAC	ΓICAL	Total Marks
Course Code			L	Т	S	CREDI	End Sem University Exam (50%)	Two Term Exam (20%	Teachers Assessment* (30%)	End Sem University Exam (50%)	Teachers Assessmen t* (50%)	
BDNS 301	Studio	Interior Design Studio- I			8	8				270	180	450

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

Module 2: Kitchen and Toilet Design

25 HRS

- Kitchen planning considerations
- Area requirements and layout analysis
- Work triangles and workflow optimization
- Lighting and ventilation systems
- Chimney outlets, drinking water, and storage solutions
- Modular kitchen design principles
- Toilet design: types, pipe layouts, fixtures, and finishes

Module 3: Bedroom and Living Room Design

25 HRS

- - Furniture layout and space planning
- - Texture, color psychology, and material selection
- - Wardrobe design and planning guidelines
- Lighting and ventilation strategies
- Accessories and decorative elements

Module 4: Product Designing for Residential Spaces - Single Function Products

26 HRS

- - Introduction to product design principles
- - Designing crockery items, utensils, and other single-function products
- Material selection and manufacturing processes
- - Ergonomics and user experience
- Case studies of successful product designs

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



			l .	ACHI EME/V	NG VEEK			EX	AMINATION S	СНЕМЕ		
	Course Cou					SL		THEOR	Y	PRACT	ΓICAL	Total Marks
Course Code	Course Typology	Course Name	L	Т	S	CREDI	End Sem University Exam (50%)	Two Term Exam (20%	Teachers Assessment* (30%)	End Sem University Exam (50%)	Teachers Assessmen t* (50%)	
BDNS 301	Studio	Interior Design Studio I			8	8				270	180	450

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

Module 5: Advanced Residential Space Planning and Design

27 HRS

- - Integration of sustainable design principles
- - Innovative materials and technologies
- Universal design and accessibility
- Designing for special needs and multigenerational living
- - Final project: comprehensive residential space design

Suggested Reference Books:

- 1. "Residential Spaces" by Stephen Weber (Wiley, 2017)
- 2. "The Residential Interior Design Guide" by Maryannah F. Johnson (Fairchild Books, 2018)
- 3. "Interior Design for Beginners" by Lisa M. Cregan (Rockport Publishers, 2019)

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



Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNS 302 – INTERIOR MATERIALS AND CONSTRUCTION-II

			1	ACHIN EME/V EK				EX	XAMINATION S	СНЕМЕ		
	Course Typology					SLI		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code	Typology	Course Name	L	Т	s	CREDITS	End Sem Universit y Exam (50%	Two Term Exam (20%	Teachers Assessment * (20%or 30%)	End Sem Universit y Exam (50%)	Teachers Assessment * (50%)	
BDNS302	THEORY+ STUDIO	INTERIOR MATERIALS AND CONSTRUCTION-II	2		1	3	60	20	20	60	40	200

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

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.

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



				ACHING EME/W K				ЕΣ	KAMINATION S	SCHEME		
						SLI		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code	Course Typology	Course Name	L	Т	s	CREDITS	End Sem Universit y Exam (50%	Two Term Exam (20%	Teachers Assessment * (20% or 30%)	End Sem Universit y Exam (50%)	Teachers Assessment * (50%)	
BDNS 302	THEORY+ST UDIO	INTERIOR MATERIALS AND CONSTRUCTION-II	2		1	3	60	20	20	60	40	200

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

MODULE 1- Carpentry Joints and Joinery

- Overview of carpentry joints and joinery
- Types of joints (mortise and tenon, dovetail, dado, etc.)
- Fixing and joinery details
- Introduction to timber doors and windows

9 HRS

MODULE 2- Timber Doors and Windows

- Types of doors (ledged and braced, panel, sliding, folding, pivoted, revolving, rolling shutters, glazed)
- Technical representation and joinery details
- Windows (casement, fixed, horizontal sliding, vertical sliding, pivoted, top hung)
- Ventilators (top hung, bottom hung, pivoted, louvered, fixed)

9 HRS

MODULE 3- Steel and Aluminium Windows, and Partitions

- - Sliding and openable windows in aluminum and steel frames
- - Glazed panels and technical specifications
- Types of partitions (fixed, sliding, folding) based on function and material (wood, glass, steel, MDF, plywood, particle board, gypsum board)
 9 HRS

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



				ACHINO EME/W K				ЕΣ	KAMINATION S	SCHEME		
	Course Course Nam					SLI		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code	Typology	Course Name	L	Т	s	CREDITS	End Sem Universit y Exam (50%	Two Term Exam (20%	Teachers Assessment * (20%or 30%)	End Sem Universit y Exam (50%)	Teachers Assessment * (50%)	
BDNS 302	THEORY+ST UDIO	INTERIOR MATERIALS AND CONSTRUCTION-II	2		1	3	60	20	20	60	40	200

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

MODULE 4-Woodworking Techniques for Product Design

- - Joining and nailing techniques
- - Scope for different size product manufacturing
- - Construction techniques for wooden objects
- - Material selection and handling

10 HRS

MODULE 5 - Materials and Finishes

- - Paints (enamels, distempers, plastic emulsions, cement-based)
- - Properties, uses, and applications
- - Special purpose paints (bituminous, luminous, fire retardant, resisting)
- - Clear coatings (varnishes, lacquer, shellac, wax polish)
- - Defects in painting and surface preparation.

11 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)

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



Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNS 303 FURNITURE DESIGN -I

			1	EACHII EME/W				EX	XAMINATION S	СНЕМЕ		TOTAL
						So.		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code			L	Т	S	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS303	STUDIO	Furniture Design I			3	3				90	60	150

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

Course Educational Objectives (CEOs):

The objective is to equip students with the knowledge of historical design styles, ergonomic principles and technical skills in furniture construction and material selection to create functional and aesthetically pleasing furniture designs.

Course Outcomes (COs):

- CO1: Analyze historical periods and design movements in furniture, from ancient civilizations to post-modern influences, to understand their impact on contemporary furniture design.
- CO2: Apply anthropometric standards and ergonomic principles to design user-friendly and functional furniture for various needs, including specialized furniture for physically challenged individuals.
- CO3: Develop proficiency in furniture construction techniques, including wooden joinery methods, material selection, and appropriate finishes, to create durable and aesthetically pleasing furniture.

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



BDNS 303 FURNITURE DSIGN -I

			1	EACHII EME/W				EX	XAMINATION S	СНЕМЕ		
						ø		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code			L	Т	s	CREDIT	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS303	STUDIO	Furniture Design I			3	3				90	60	150

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

Module 1: History of Furniture Design

9 HRS

- Greek, Roman, and Egyptian periods
- Romanesque and Gothic styles
- Renaissance and Industrial Revolution influences
- Study of post-modern furniture design

Module 2: Anthropometric Standards

9 HRS

- Standards for basic furniture: Sofa, settee, couch, bunk beds, study tables, cupboards, shelves, cot, bedside lockers, wardrobes
- Design considerations for furniture for the physically challenged

Module 3: Finishes and Wooden Joinery

9 HRS

- Furniture joinery techniques: Screw joinery, nail joinery, mortise & tenon joints, dovetail joints, dowel joints, edge joints
- Materials and finishes: Wood, glass, metal, plastics, upholstery
- Fabrication details and color theory application in furniture design

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya,Indore

Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore

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



			1	EACHII EME/W	-			EX	XAMINATION S	СНЕМЕ		
						ø		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code			L	Т	S	CREDIT	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS3 03	STUDIO	Furniture Design 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 4: Project - Residential Furniture

10 HRS

- Furniture layout for residences
- Built-in furniture vs. movable furniture
- Systems furniture and specially designed furniture
- Modular, knockdown, and economy furniture
- Seating, sleeping, storage, and children's furniture

Module 5: Project - Office Furniture

11 HRS

- File cabinets, workstations, and bookshelves
- Storage solutions and movable office furniture
- Waiting zone seating and conference tables
- Specialized office furniture designs

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



BDNS 304 BASIC OF INTERIOR SERVICES

			1	EACHII EME/W				E	XAMINATION S	СНЕМЕ		
	G					ş		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code			L	Т	S	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS304	STUDIO +TH	Basics of Interior Service	2		1	3	60	20	20		50	150

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

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.

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



BDNS 304 BASIC OF INTERIOR SERVICES

			1	EACHII EME/W				E	XAMINATION S	СНЕМЕ		
						ø	THEORY			PRAG	CTICAL	TOTAL MARKS
Course Code	Code		L	Т	s	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS304	STUDIO +TH	BASICS OF INTERIOR SERVICE	2		1	3	60	20	20		50	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: Introduction to Interior Services

9HRS

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

Module 2: Plumbing Systems

9HRS

- 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

9HRS

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



BDNS 304 BASIC OF INTERIOR SERVICES

			1	EACHII EME/W				E	XAMINATION S	СНЕМЕ		
						ø	THEORY			PRAG	CTICAL	TOTAL MARKS
Course Code	Code		L	Т	s	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS304	STUDIO +TH	BASICS OF INTERIOR SERVICE	2		1	3	60	20	20		50	150

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

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

11HRS

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

Module 5: Lighting Design

10HRS

- 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.

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya,Indore

Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore

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



Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNS 305 COMPUTER APPLICATION-I

			TEACHING SCHEME/WEEK									
		Course Name		Т	s	S.	THEORY PRACTICA					TOTAL MARKS
	Course Typology		L			CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS305	STUDIO	COMPUTER APPLICATION -I			2	2				60	40	100

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

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.

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



			TEACHING SCHEME/WEEK				EXAMINATION SCHEME						
						×		THEOR	Y	PRAC	TOTAL MARKS		
Course Code	Course Typology	Course Name	L	Т	s	CREDIT	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)		
BDNS305	STUDIO	COMPUTER APPLICATION -I			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 AutoCAD 3D and Basic Modeling. 06 HRS

Module 2: Advanced 3D Modeling Techniques. 06 HRS

Module 3: Materials and Rendering. 06 HRS

Module 4: Annotation and Presentation. 06 HRS

Module 5: Presentation and Final Project. 08 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



Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNS 306 WORKSHOP

			TEACHING SCHEME/WEEK									
						S.	THEORY PRACTICAL					TOTAL MARKS
Course Code	Course Typology	Course Name	L	Т	S	CREDIT	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS306	STUDIO	WORKSHOP			2	2					100	100

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

Module 1: Introduction to Materials and Prototyping

06 HRS

- Introduction to Materials (2 hours) Familiarize students with different types of materials (wood, metal, plastic, fabrics, paper, and alternative materials such as bamboo, jute, etc.).
- Overview of material properties (strength, flexibility, texture, etc.).
- Material selection based on design context (sustainability, cost, aesthetics)
- Case studies of products showcasing innovative material use.
- Hands-on exploration: Physically interact with materials, sketch ideas on how to use them creatively.
- Introduction to Prototyping (3 hours)
- Provide an understanding of prototyping techniques and tools.
- Prototyping techniques (block modeling, quick form, detailed modeling).
- Tools and machinery (cutting, shaping, assembling tools).
- Importance of rapid prototyping in design iteration.

Activity:

Group assignment: Create quick prototypes using basic materials like paper, cardboard, or foam boards.

Chairperson	Chairperson	Controller of Examination	Registrar
Board of Studies	Faculty of Studies	Shri Vaishnav Vidyapeeth	Shri Vaishnav Vidyapeeth
Shri Vaishnav Vidyapeeth	Shri Vaishnav Vidyapeeth	Vishwavidyalaya,Indore	Vishwavidyalaya,Indore
Vishwavidyalaya,Indore	Vishwavidyalaya,Indore		

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



BDNS 306 WORKSHOP

			TEACHING SCHEME/WEEK					E	СНЕМЕ			
						\mathbf{z}	THEORY PRACTICAL					TOTAL MARKS
Course Code	Course Typology	Course Name	L	Т	S	CREDIT	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS306	STUDIO	WORKSHOP			2	2					100	100

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

Module 2: Material-Based Design and Prototyping

06 HRS

- Design Ideation and Conceptualization
- Guide students through the design process using their chosen materials.
- Brainstorming sessions: How to adapt material properties into creative design solutions.
- Concept sketches and basic models (using paper, clay, or wire to quickly develop ideas).

Activity:

• Individual work: Create sketches and miniature models for a product design (furniture, product, or installation) using the selected material.

Prototyping and Building Techniques

06 HRS

- Build hands-on prototyping skills through real-world practice.
- Overview of different building techniques for various materials (e.g., wooden joinery, metal fastening, textile stitching).
- Safety instructions and correct use of tools.

Activity:

Workshop: Build functional prototypes using the chosen materials (students work
individually or in teams). Focus on craftsmanship, precision, and functional testing of the
prototype.

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



BDNS 306 WORKSHOP

			TEACHING SCHEME/WEEK									
						\mathbf{z}	THEORY PRACTICAL					TOTAL MARKS
Course Code	Course Typology	Course Name	L	Т	S	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS306	STUDIO	WORKSHOP			2	2					100	100

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

Module 3: Refining and Presenting Prototypes

06 HRS

Finishing Techniques

- Introduce finishing methods to enhance the quality and appearance of the prototype.
- Techniques such as sanding, painting, varnishing, or coating based on material type.
- How finishes affect durability and aesthetics.

Module 4: Prototype Testing and Presentation

08 HRS

- Evaluate prototypes and provide constructive feedback.
- Peer review: Students present their prototypes, discuss challenges faced during the building process and explain design choices.
- Testing: Functional testing of prototypes (if applicable).

Activity:

Presentation: Students showcase their prototypes and discuss the design process, material choice, and application of theories.

• REFERENCE BOOKS:

- 1. *Materials and Design: The Art and Science of Material Selection in Product Design* by Michael F. Ashby and Kara Johnson
- 2. Prototyping and Model making for Product Design by Bjarki Hallgrimsson

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



3. Making It: Manufacturing Techniques for Product Design by Chris Lefteri

Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNS 307 ELECTIVE-III

				TEACHING SCHEME/WEEK				EX	XAMINATION S	СНЕМЕ		
						ø		THEOR	Y	PRAC	CTICAL	TOTAL MARKS
Course Code	Course Typology	Course Name	L	Т	S	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS307(1)		Carpentry Workshop			1	1					50	50
BDNS307(2)	STUDIO	Interior Model Making										
BDNS307(3)		Interior Sketching										

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 elective course provides students with hands-on experience in interior design and carpentry, focusing on practical skills and creative expression.

Course Outcomes (COs):

- CO1- 1. Demonstrate technical skills and craftsmanship in their chosen elective.
- CO2-Apply creative problem-solving and critical thinking to design and construction challenges.
- CO3-Communicate design concepts and ideas effectively through various mediums (sketches, models, prototypes).

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya,Indore

Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore



BDNS 307 ELECTIVE-III

			TEACHING SCHEME/WEEK			EX	XAMINATION S	СНЕМЕ				
						<u>s</u>	THEORY			PRAC	TOTAL MARKS	
Course Code	Course Typology	Course Name	L	Т	S	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS307(1)		Carpentry Workshop			1	1					50	50
BDNS307(2)	STUDIO	Interior Model Making										
BDNS307(3)		Interior Sketching										_

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.

Elective 307(1): Carpentry Workshop (16 Hours)

Module 01 - Carpentry tools and safety

Module 02 - Measuring and cutting techniques

Module 03 - Joinery methods

Module 04 - Wood finishing and assembly

Module 05 - Project design and execution

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson Faculty of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore



BDNS 307 ELECTIVE-III

			1	TEACHING SCHEME/WEEK								
						S	THEORY			PRAC	TOTAL MARKS	
Course Code	Course Typology	Course Name	L	Т	S	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS307(1)		Carpentry Workshop			1	1					50	50
BDNS307(2)	STUDIO	Interior Model Making										
BDNS307(3)		Interior Sketching										

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.

Elective 307(2): Interior Model Making (16 Hours)

- Prerequisites: Basic understanding of interior design principles
- Topics:
 - Model making materials and techniques
 - Scale and proportion
 - Texturing and color application
 - Lighting design and effects
 - Model assembly and presentation

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya,Indore

Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore



BDNS 307 ELECTIVE-III

			TEACHING SCHEME/WEEK			E	XAMINATION S	СНЕМЕ				
						Š	THEORY			PRAC	TOTAL MARKS	
Course Code	Course Typology	Course Name	L	T	s	CREDITS	End Sem University Exam (50% or 40%)	Two Term Exam (20%)	Teachers Assessment* (20%or 30%)	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS307(1)		Carpentry Workshop			1	1					50	50
BDNS307(2)	STUDIO	Interior Model Making										
BDNS307(3)		Interior Sketching										

 $\textbf{Legends: L-Lecture; T-Tutorial/Teacher Guided Student Activity; P-Practical; \quad C-Credit;}$

Elective 307(3): Interior Sketching (16 Hours)

- Prerequisites: Basic drawing skills

- Topics:

- Interior sketching techniques
- Perspective and spatial relationships
- Medium exploration (pencils, ink, watercolors)
- Sketching furniture and decor
- Capturing lighting and texture

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya,Indore

Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore

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