



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNS201 - BASIC DESIGN - II

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	S	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNS-201	BASIC DESIGN - II				270	180			8	8

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):

CEO 1	The Objective of the course is to give an emphasis on planning with analytical thinking, conceptualization , understanding Of the requirements and then to arrive on a solution based on design principles having connection between physical and visual environment .
CEO 2	The Objective of Interior design studio 1to be professionally competent to: · Identify, define and describe relevant aspects of a design problem

Course Outcomes (COs):

CO 1	After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes. The students will be able to Design application of space with integrating various elements of the space design.
CO 2	Demonstrate critical thinking as they identify, analyze, and solve interior architecture and design problems through working of interior design studio.
CO3	Students will successfully compile and evaluate data in an organized format. Students will successfully utilize and integrate proper tools and materials.

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		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNS-201	BASIC DESIGN - II				270	180			8	8

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SYLLABUS

UNIT I - BASIC ANTHROPOMETRICS :- Average measurements of human body in different postures – its proportion and graphic representation, application in the design of simple household and furniture. Role of mannequins in defining spatial parameter of design. Basic human functions and their implications for spatial planning. Minimum and optimum areas for various functions. Preparing user profile, bubble and circulation diagrams . **25 HRS**

UNIT II- INTRODUCTION TO DESIGN METHODOLOGY: - Detailed study of spaces such as living, dining, bedrooms, kitchen, toilet etc. including the furniture layout, circulation, clearances, lighting and ventilation, etc. Case study of existing house and analysis of the spaces. **25 HRS**

UNIT III- Drafting of Different Types of Furniture and Sizes: This module covers the technical drafting of **residential, office, and custom-built furniture** with standard dimensions. Students will create detailed plans, elevations and sections while considering ergonomics. **25 HRS**

UNIT IV-EXPLAIN PROCESS- Explain process of design& Exercises in analysis of design – Creation of Spaces through analysis & synthesis. Analysis of purpose and functional space planning materials & methods of construction. **26 HRS**

UNIT V-Project documentation- A detailed design concept, process sketches, and final drawings illustrating the project's evolution. It should cover technical specifications. The report must conclude with reflections on challenges, solutions, and final outcomes. **27 HRS**

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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.

Suggested Books References:

- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992
- Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
- Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.
- Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptill, 1979.
- Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

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B. Des in Interior Design

BDNS 202 – INTERIOR MATERIALS AND CONSTRUCTION-I

Course Code	Course Typology	Course Name	TEACHING SCHEME/WE EK			CREDITS	EXAMINATION SCHEME					
			L	T	S		THEORY			PRACTICAL		TOTAL MARKS
							End Sem University Exam (50%)	Two Term Exam (20%)	Teachers Assessment * (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment * (50%)	
BDNS202	THEORY+STUDIO	INTERIOR MATERIALS AND CONSTRUCTION-I	2		2	4	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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							End Sem University Exam (50%)	Two Term Exam (20%)	Teachers Assessment * (20% or 30%)	End Sem University Exam (50%)	Teachers Assessment * (50%)	
BDNS202	THEORY+STUDIO	INTERIOR MATERIALS AND CONSTRUCTION-I	2		2	4	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-INTRODUCTION TO INTERIOR CONSTRUCTION Overview of Interior Construction, Structural Systems and Elements, Construction Documentation-Types of construction drawings (plans, elevations, sections) Reading and interpreting construction documents, Masonry and Concrete. **13 HRS**

MODULE 2-STONES

Stones : Igneous, metamorphic & sedimentary – classifications, types, properties, availability, applications. **13 HRS**

MODULE 3-FINISHES & STAIRCASE

Wall finishes, wall plastering, chamfered corners, dado, wall cladding, fixing of doors & windows, etc
Details of floor finishes : tiling/ stone flooring, wooden flooring, access flooring Plans, sections & elevations of staircases : Types of staircase, different materials – RCC, wood, steel staircase, etc. **12 HRS**

MODULE 4-PLASTIC

Plastics – Types, thermosetting and thermo plastics, resins, common types of moldings, fabrication of plastics, polymerization and condensation. Plastic coatings reinforced plastic, plastic laminates – properties, uses and applications. **13 HRS**

MODULE 5 - PARTITIONS AND FALSE CEILING

Partition walls : all types of partitions – full height, half & dwarf, double skinned, single skinned, frameless glass, etc., Wall paneling : plywood, leather, acoustic boards, etc., False Ceiling : all types, with full system, insulation, acoustical, etc. **13 HRS**

REFERENCE BOOKS:

1. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
2. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
3. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.

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B. Des in Interior Design

BDNS 203 - HISTORY OF INTERIOR DESIGN

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%)	Total Marks	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS203	THEORY	HISTORY OF INTERIOR DESIGN			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):

Art and culture of different regions in different periods sets new theories in design, the purpose of the subject is to study the trends in Modern movement in design in the later part of the 20th century.

Course Outcomes (COs):

CO1- Understand the evolution of interior design from ancient times to the present, focusing on cultural, social, and technological influences.

CO2- Identify and analyze key interior design movements and styles, recognizing their defining characteristics and motifs.

CO3- Examine the impact of historical contexts on interior design developments and how historical events shaped design philosophies.

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							End Sem University Exam (50%)	Two Term Exam (20%)	Total Marks	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS203	THEORY	HISTORY OF INTERIOR DESIGN	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.

Syllabus

MODULE 1 - PURPOSE AND RELEVANCE OF ART DEVELOPMENT

A survey of history of art forms: pre historic times to present times: changing nature of art through time in terms of content: form and material. **6 HRS**

MODULE 2 - EXPLORATION OF ARTFORMS

Study of traditional and contemporary art forms – painting, sculpture, architecture, decorative arts, design arts, digital art. Relationship between art and design from the earliest time. **6 HRS**

MODULE 3 – STUDY OF ORNAMENTS & ACCESSORIES

Ornaments & Accessories in Interior Design. Different types of Ornamentation & Accessories in the interiors. Study and evaluation of artifacts, historic examples and their applicability. **6 HRS**

MODULE 4 – INTRODUCTION TO HERITAGE INTERIORS

Heritage Interiors Buddhist, Islamic and Hindu: Evolution of Interiors in different regions of India with examples. Heritage and identity at different spatial scales. **6 HRS**

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							End Sem University Exam (50%)	Two Term Exam (20%)	Total Marks	End Sem University Exam (50%)	Teachers Assessment* (50%)	
BDNS203	THEORY	HISTORY OF INTERIOR DESIGN	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 5 – NEW DIRECTIONS IN ART

Context for new directions in art in the late 19th and early 20th century - Impressionism - post Impressionism – Fauvism- Expressionism- Cubism –Dadaism – Surrealism - abstract art – Futurism - Constructivism – Surrealism -- De Stijl -Abstract Expressionism - Pop art - Op art- new forms and media of art. Study of famous and influential Artists, Craftsmen and people who pioneered innovations in their own fields and their influence on design and other fields. Works of Van Gogh, Dali, William Morris, Picasso, Da Vinci.

8 HRS

SUGGESTED REFERENCE BOOKS:

1. Henry Wilson, India: Decoration, Interiors, Design, Watson Guptill, First American edition, 2001
2. Michael Freeman, India Modern, Periplus editions, 2005
3. Sunil Sethi, Angelika Taschen, Indian Interiors, TASCHEN America Ltd; 25th ed. edition, 2009
4. Henry Wilson, India: Decoration, Interiors, Design, Watson Guptill, First American edition, 2001
5. Michael Freeman, India Modern, Periplus editions, 2005
6. Sunil Sethi, Angelika Taschen, Indian Interiors, TASCHEN America Ltd; 25th ed. edition, 2009

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B. Des in Interior Design

BDNS204 ADVANCED VISUALIZATION AND REPRESENTATION

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%)	
BDNS204	STUDIO	ADVANCED VISUALIZATION AND REPRESENTATION			4	4				120	80	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):

CEO1: To make student efficient in technical drawing and detailing for the purpose of execution.

Course Outcomes (COs):

CO1: Study of reference planes, projectors, orthographic projections of objects in different positions & method of drawing the same.

CO2: Angular Projections: - Isometric and Axonometric projects. Study of methods of drawing parallel perspective. Various examples on blocking, height reductions. Learning methods of drawing angular perspectives.

CO3: Development of solids with voids, Interpenetration of solids, solids & voids, development of surface & section at a junction.

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BDNS204 ADVANCED VISUALIZATION AND REPRESENTATION

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%)	
BDNS204	STUDIO	ADVANCED VISUALIZATION AND REPRESENTATION			4	4				120	80	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.

UNIT I Introduction to Complex Isometric views for curved and spherical objects, detailed Isometric views for spaces. 12 HRS

UNIT II Measured drawing -Preparation of Measured drawings for a typical single storey built structure with complete detailing in plan sections and elevations. Existing product drawings analysis and drafting techniques. 12 HRS

UNIT III Perspective Principals of perspectives , one point , two point , three point perspective techniques. Perspective drawings of different scale projects with interior detailing. 14 HRS

UNIT – IV Projection of Solids - Introduction, Classification of solids, Recommended method of labeling, Orientation of solids, Drawing projections of a solid at different orientation of its axis, Identify visible and hidden lines. Principals of shades and shadows, drawing techniques. 14 HRS

UNIT V : Principals of shades and shadows, drawing techniques. 12 HRS

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BDNS204 ADVANCED VISUALIZATION AND REPRESENTATION

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%)	
BDNS204	STUDIO	ADVANCED VISUALIZATION AND REPRESENTATION			4	4				120	80	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.

Reference Books

- Engineering Drawing by N.D. Bhatt
- Rendering with Pen and Ink by Robert W. Gill
- Perspective Drawing Handbook by Joseph D'Amelio
- Architectural Graphics by Francis D.K. Ching
- Shades and Shadows in Architecture by Henry McGoodwin

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BDNS 205 DIGITAL ART-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%)		
BDNS205	STUDIO	DIGITAL ART -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):

To provide the student of Design a foundation in the techniques of drafting using computer as a tool.

Course Outcomes (COs):

CO1-To help the student understand the technology of computer and its terminology.

CO2To enable the student to understand the applications of the software and graphic system.

SYLLABUS

MODULE 1 -BASIC OUT LINE

Introduction to the menu, starting drawings from scratch. Creating and using templates- starting drawings with setup wizards. Saving and closing a file. **10 HRS**

MODULE 2 -AXIS POINTS

Using co-ordinate systems – The UCS. Working with Cartesian and polar coordinate systems. Using displays with shortcuts. **10 HRS**

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			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%)	
BDNS205	STUDIO	DIGITAL ART -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 3 - UNITS, LIMITS AND LAYERS

Setting up the drawing environment – setting the paper size, setting units, grid limits, drawing limits, snap controls. Use of paper space and model space. Basic commands dealing with drawing properties: Layer control, change properties, line weight control, etc. **10 HRS**

MODULE 4 - DIMENSIONS, CALCULATIONS AND GROUPING

Inquiry methods: Using data base information for objects, calculating distance, angle, areas etc. Dimensioning commands and blocks: Dimensioning the objects in linear, angular fashions along with quick time dimensioning etc. Creating and working with blocks, creating symbols, use of blocks in creating a layout, of a residential area- one exercise to be done as lab assignment. **10 HRS**

MODULE 5 – PLOTTING Setting up plotters and printers. Plot styles and configurations.

Plotting to PDF and other formats. **8 HRS**

Suggested Reference Books

1. Auto Desk, 3DS MAX comprehensive tutorial resources Wiley 2014. Auto Desk, 3DS MAX comprehensive tutorial resources Wiley 2014.
2. Sketch up for interior Design . 3D visualising designing & space planning by Lidya Sloan, Wiley Publisher – 2014.
3. Auto Desk Auto cad 2017 for Architecture, Sybex , 2016.

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BDNS206–WORKSHOP

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%)	
BDNS206	STUDIO	WORKSHOP			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):

CO1 Hands-On Skills Development: Gain practical, hands-on experience in specific techniques or methodologies relevant to the workshop theme.

CO2 Problem-Solving Abilities: Develop the ability to solve real-world challenges or tasks related to the workshop topic through guided exercises.

CO3 Application Readiness: Acquire knowledge and skills that can be immediately applied in professional or personal projects within the workshop's focus area.

MODULE 1 - ANTHROPOMETRY & ERGONOMICS

Use of anthropometry, ergonomics, and handling of space and application of knowledge gained from other subjects, and design a piece of furniture. **10 HRS**

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BDNS206	STUDIO	WORKSHOP			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 2 -DESIGN STRATEGY

Design approach with limited constraints inherent in furniture design. Evolving the strategy of design with integration of technical complexities and lifestyle influences. Development of the design of a furniture piece to specific interiors and prevailing trends. Broad based approach towards innovative design and application to multi products and multi materials in manufacturing interior products and lifestyle accessories. **10 HRS**

MODULE 3-SCALES

Making of the furniture in various scales – a scaled model, template. **10 HRS**

MODULE 4 -PROTOTYPE MAKING

Assignment: Individual assignment: To design & execute a piece of furniture with wood or metal or combination of materials. Drawings, details, templates and prototype of the same piece of furniture with detailed study. **10 HRS**

MODULE 5 - Documentation is required for submission to the jury along with a report. **8 HRS**

TEXT BOOKS

1. Laura Slack, What is product Design? Roto Vision publishers, 2006
2. Treena Crochet and David Vleck, Designer's Guide to Decorative Accessories, Prentice Hall, 1st edition, 2008.,
3. Michael Ashby, Kara Johnson, Materials and Design: The Art and Science of material selection in product design, Butter Worth Heinemann, 1st edition, 2002.

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



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

BDNS 207 –ELECTIVE 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%)	
BDNS207 (1)		ELECTIVE ANTHROPOMETRICS & ERGONOMICS			2	2					150	150
BDNS207 (2)		RENDERING TECHNIQUES			2	2					150	150
BDNS207 (3)		BEST OUT OF WASTE			2	2					150	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.

ANTHROPOMETRICS & ERGONOMICS -This elective course selection offers a diverse range of topics catering to the creative and practical aspects of design. "Anthropometrics & Ergonomics" delves into the foundational principles crucial for designing spaces and products that cater to human dimensions and behaviors.

RENDERING TECHNIQUES -Students will explore measurement techniques, ergonomic design guidelines, and user-centered approaches, preparing them to apply these principles in real-world design scenarios. In "Rendering Techniques," students will master the art of visual communication through both digital and traditional rendering methods. And watercolor techniques for architectural illustrations.

BEST OUT OF WASTE- introduces sustainable design practices by focusing on creative reuse and upcycling of materials. Students will engage in hands-on workshops to transform discarded materials into innovative and functional products, fostering a deeper understanding of environmental responsibility and ethical design practices. Each elective not only enhances technical skills but also encourages creativity and critical thinking essential for future design professionals.

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