

Shri Vaishnav institute of Architecture

Choice Based Credit System (CBCS) Scheme in the light of NEP-2020

B.Des. Product Design

			TEACHING & EVALUATION SCHEME								
	Comme		THEORY		STUDIO		L	Т	S	CREDIT S	
	Course Typology	COURSE NAME	END SEM University Exam	- ×	Teachers Assessment *	END SEM University Exam	Teachers Assessment *				
BDNP - 401 N	STUDIO	DESIGN STUDIO - III	0	0	0	240	160	0	0	8	8

BDNP - 401 N DESIGN STUDIO - III

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; 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	Develop innovative product design solutions that meet user needs and market demands.
	Apply design thinking principles and methodologies to complex design problems

Course Outcomes (COs):

CO-1	Design innovative single-component products that demonstrate creativity, functionality, and usability
CO- 2	Apply design principles, such as aesthetics, ergonomics, and sustainability, to product design
CO- 3	Develop and present design concepts, prototypes, and specifications to stakeholders.

Chairperson	Chairperson	Controller of Examination	Registrar	Vice Chancellor
Boards of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Faculties of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore



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B.Des. Product Design

COURSE Course CODE Typology			TEACHING & EVALUATION SCHEME								
	Course		THEORY STUDIO		DIO	L	Т	S	CREDIT S		
		COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Exam	Teachers Assessment *				
BDNP – 401 N	STUDIO	DESIGN STUDIO - III	0	0	0	240	160	0	0	8	8

BDNP - 401 N DESIGN STUDIO - III

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; 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 1	DESIGN THINKING AND PROBLEM DEFINATION	24 HRS
	- Introduction to design thinking and problem definition	
	- Understanding user needs and market demands	
	- Defining design problems and opportunities	
UNIT 2	IDEATION AND CONCEPT DEVELOPMENT	24 HRS
	- Introduction to ideation techniques and concept development	
	- Generating and evaluating design concepts	
	- Developing design briefs and specifications	
UNIT 3	ERGONOMICS AND AESTHETICS	24 HRS
	- Understanding how to combine ergonomics and aesthetics to create user-	
	centered and visually appealing designs	
	- Applying ergo-aesthetic principles to product design	

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COURSE Course CODE Typology			TEACHING & EVALUATION SCHEME								
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	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNP - 401 N	STUDIO	DESIGN STUDIO - III	0	0	0	240	160	0	0	8	8

BDNP - 401 N DESIGN STUDIO - III

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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 4	FORM DEVELOPMENT	24 HRS
	- Applying innovative single component design principles to a product design	
	project	
	- Creating a design concept and prototype	
	- Presenting design concept and prototype	
UNIT 5	DESIGN COMMUNICATION	24 HRS
	- Introduction to design communication	
	- Understanding design presentation techniques	
	- Creating effective design presentations	

REFERENCES:

- "Design Thinking" by Nigel Cross
- "The Design of Everyday Things" by Don Norman
- "Product Design" by Jonathan Feinberg
- "Designing for Emotion" by Aarron Walter
- "Sustainable Design: A Critical Guide" by Stuart Walker

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COURSE CODE CODE			TEACHING & EVALUATION SCHEME								
	G		THEORY			STU	L	Т	S	CREDIT S	
	Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 402 N	STUDIO + THERO Y	MATERIAL & PROCESSES - III	60	20	20	0	50	2	0	2	4

BDNP - 402 N MATERIAL & PROCESSES - III

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio ; 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	Identify and describe the properties of tensile materials. Explain the applications of tensile	
	materials in product design. Assess the suitability of materials and processes for product	
	design considering factors such as sustainability, manufacturability, and user experience.	

Course Outcomes (COs):

1

CO-1	Identify and Describe the Properties of Materials
CO- 2	Explain the Principles of Material Selection for Product Design
CO- 3	Compare and Contrast Different Manufacturing Processes for Product Design

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CODE			END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP – 402 N	STUDIO + THERO Y	MATERIAL & PROCESSES - III	60	20	20	0	50	2	0	2	4

BDNP - 402 N MATERIAL & PROCESSES - III

 $Legends: \ L \ - \ Lecture; \ T \ - \ Tutorial/Teacher \ Guided \ Student \ Activity; \ S \ - \ Studio \ ; \ C \ - \ Credit;$

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

UNIT 1	INTRODUCTION	12HRS
	- Overview of materials and processes in product design.	
	- Properties and applications of tensile materials	
UNIT 2	METALS AND ALLOYS	12 HRS
	- Properties and applications of metals (e.g., strength, ductility, corrosion	
	resistance)	
	- Introduction to metal alloys and their applications.	
UNIT 3	POLYMERS AND COMPOSITES	12 HRS
	- Properties and applications of polymers (e.g., plastics, elastomers)	
	- Introduction to composite materials and their applications	

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CODE			END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Fyem	Teachers Assessment *				
BDNP – 402 N	STUDIO + THERO Y	MATERIAL & PROCESSES - III	60	20	20	0	50	2	0	2	4

BDNP - 402 N MATERIAL & PROCESSES - III

 $\label{eq:Legends: L-Lecture; T-Tutorial/Teacher Guided Student Activity; S-Studio ; C-Credit;$

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

UNIT 4	MANUFACTURING PROCESSES	12 HRS
	 Principles of different manufacturing processes (e.g. machining, 3D printing) Comparison of advantages and disadvantages of different manufacturing processes 	
UNIT 5	DETAILING OF DESIGN	12 HRS
	 Factors influencing material selection for product design (e.g., sustainability, manufacturability, user experience) Case studies of material selection for product design 	

- "Materials: Engineering, Science, Processing and Design" by Michael Ashby and David Jones
- "Product Design and Development" by Karl T. Ulrich and Steven D. Eppinger
- "Materials Selection in Mechanical Design" by Michael F. Ashby

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	Faculties of Studies	Faculties of Studies Shri Vaishnav Vidyapeeth Shri Vaishnav Vidyapeeth	Faculties of Studies Shri Vaishnav Vidyapeeth Shri Vaishnav Vidyapeeth Shri Vaishnav Vidyapeeth



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COURSE	Course		Т	HEORY	7	STU	DIO	L	Т	S	CREDIT S
CODE	Course Typology		END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 403 N	LAB	DIGITAL STUDIO - III	0	0	0	60	40	0	2	2	4

BDNP - 403 N DIGITAL STUDIO - III

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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 location of the free demonstration of the fact in the start of the sheet end of the start of							
CEO 1	Understand the fundamentals of digital design tools and techniques, with a focus on							
	Grasshopper/Rhino. Students will learn to create complex shapes and forms, and develop							
	skills in parametric design, scripting, and visualization.							

Course Outcomes (COs):

CO-1	Understand the Basics of Grasshopper/Rhino
CO- 2	Apply Parametric Design Techniques to Product Design
CO- 3	Develop Skills in Visualization and Rendering

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COURSE	Course		ТН	IEORY	,	STU	DIO	L	Т	S	CREDIT S
CODE	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University F xam	Teachers Assessment *				
BDNP - 403 N	LAB	DIGITAL STUDIO - III	0	0	0	60	40	0	2	2	4

BDNP - 403 N DIGITAL STUDIO - III

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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 1	INTRODUCTION TO GRASSHOPPER/ RHINO	6 HRS
	- Overview of Grasshopper/Rhino and their application in product design	
	- Basic tools and interface of Grasshopper/Rhino	
UNIT 2	PARAMETRIC DESIGN PRINCIPLES	6 HRS
	- Understanding parametric design and its application in product design	
	- Creating complex shapes and forms using parametric design techniques	
UNIT 3	SCRIPTING AND VISUALIZATION TECHNIQUES	6 HRS
	- Applying scripting and visualization techniques to enhance design output	
	- Developing skills in creating digital prototypes of products	
UNIT 4	DIGITAL PROTOTYPING AND VISUALIZATION	6 HRS
	- Creating digital prototypes of products using Grasshopper/Rhino	
	- Applying materials, textures, and lighting to enhance visualization	

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COURSE	Course		TH	EORY		STU	DIO	L	Т	S	CREDIT S
CODE	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam	J 2 - X	END SEM University F vam	Teachers Assessment *				
BDNP - 403 N	LAB	DIGITAL STUDIO - III	0	0	0	60	40	0	2	2	4

BDNP - 403 N DIGITAL STUDIO - III

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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 5	RENDERING AND ANIMATION TECHNIQUES	6 HRS
	- Developing skills in rendering and animation for design communication	
	- Creating high-quality images and animations for design presentation	

- "Grasshopper Primer" by Andrew Payne
- "Rhino 6 for Windows and Mac" by Robert McNeel & Associates
- "Parametric Design with Grasshopper" by Arthur Mamou-Mani
- "Digital Design and Manufacturing" by David Rosen
- "Product Design and Development" by Karl T. Ulrich and Steven D. Eppinger

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Vishwavidyalaya, Indore	Vishwavidyalaya, Indore	Vishwavidyalaya, Indore	Vishwavidyalaya, Indore	Vishwavidyalaya, Indore



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				TE	CACHIN	G & EV	ALUAT	ION S	SCHE	ME	
COURSE	Course	Course	Т	HEORY	7	STU	DIO	L	Т	S	CREDIT S
CODE	Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 404 N	THEOR Y	USER PSYCHOLOGY	60	20	20	0	0	3	0	0	3

BDNP – 404 N USER PSYCHOLOGY

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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	Analyze the Psychological Factors Influencing User Behavior and applying User-Centered
	Design Principles to Product Design.

Course Outcomes (COs):

CO-1	Understand the Theories of Human Behavior and Motivation.
CO- 2	Analyze the Role of Emotions in User Experience
CO- 3	Understand the Principles of Human-Centered Design

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COURSE	SE Course	Т	HEORY	7	STU	DIO	L	Т	S	CREDIT S	
CODE	Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 404 N	THEOR Y	USER PSYCHOLOGY	60	20	20	0	0	3	0	0	3

BDNP – 404 N USER PSYCHOLOGY

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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 1	INTRODUCTION TO USER PSYCHOLOGY AND PRODUCT	9 HRS
	DESIGN	
	- Overview of user psychology and its importance in product design	
	- Introduction to the major theories of human behavior and motivation	
UNIT 2	THEORIES OF HUMAN BEHAVIOUR	9 HRS
	- In-depth analysis of the major theories of human behavior and motivation	
	- Implications of these theories for product design.	
UNIT 3	EMOTIONAL DESIGN AND USER EXPERIENCE	9 HRS
	- The role of emotions in user experience and decision-making	
	- Emotional design principles and their application in product design	
UNIT 4	HUMAN-CENTERED DESIGN PRINCIPLES	9 HRS
	- Principles of human-centered design and its application in product design	
	- Case studies of successful human-centered design in product design	

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COURSE	URSE Course	Т	HEORY	7	STU	DIO	L	Т	S	CREDIT S					
CODE	Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *								
BDNP - 404 N	THEOR Y	USER PSYCHOLOGY	60	20	20	0	0	3	0	0	3				

BDNP – 404 N USER PSYCHOLOGY

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio ; 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 5	USER-CENTERED DESIGN AND PRODUCT DEVELOPMENT	9 HRS
	- The role of user-centered design in product development	
	- Case studies of successful user-centered design in product development	

- "The Design of Everyday Things" by Don Norman
- "Emotional Design: Why We Love (or Hate) Everyday Things" by Don Norman
- "Human-Centered Design" by IDEO
- "The Psychology of Everyday Things" by Don Norman
- "User Experience (UX) Design" by Jesse James Garrett

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B.Des. Product Design

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COUDSE	Course		Т	HEORY	7	STU	DIO	L	Т	S	CREDIT S
COURSE CODE	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 405 N	STUDIO	BRAND IDENTITY	60	20	20	60	40	2	0	2	4

BDNP - 405 N BRAND IDENTITY

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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	Understand the principles of brand identity and its importance in product design. Analyze
	successful brand identities and their application in product design. Create effective brand
	identities that communicate a product's values, personality, and unique selling proposition.

Course Outcomes (COs):

CO-1	Understand the Principles of Branding and Identity
CO- 2	Analyze Visual Identity Systems
CO- 3	Apply Brand Identity Principles to Packaging Design for innovation to solve problems.

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B.Des. Product Design

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COUDSE	URSE Course	T	HEORY	7	STU	DIO	L	Т	S	CREDIT S	
COURSE CODE	Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 405 N	STUDIO	BRAND IDENTITY	60	20	20	60	40	2	0	2	4

BDNP – 405 N BRAND IDENTITY

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; 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 1	INTRODUCTION TO BRAND IDENTITY AND PRODUCT	24 HRS
	DESIGN	
	- Overview of brand identity and its importance in product design	
	- Principles of branding and identity	
UNIT 2	BRAND POSITIONING, PERSONALITY, AND MESSAGING	24 HRS
	- Understanding brand positioning, personality, and messaging	
	- Analyzing successful branding strategies	
UNIT 3	VISUAL IDENTITY SYSTEMS	24 HRS
	- Components of visual identity systems (e.g., logos, typography, color)	
	- Analyzing successful visual identity systems	
UNIT 4	APPLYING BRAND IDENTITY PRINCIPLES TO PACKAGING AND	24HRS
	PRODUCT DESIGN	
	- Applying brand identity principles to packaging and product design	
	- Analyzing brand identity influences packaging and product design decisions	

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CODE	Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 405 N	STUDIO	BRAND IDENTITY	60	20	20	60	40	2	0	2	4

BDNP – 405 N BRAND IDENTITY

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UNIT 5	BRAND IDENTITY STUDIO PROJECT	24HRS
	- Creating a comprehensive brand identity system for a product or service	
	- Applying brand identity principles to packaging and product design	

- "Designing Brands" by Sangallis
- "Brand Identity Essentials" by Kevin Budelmann
- "Logo Design Love" by David Airey
- "Packaging Design" by Gestalten
- "Product Design" by Jonathan Ive

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Boards of Studies	Faculties of Studies			
Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore				



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B.Des. Product Design

COURSE CODE				TE	ACHIN	G & EV	ALUAT	ION S	SCHE	ME	
	Course		Т	HEORY	7	STU	DIO	L	Т	S	CREDIT S
	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 406 N	STUDIO	ELECTIVES	0	0	0	0	50	0	0	3	3

BDNP – 406 N ELECTIVES (PRODUCT PHOTOGRAPHY)

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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	This elective course focuses on the principles and techniques of product photography,
	emphasizing the importance of visual communication in product design. Students will learn
	to create high-quality product images that showcase a product's features, benefits, and brand identity.

Course Outcomes (COs):

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CO-1	Understand the Importance of Visual Communication in Product Design
CO- 2	Develop Skills in Studio Photography and Lighting
CO- 3	Apply Post-Processing Techniques to Enhance Product Images

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			END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Even	Teachers Assessment *				
BDNP - 406 N	STUDIO	ELECTIVES	0	0	0	0	50	0	0	3	3

BDNP – 406 N ELECTIVES (PRODUCT DESIGN DOCUMENTATION)

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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	This elective course focuses on the principles and practices of creating effective design
	documentation. Students will learn to communicate design intent, specifications, and
	manufacturing requirements through clear and concise documentation.

Course Outcomes (COs):

CO-1	Understand the Importance of Documentation in Design
CO- 2	Develop Skills in Creating Design Briefs and Concept Sketches
CO- 3	Apply Documentation Best Practices for Design Portfolios and Presentations

Chairperson	Chairperson	Controller of Examination	roller of Examination Registrar	
Boards of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Faculties of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore



Shri Vaishnav institute of Architecture

Choice Based Credit System (CBCS) Scheme in the light of NEP-2020

B.Des. Product Design

			TEACHING & EVALUATION SCHEME								
	Course Typology	COURSE NAME	T	HEORY	7	STU	DIO	L	Т	S	CREDIT S
			END SEM University Exam	Two Term Exam	Teachers Assessment *	END SEM University Exam	Teachers Assessment *				
BDNP - 406 N	STUDIO	ELECTIVES	0	0	0	0	50	0	0	3	3

BDNP – 406 N ELECTIVES (DESIGN AND STORYTELLING)

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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	This elective course explores the intersection of design and storytelling, focusing on
	the ways in which designers can use narrative techniques to create compelling and
	meaningful products and experiences. Students will learn to craft stories that bring
	design concepts to life and communicate design intent to various stakeholders.

Course Outcomes (COs):

CO-1	Develop Storytelling Skills for Design Communication
CO- 2	Apply Narrative Techniques to Design Projects
CO- 3	Develop Skills in Visual Storytelling for Design

Chairperson	Chairperson	Controller of Examination	Registrar	Vice Chancellor
Boards of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Faculties of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore



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Chairperson Chairperson Controller of Examination Registrar Vice Chancellor Boards of Studies Faculties of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Vishwavidyalaya, Indore Vishwavidyalaya, Indore Vishwavidyalaya, Indore Vishwavidyalaya, Indore