

### Shri Vaishnav institute of Architecture

# Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 <u>B.Des. Product Design</u>

### BDNP - 601 - DESIGN STUDIO - 4

			TEACHING & EVALUATION SCHEME								
		THEORY			STUDIO		L	T	S	CREDITS	
COURSE CODE	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam		END SEM University Exam	Teachers Assessment*				
BDNP - 601	STUDIO	DESIGN STUDIO - 4	0	0	0	240	160	0	0	8	8

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

## **Course Educational Objectives (CEOs):**

Student will follow the process based product design. Develop a range of products.

### **Course Outcomes (COs):**

- **CO 1-** Learning on design process along with the understanding on form and its functionality.
- **CO 2-** Ability to create innovative designed range of products by following the design processes.
- **CO 3-** Understanding on how range is created of product having same category

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

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		THEORY			STUDIO		L	T	S	CREDITS	
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## **Syllabus**

**UNIT – I** DESIGN THINKING- Consolidation of fundamentals of form based design & lateral thinking will be emphasized. Considerable research will be involved to recognize the virtue of design processes. The objectives are to encourage students to extend their viewpoint beyond conventional solutions, to create a deep sense of details and materials.

### **24HRS**

**UNIT** – **II** DESIGN RESEARCH -Qualitative and qualitative research methodology, Questionnaire design, validation, repeatability testing, psychophysical scales.

### **24HRS**

UNIT - III DESIGN PROCESS- Importance of Human factors in product design; Creative techniques and tools for Concept generation, concept evaluation; Product prototyping/ model making work flow, tools and techniques for model making and prototyping, introduction to prototype driven innovation.

24HRS

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## **B.Des. Product Design**

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**UNIT – IV** DESIGN TECHNOLOGY -Design technology related to product design.

**24HRS** 

**UNIT** –**V** Prototyping using design technology.

**24HRS** 

### **References:**

- 1. Laurene Vaughan Practice based design research
- 2. Dopress Books Product Sketchbook
- 3. S.Balaram Thinking Design
- 4. Don Norman- The design of Everyday things
- 5. Roozenburg, N. F., & Eekels, J. (1995). Product design
- 6. Lidwell, W., Holden, K., & Butler, J.(2010). Universal principles of design, revised and updated
- 7. Paul Zelanski and Mary Pat Fisher Design principles

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### Shri Vaishnay institute of Architecture

# Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 B.Des. Product Design

### BDNP - 602 CRAFT BASED DESIGN PROJECT AND PROTOTYPING

		TEACHING & EVALUATION SCHEME									
			Т	THEORY		STUDIO		L	T	S	CREDITS
COURSE CODE	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BDNP - 602	STUDIO	CRAFT BASED DESIGN PROJECT AND PROTOTYPING	0	0	0	140	60	0	0	4	4

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

## **Course Educational Objectives (CEOs):**

Indigenous crafts offer a phenomenal base for drawing inspiration and developing culturally relevant designs in a contemporary context.

## **Course Outcomes (COs):**

- CO 1- To establish an understanding of our rich culture, heritage and traditions
- **CO 2-** This course aims to develop an understanding and appreciation for India's rich cultural heritage and vast repertoire of craft traditions to a designer who may choose to function as a design professional in the craft sector.

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### BDNP - 602 CRAFT BASED DESIGN PROJECT AND PROTOTYPING

			TEACHING & EVALUATION SCHEME									
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BDNP - 602	STUDIO	CRAFT BASED DESIGN PROJECT AND PROTOTYPING	0	0	0	140	60	0	0	4	4	

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

**CO 3-** Analyze the socio-cultural economic influences on the craft, traditional methods of designing and production, use of indigenous materials and use of local technology, market linkages, external influences, etc.

### **Syllabus**

UNIT – I To establish an appreciation and understanding of our rich culture, heritage and vast vocabulary of craft techniques. To expose the students to the gamut of contextually responsive space design of a community, craft activity and the role of design there of.

12HRS

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BDNP - 602	STUDIO	CRAFT BASED DESIGN PROJECT AND PROTOTYPING	0	0	0	140	60	0	0	4	4	

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

UNIT – II To evaluate the possibility of extending the traditional material, construction techniques and craft techniques to contemporary application. To equip the students to undertake field research using suitable research tools wherein they directly interact with communities, artisans and skilled craftsman to collect analyze and record data

12HRS

UNIT - III The course primarily focuses on an in-depth study, research and documentation of a particular context, craft community and craft: keeping in view various aspects such as the evolution of the craft, communities engaged in practicing the craft, socio-cultural economic influences on the craft, traditional methods of designing and production, use of indigenous materials and use of local technology, market linkages, external influences, etc 12HRS

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			TEACHING & EVALUATION SCHEME								
			7	THEORY		STU	STUDIO L T S	S	CREDITS		
COURSE Course CODE Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BDNP - 602	STUDIO	CRAFT BASED DESIGN PROJECT AND PROTOTYPING	0	0	0	140	60	0	0	4	4

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

UNIT – IV The students are required to spend a part of their project time on field interacting directly with practitioners of the selected craft. They collect and analyze the data using multiple tools in written and visual form. This is recorded by the students in form of a document wherein the students are also encouraged to present their individual insights, findings, and suggestions

12HRS

**UNIT –V** Prototyping

12HRS

**References:** \*No references as this is region based project

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### Shri Vaishnav institute of Architecture

# Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 B.Des. Product Design

### BDNP - 603 - FORMS IN FOUR DIMENSIONS

			TEACHING & EVALUATION SCHEM						СНЕМ	E	
COURCE			Т	HEORY		STU	DIO	L	T	S	CREDITS
COURSE CODE	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNP - 603	STUDIO	FORMS IN FOUR DIMENSIONS	0	0	0	140	60	0	0	4	4

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

## **Course Educational Objectives (CEOs):**

To explore and understand the various principles of design and their transformation of Design

## **Course Outcomes (COs):**

- **CO 1-** Ability to control surfaces of objects created from imagination.
- $\boldsymbol{CO}$  2- Understanding of evolution of shapes and forms .
- **CO 3-** Function oriented look at product aesthetics Applying Logic and mathematics to generate volumes

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### BDNP – 603 – FORMS IN FOUR DIMENSIONS

			TEACHING & EVALUATION SCHEME								
			THEORY STUDIO L					T	S	CREDITS	
COURSE CODE	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam		END SEM University Exam	Teachers Assessment*				
BDNP - 603	STUDIO	FORMS IN FOUR DIMENSIONS	0	0	0	140	60	0	0	4	4

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

### **Syllabus**

UNIT – I Projection and Transition Movement of Light around a Form, Movement in time and space. Movement of Space around a Form
 12HRS

UNIT – II Kinematic Structures, Mechanisms, spontaneous, automatic and reactive dynamic forms

12HRS

UNIT - III Transformation Fluid Forms, Semi Fluid Forms, Semi Solid Forms

12HRS

UNIT – IV Evolution Feature based evolution; Content based evolution; Environment Based
 Evolution
 12HRS

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

## **B.Des. Product Design**

### BDNP – 603 – FORMS IN FOUR DIMENSIONS

	COURSE Course COURSE NAME Typology			TEACHING & EVALUATION SCHEME								
					THEORY		STUDIO		L	T	S	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*						
	DNP - 603	STUDIO	FORMS IN FOUR DIMENSIONS	0	0	0	140	60	0	0	4	4

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

UNIT –V Union and Separation Merger, Conformity, Subtraction, Division Union and Separation Merger, Conformity, Subtraction, Division. Union and Separation Merger, Conformity, Subtraction, Division
12HRS

### **References:**

- 1. 1.Ellen Lupton, Jennifer Tobias, Alicia Imperiale, Grace Jeffers and Randi Mates, Skin: Surface, Substance, and Design
- 2. Princeton Architectural Press, 2002
- 3. Li: Dynamic Form in Nature, Wooden Books, 2007
- 4. Lung-Wen Tsai, Mechanism Design: Enumeration of Kinematic Structures According to Function, CRC Press, 2001

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### Shri Vaishnav institute of Architecture

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

## **B.Des. Product Design**

### BDNP - 604 - PACKAGING DESIGN

			TEACHING & EVALUATION SCHEME								
			Т	HEORY		STU	DIO	L	Т	S	CREDITS
COURSE CODE	COURSE COURSE Typology COURSE I	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNP - 604	STUDIO	PACKAGING DESIGN	60	20	20	0	100	1	0	3	4

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

## **Course Educational Objectives (CEOs):**

To introduce students to the field of packaging design and make them understand design process, structural possibilities and material used in packaging through hands on assignments

### **Course Outcomes (COs):**

- **CO 1-** To understand that packaging has a crucial role to attract consumer, force them to choose the product and act as a brand communication vehicle.
- **CO 2-** It will also help students to understand the effect on consumer's perception about products and brands through structural packaging.

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### BDNP - 604 - PACKAGING DESIGN

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			Т	HEORY		STU	DIO	L	Т	S	CREDITS
COURSE CODE	COURSE Course Typology COURSE N	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNP - 604	STUDIO	PACKAGING DESIGN	60	20	20	0	100	1	0	3	4

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

**CO 3-** Understanding on different types of Material used in packaging through hands on assignments

## **Syllabus**

UNIT – I Introduction to different kinds of packaging material; Studying about requirements of different products; Exposure of products, services and packaging in stores and similar environments

12HRS

**UNIT – II** CASE STUDIES- Studying a variety of packaging case studies for different brands, materials used; studying the sustainability aspect; understanding the feasibility; Deconstructing and studying packaging of different brands (2-5 brands can be taken in consideration); Elaborating the study on any of the selected brands. **12HRS** 

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			Т	HEORY		STUDIO		L	T	S	CREDITS
COURSE CODE	Course Typology	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNP - 604	STUDIO	PACKAGING DESIGN	60	20	20	0	100	1	0	3	4

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

UNIT - III PROJECT SELECTION- Selection of product for packaging development; Researching about the current packaging available; constraints and positive aspects; understanding, target audience, budget, branding

12HRS

UNIT – IV PROJECT DEVELOPMENT- Developing a packaging for the selected product; incorporating improvements that can be worked upon after the research work

12HRS

UNIT -V FINAL PACKAGING AND ITS BRANDING- Working on the branding aspect of the packaging that has been developed 12HRS

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### BDNP - 604 - PACKAGING DESIGN

			TEACHING & EVALUATION SCHEME								
			THEORY STUD					L	Т	S	CREDITS
COURSE CODE	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BDNP - 604	STUDIO	PACKAGING DESIGN	60	20	20	0	100	1	0	3	4

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

### **References:**

- 1. 1.Marianne R. Klimchuk, Sandra A. Krasovec, Packaging Essentials: 100 Design Principles for Creating Packages (Design Essentials), Rockport Publishers; 1 edition, June 1, 2010
- 2. Paul Jackson, Structural Packaging: Design your own Boxes and 3D Forms (Paper engineering for designers and students), Laurence King Publishing, 2012 Faculty of Architecture and Planning, Integral University, Lucknow
- 3. Giles Calver, What Is Packaging Design? (Essential Design Handbooks), Rotovision, 2007
- 4. Peng Chong (Editor), Interactive Packaging Design, Design Media Publishing Ltd, 2018
- 5. Pentawards (Editor), The Package Design Book 2 (VARIA), TASCHEN; Mul edition, 2013
- 6. Tony Ibbotson, Peng Chong, Eco Packaging Now, Images Publishing Dist Ac, 2016

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### **Shri Vaishnay institute of Architecture**

# Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 B.Des. Product Design

### **BDNP - 605 - DISSERTATION**

			TEACHING & EVALUATION SCHEME								
			THEORY			STU	DIO	L	T	S	CREDITS
COURSE CODE	COURSE NAME	END SEM University Exam	Two Term Exam		END SEM University Exam	Teachers Assessment*					
BDNP - 605	STUDIO	DISSERTATION	0	0	0	40	60	0	0	3	3

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

## **Course Educational Objectives (CEOs):**

The dissertation provides a forum for discussion of issues relating to design concerns, design philosophy, design need or any other design related areas.

## **Course Outcomes (COs):**

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

**CO 1-** To strengthen the students' ability to undertake self-initiated research or acquire particular competence.

**CO 2-** To explore and reflect the students' perception and understanding of the chosen area through facts, case study, field research.

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### **BDNP - 605 - DISSERTATION**

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BDNP - 605	STUDIO	DISSERTATION	0	0	0	40	60	0	0	3	3

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

**CO 3-** Understanding on methodology of research, nature of research, various Stages of research, design and research methodology Techniques of data collection in different stages, research reporting techniques, structure of a report, Writing skills, presentation skills. Standards for Use of primary and secondary references, bibliography, notation, cross references etc Nature of an undergraduate thesis, its structure and other requirements.

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### Shri Vaishnav institute of Architecture

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

## **B.Des. Product Design**

### **BDNP - 606 - INDUSTRIAL SITE VISIT**

		TEACHING & EVALUATION SCHEME								
		THEORY		STU	DIO	L T		S	CREDITS	
COURSE Course COURSE NAME Typology	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
STUDIO	INDUSTRIAL SITE	0	0	0	0	100	0	0	2	2
	Typology	Typology COURSE NAME  INDUSTRIAL SITE	Course Typology COURSE NAME WEST AND TO THE TYPOLOGY  TOURSE NAME  TOU	Course Typology  COURSE NAME  THEORY  Was a max	Course Typology  COURSE NAME  COURSE NAME  THEORY  THEORY  THEORY  THEORY  THEORY  THEORY  THEORY  THEORY  THEORY  O  O  O  O  O	Course Typology  Course Typology  Course Typology  Course Typology  Theory STU STU STU STUDIO  INDUSTRIAL SITE  O  O  O  O	Course Typology  COURSE NAME  THEORY  STUDIO  THEORY  STUDIO	Course Typology  COURSE NAME  THEORY  STUDIO  THEORY  STUDIO	Course Typology  COURSE NAME  THEORY  STUDIO  THEORY  THEORY  THEORY  THEORY  THEORY  STUDIO  THEORY  THEORY	Course Typology

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

## **Course Educational Objectives (CEOs):**

Industrial visit will be conducted for students, to have in-depth knowledge on how industry works.

### **GUIDELINES**

- A tour report of A-3 size sheets with proper sketches, photographs, and theory documentation of the topic.
- Videos or any other supporting documentation can also be a part of submission as per the requirement.

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