



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNI 301 - INTERIOR DESIGN STUDIO - I

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*				
BDNI 301	INTERIOR DESIGN STUDIO - I				270	180			9	9

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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		THEORY			PRACTICAL		L	T	S	CREDITS
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BDNI 301	INTERIOR DESIGN STUDIO - I				270	180			9	9

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

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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
27 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.
27 HRS

UNIT – III Visual analysis of designed spaces noted for comfort and spatial quality; analysis of solid and void relations, positive and negative spaces. Integration of spaces and function in the design of bus shelter, milk booth, watchman’s cabin, traffic police kiosk, flower stall, ATM center, etc.
27 HRS

UNIT-IV 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.
27HRS

UNIT V -Light & air ventilation – comfort conditions. Problems and evolving solution-concept formation for design.
27HRS

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BDNI 301	STUDIO	INTERIOR DESIGN STUDIO - I				270	180				9	9

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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Shri Vaishnav Institute of Architecture

B. Des in Interior Design

BDNI 302 - INTERIOR MATERIALS AND CONSTRUCTION-II

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME																	
		THEORY						PRACTICAL		L	T	S	CREDITS						
		SEM	Univ	Exa	Two	Term	Exa	m	Asses	smen	Univ	ersity	hers	Asses	smen				
BDNI 302	INTERIOR MATERIALS AND CONSTRUCTION-I		60		20			20		60		40		2			2		4

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	To expose students of interior design with different materials and construction of finishes and furnishings..
CEO 2	After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes. basic components of a building, their construction techniques and methods of representation of the same through drawings also students will be able to Detailing of different surfaces in interior , impact of new materials and techniques in design

Course Outcomes (COs):

CO 1	To impart knowledge on the various materials while highlighting the current trends and innovations in the usage of interior design materials.
CO 2	Materials to be studied based on – Physical and behavioral properties, tools and technology of its application in the construction of floors, walls, ceilings, walls, doors, windows, staircase, built in furniture, partitions and other interior design components.
CO3	Visual quality of materials in terms of finishes through color, texture, modulations and pattern evolution. Material and workmanship, specification etc.

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		THEORY					PRACTICAL		L	T	S	CREDITS					
		SEM	Univ	Exa	Two	Term	Exa	min	Asses	Univ	Exa	Asses	min				
BDNI 302	INTERIOR MATERIALS AND CONSTRUCTION-I		60		20		20		60		40		2		2		4

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

UNIT I – BASIC STRUCTURES –Masonry – mud, bricks, building tiles i.e roof, floor and wall tiles, stones, clay, lime, sand, mortars, cement and aggregates, concrete, gypsum based plaster etc. **15 HRS**

UNIT II -Timber, cane, bamboo – characteristics of good timber, defects, applications of timber like joints, floors, openings, staircases, roof forms etc. Finishes in timber like flooring, paneling etc. Finishes to timber. **15 HRS**

UNIT III -Wood – Plywood, block boards, particle board, medium density fibre etc. – their properties, process of manufacture, tools and technology of its application and quality assessment, finishes to reconstituted wood, - lamination, polishing etc. Insulation materials – various insulating materials, their properties and applications. Surface finishes for wood products and derivatives etc., Coatings – clear and pigmented finishes technical or protective coatings etc. **15HRS**

UNIT IV -Paints– Protective coating paints, types of paints – water paints, distempers, cement based paints, emulsion paints, anti corrosive paints etc. – composition, functions, preparation and application method, painting on different surfaces, defects in painting etc **15HRS**

UNIT V – Varnishes (oil and spirit) – various types – French polish, damp proofing finishes etc. and methods of application. **15 HRS**

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		THEORY					PRACTICAL			L	T	S	CREDITS
		SEM	Univ ersity Exa	Two Term Exa	m iners Asses sment	Univ ersity iners Asses sment	Univ ersity iners Asses sment	Univ ersity iners Asses sment					
BDNI 302	INTERIOR MATERIALS AND CONSTRUCTION-I	60	20	20	60	40	2		2	4			

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:

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
6. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
7. Moxley, R. Mitchell’s Elementary Building Construction, Technical Press Ltd

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B. Des in Interior Design

BDNI 303 - FURNITURE DESIGN –I

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 Exams	Teachers Assessment				
BDNI 303	FURNITURE DESIGN -I				90	60			3	3

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	Understanding of Furniture design is an essential element of Interior design, this subject helps student to understand the basics of furniture joinery.
CEO2	In this subject student will understand the structural behavior which provides the scope for the creativity.

Course Outcomes (COs): -

CO1	Focus should be given on the study of anthropometric aspects, human factors & structural stability of the furniture design
CO2	Understanding and analysis of the Role of various effective materials
CO3	Student will understand technology to be incorporated in furniture design.

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BDNI 303	FURNITURE DESIGN -I				90	60			3	3

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

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SYLLABUS

UNIT I - FURNITURE CATEGORIES-

Furniture categories, exploration of the idea of furniture, role of furniture in interior design, Design approaches in furniture design. Assignment: Measured drawing of a piece of furniture – plan, elevation and drawings on full scale

09HRS

UNIT II – FUNCTIONAL AND FORMAL ISSUES IN DESIGN-

study and evaluation of popular dictums such as “Form follows function”, Form and function are one”, “God is in Details” etc. Evaluation of visual design: study of Gestalt theory of design – law of enclosure, law of proximity, law of continuity etc. Human factors, engineering and ergonomic considerations: principles of universal design and their application in furniture design.

09HRS

UNIT III- AN INTRODUCTION OF VARIOUS MANUFACTURING PROCESSES

An introduction of various manufacturing processes most frequently adopted in furniture design such as Injection Molding, investment casting, sheet metal work, die casting, blow- molding, vacuum - forming etc and Furniture Joinery.

09HRS

UNIT IV– SEATING DESIGN: Different types of seating with a focus on the following –

- 1.Functionality
- 2.Aesthetics
3. Style
- 4.Human factors and ergonomics.

The other component to be considered is the cost of the designed furniture piece.

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BDNI 303	FURNITURE DESIGN -I				90	60			3	3

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

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UNIT V- Storage systems: Functional analysis of storage systems and thereby deriving types of cabinets needed for interior spaces – kitchen cabinets, wardrobes closets, book cases, show cases , display systems etc. **09HRS**

SUGGESTED BOOKS REFERENCES:

1. Interior Design, John F. Pile, Harry N.AbramsInc Publishers, New York
2. Interior Design Course, Mary GilliatCoyran, Octopus Ltd., London
3. The Encyclopaedia of Funriture, Joseph Aronson, Crwon Publishers, New York
4. Interior Design & Decoration, SherrilWhiton, Prentice Hall
5. Interior Design, Francis D.K. Ching, John Wiley & Sons, New York

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B. Des in Interior Design

BDNI 304 – SERVICES-I

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL	L	T	S	CRE DITS	
		END SEM University Exam	Two Term Exam	Teachers Assessment t*	END SEM University Exam	Teachers Assessment t*				
BDNI 304	SERVICES-I	60	20	20	30	20	2		1	3

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 understanding the significance of design and functioning of water and sewerage systems as essential components in Interior Design
CEO 2	understanding the electrical services and utilities generally installed and special types of services and facilities in the interiors and focusing on the principles as well as practical aspects and solutions

Course Outcomes (COs)

CO 1	To expose the students to various ways to provide information on the principles of water supply and sanitation.
CO 2	To develop the understanding of layout, functioning and application of utilities and services in the interiors
CO3	To enable students to design sanitary and water supply systems in the interiors.

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BDNI 304	SERVICES-I	60	20	20	30	20	2		1	3

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SYLLABUS

UNIT I- GENERAL IDEA OF SOURCES OF WATER SUPPLY: Standards for quality of water. Domestic water systems, suction and storage tanks and their capacity. Pipes and their sizes and jointing. Consumption of water. Down take supply to various fittings. Types of fittings like taps, ball valves, hot water supply systems, bathtubs, showers, jets, cocks, valves etc. Faucets for kitchens, bathrooms and toilets. Check valves, foot valves, sump pump check valves etc. **09HRS**

UNIT II- BASIC PRINCIPLES of sanitations and disposal of waste materials from buildings. Connection to outdoor drainage system, size requirements calculations, types of pipes available in the market. Water carriage systems, standard sanitary fittings, traps, pipes and their jointing. Flushing systems. Bathroom interior layouts, extensive market survey of products available, economies of products available, fixing of the products with other finishing materials. **09HRS**

UNIT III- BUILDING WIRING SYSTEM: Service wires, metering distribution boards, circuits, MCB cutouts. Conductors, wiring methods, switch boards, electrical devices in the buildings, light and power circuits. Indian electricity rules, relevant provisions of NBC. Preparation of electrical layout scheme for a interior using standard electrical symbols. **09HRS**

UNIT IV- AIR CONDITIONING AND MECHANICAL VENTILATION – mechanical inlet and extraction systems. Functions of air conditioning. Principles of AC, capacity of AC, calculation of AC loads. Types of AC systems – 52 window AC, split, ductable, central AC and their details. Air distribution systems – ducts, air inlets. Noise control of AC. **09HRS**

UNIT V- Refuse, different forms of refuse garbage, house refuse – its collection, storage and transport, refuse chutes etc. **09HRS**

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BDNI 304	SERVICES-I	60	20	20	30	20	2		1	3

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***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:

- Hussain S.K, T.B of water supply and sanitary engineering, 3rd ed, Oxford and IBH pub. Ltd., New Delhi, 1994
- Kshirsagar, S. R, Water supply engineering, 6th ed, Roorkee publications, 1980.
- Rangwala, S.C. water supply and Sanitary Engineering : Environmental Engineering, 19th ed, Charotar pub house, Anand, 2004.
- Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company.
- Dr Frith Abnws and others, Electrical Engineering hand book.

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B. Des in Interior Design

BDNI 305 - COMPUTER APPLICATIONS – I

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME										
		THEORY				PRACTICAL		L	T	S	CRE DITS	
		ENDESEM University Exam	Two Term Exam	Teachers Assessment	t*	ENDESEM University Exam	Teachers Assessment	t*				
BDNI305	COMPUTER APPLICATIONS - I					60	40				2	2

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 develop skills of technical representation of designs through Cad 2D
CEO2	After completion of this course the students are expected to be able to good Computer-aided design & drafting.

Course Outcomes (COs): -

CO1	Student will understand to develop skills of 2d drafting .
CO2	Student will understand to develop skills of productivity of tools
CO3	Understanding of manual and digital drawings.

Syllabus

UNIT I- Introduction to CAD- 2DDRAFTING, Starting with Sketching, Working with Drawing Aids, 6 HRS

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		END SEM University Exam	Two Term Exam	Teachers Assesmen t**	END SEM University Exam Teachers Assesmen t**						
BDNI 305	COMPUTER APPLICATIONS - I				60	40				2	2

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 II- Project sheet composition & presentation, Printing or Plotting - Drafting Furniture with details. Drafting of Plans and Elevations & composition the sheet with all neassary details, Uses of printer& sheet printing in scale,conversion of different formate,in 3d model export. **6 HRS**

UNIT III- Editing Sketched Objects, Layers, Editing Sketched Objects II,Editing Dimensions, Dimension Styles, **6HRS**

UNIT IV- Adding Constraints to Sketches , Hatching Drawings , Paper Space **6 HRS**

UNIT V- Template Drawings, Working with Blocks, Dynamic Blocks, AutoCAD Sheet Sets. **6 HRS**

Suggested Books References:

1. Beginning AutoCAD- C.R.
2. Advanced AutoCAD by R. Chery

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BDNI 306 – WORKSHOP-I

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	S	CRE DITS
		END SEM University Exam	Two Term Exam	Teachers Assessment	END SEM University Exams	Teachers Assessment				
BDNI 306	WORKSHOP-I				90	60			3	3

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 course is intended to provide information on working with Bamboo and wood which are among the major materials used in the interiors.
CEO 2	Understanding of wood as building material, finishing material for surfaces and as furniture material.

Course Outcomes (COs):

CO 1	After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.
CO 2	To give an exposure to the materials and introduce various tools and techniques in making objects..
CO3	Students will successfully to make products and elements of various scales for interiors with bamboo and wood.

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ShriVaishnavVidyapeethVishwavidyalaya, Indore

BDNI 306 – WORKSHOP-I

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	S	CRE DITS
		END SEM University Exam	Two Term Exam	Teachers Assessment	END SEM University Exam	Teachers Assessment				
BDNI 306	WORKSHOP-I				90	60			3	3

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

UNIT I- Types of wood –natural and artificial and its properties

Working with wood and wood products to understand material parameters. Wooden joinery and its strength. Wood polishes and other finishes – color and surface quality. **9 HRS**

UNIT II- Making of elements of various scales in the built form such as interior space making elements, furniture forms, various products, Art & Artifacts by using wood. . **9 HRS**

UNIT III- Introduction to cane, bamboo, working with bamboo/cane and their products to understand material parameters. Bamboo and cane joinery and its strength. Polishes and other finishes. **9 HRS**

UNIT IV- Understanding the material and tools by making objects which allow students to explore the forms, surfaces, textures and patterns. **9 HRS**

UNIT V- Explore different joinery, support conditions, and woven surfaces. **9 HRS**

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BDNI 306	WORKSHOP-I				90	60			3	3

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Suggested Books References:

- Carol Stangler, The crafts and art of Bamboo, Rev. updated edition, Lark books, 2009.
- Dr Angelika Taschen, Bamboo style: Exteriors, Interiors, Details, illustrated edition, 2006.
- Albert Jackson & David Day,
- The complete manual of wood working, knopf publishers, 1996.
- Lonnie Bird, Jeff Jewitt, Thomas lie- Nielsen,
- Taunton's Complete Illustrated Guide to Woodworking, Taunton, 2005.
- Peter Korn, Wood working Basics : Mastering the essentials of craftsmanship, Taunton , 2003.

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Shri Vaishnav Institute of Architecture

B. Des in Interior Design

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	S	CREDITS
		M	U	T	M	U				
	ELECTIVE-III									
BDNI 307(1)	CERAMICS ART									
BDNI 307(2)	INTERIOR DESIGN PHOTOGRAPHY					50			1	1
BDNI 307(3)	Model making									

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

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

Course Educational Objectives (CEOs):	Students can select the subject of their interest from the list of Pool electives provided for B.des students. They have to perform the exercises planned in the particular, studies can also be conducted in the form of survey, case studies, documentation etc.
Course Outcomes (COs):	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 impart the knowledge to develop art and design skills , and to enhance the imaginative thinking in the students.

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B. Des in Interior Design

BDNID - GENERIC ELECTIVE

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	S	CRE DITS
		END SEM University Exam	Two Term Exam	Teachers Assessment	END SEM University Exam	Teachers Assessment				
BDNID	GENERIC ELECTIVE	60	20	20			3			3

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

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

Course Educational Objectives (CEOs):	Students can select the subject of their interest from the list of Pool electives provided for B.des students. They have to perform the exercises planned in the particular, studies can also be conducted in the form of survey, case studies, documentation etc.
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Course Outcomes (COs):	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 impart the knowledge to develop art and design skills , and to enhance the imaginative thinking in the students.
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