



# Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

## Shri Vaishnav Institute of Architecture

### B. Des in Interior Design

#### BDNI 501 - INTERIOR DESIGN STUDIO - III

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*				
BDNI501	INTERIOR DESIGN STUDIO - III				240	160			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	To introduce the basics of designing for Commercial interiors and to develop skills required for the same.
CEO 2	This course is intended to provide skills for designing single use interior spaces or products etc.

#### Course Outcomes (COs):-

CO1	To understand projects of commercial value with a theme
CO2	To develop creative conceptual visualization, hand skill building, and the process of design.
CO3	To explore and create spatial design with respect to different genres.

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		THEORY			PRACTICAL	L	T	S	CREDITS	
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
<b>BDNI501</b>	<b>INTERIOR DESIGN STUDIO - III</b>				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.

### Syllabus

Design projects to highlight the theme of a commercial space in terms of showroom , Restaurant, Working space and draw out different design solutions highlighting the specialties. Students should be able to work out a Theme , and design solution to represent the theme in different context and material ,design language and innovative solutions. **6 HRS**

Note: One major exercises and two minor time problems should be given. Internal marking shall be done in stages and project wise:

Schematiclayouts	<b>32 HRS</b>
Finallayout	<b>32 HRS</b>
Sectionalelevations	<b>32 HRS</b>
Designs &details	<b>32 HRS</b>

### Suggested Books References:

1. Time-Saver Standards for Interior Design and Space Planning, Joseph De Chiara, Julius Panero,
2. Space Planning for residential Interiors , Book by Mary Lou Bakker .

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## Shri Vaishnav Institute of Architecture

### B. Des in Interior Design

#### BDNI502 - SUSTAINABLE MATERIALS AND TECHNOLOGY IN INTERIORS

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*				
BDNI502	SUSTAINABLE MATERIALS AND TECHNOLOGY IN INTERIORS	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):-

CEO1	To understand know the various methods used to enhance the indoor quality of interiors.
CEO2	This course is intended to Explore the energy conservation techniques in interiors and to understand the benefits of green interiors

#### Course Outcomes (COs): -

CO1	To understand Illustrate the impact of buildings on environment
CO2	To understand the Identify the roles of human capital and interiors in indoor environment.
CO3	To Understand the use of principles of sustainable design in interiors using real time applications

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		THEORY			PRACTICAL		L	T	S	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNI502	SUSTAINABLE MATERIALS AND TECHNOLOGY IN INTERIORS	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-

**INTRODUCTION** There is growing recognition within the sustainability movement that to be truly effective, a green facility must do more than effectively use natural resources. These facilities need to nurture the health, prosperity and general well being of the inhabitants of its interior spaces. **12 HRS**

**UNIT2-** Introduction to sustainable interiors and principles of sustainable interior design **12 HRS**

**UNIT3-** Interior design solutions using green materials. **12 HRS**

**UNIT4-** Technologies and indoor environment quality and its elements material. **12 HRS**

**UNIT5** -Sustainable interior materials interior eco finishes like eco-furniture, reclaimed timber wood, eco palm wood, eco bamboo, lyptus wood, eco cork, formaldehyde free fiberboard & fsc(forest stewardship council )certified fiberboard ,eco wheat board, strawboard, eco kirei board (product of stalks of the sorghum plant), rubber wood etc. **12 HRS**

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		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
<b>BDNI502</b>	<b>SUSTAINABLE MATERIALS AND TECHNOLOGY IN INTERIORS</b>	<b>60</b>	<b>20</b>	<b>20</b>	<b>60</b>	<b>40</b>	<b>2</b>		<b>2</b>	<b>4</b>

### REFERENCE BOOKS

1. Sustainability in Interior Design, By Sian Moxon
2. Sustainable Design for Interior Environments Second Edition , Susan M. Winchip
3. Environmentally Responsible Design: Green and Sustainable Design for Interior Designers illustrated edition Edition (Jones [dr. Louise])
4. Sustainable Residential Interiors (Kari Foster Annette Stelmack Associates III Stelmack Foster)
5. Designing Sustainable Residential and Commercial Interiors: Applying Concepts and Practices (Lisa M. Tucker)

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# Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

## Shri Vaishnav Institute of Architecture

### B. Des in Interior Design

#### BDNI 503 - Interior Furnishing

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*				
<b>BDNI 503</b>	<b>Interior Furnishing</b>	<b>60</b>	<b>20</b>	<b>20</b>				<b>2</b>		<b>2</b>

**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	The main aim of the course is to provide knowledge of details Interior Furnishing.
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#### Course Outcomes (COs): -

CO1	To develop the vision of Fabric types and classification
CO2	To develop an understanding of the application of textile products in interiors
CO3	To develop the meaning of Sustainable interior materials

## Syllabus

**UNIT I- INTRODUCTION TO FABRICS AND ITS ELEMENTS** Fabric, yarn and fiber structure, Fabric structure- woven- warp, weft, selvedge ,knitted- course, non-woven, Fabric types and classification - woven, including plain, twill, satin, Jacquard, crepe and pile weaves, knitted- including single knit, double knit, tricot knit, pile knit, lace and net ,non-woven-including felts webs and films, identification and properties of fabrics, yarns and fibers.

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		THEORY			PRACTICAL		L	T	S	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNI 503	Interior Furnishing	60	20	20				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- FURNISHINGS** Wall paneling, floor coverings, furniture , curtain construction , rugs and carpets , type of selection , flexibility for use, care and maintenance etc.

**UNIT III-APPLICATION IN INTERIORS** Application of textile products in Interiors , furnishings, finishes , textile arts , natural materials.

**UNIT IV -COLOUR APPLICATIONS** Process of applying colors on fabrics , traditional and modern methods , tie and dye printing , batik printing , Mblock printing Hand block printing. Perrotine printing. Engraved copperplate printing. Roller, cylinder, or machine printing. Stencil printing. Screen printing. Digital textile printing. Discharge Printing.

**UNIT V- OTHER NATURAL MATERIALS – JUTE , LEATHER, COTTON** etc  
Detail study of material with their advantages and disadvantages.  
Application of different materials in Interiors.

### REFERENCE BOOKS

1. Inside today's home, Faulkner, R. and Faulkner 1987, Rinebart Winston, New York
2. Interior Design & Decoration, SherrilWhiton, Prentice Hall
3. Introduction to home furnishings, Stepat, D.D, 1991, The macmillancompany, New York.
4. The themes and Hudson manual of textile printing , Storeyjoyce , 1992, London
5. Colour in interior Design John, F.P, 1997, McGraw Hill Company

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## Shri Vaishnav Institute of Architecture

### B. Des in Interior Design

#### BDNI 504 – INTERIOR LANDSCAPING

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 504	INTERIOR LANDSCAP DESIGN				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	To learn ways of using plants as a design element and understand their visual and physical dimensions.
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#### Course Outcomes (COs): -.

CO1	To learn the basic palette of design outside the premise of the built envelope
CO2	To get an in-depth knowledge of plant life and the science behind their life
CO3	To understand the role of hardscape elements and assess their role individually

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		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNI 504	INTERIOR LANDSCAP DESIGN				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-LANDSCAPE AND BUILTENVIRONMENT –

**10 HRS**

Introduction and role of landscape design in the built environment. Types of natural elements – stones, rocks, pebbles, water forms, plants and vegetation. Introduction to the study of plants in relation to landscape design and interiors. Types of indoor plants, visual characteristics: i.e., color, texture, foliage.

#### UNIT II -VISUAL PERCEPTION

**10 HRS**

Flowers- its colors, texture and its visual perception in various indoor spaces and science of flower arrangement Indoor plants in Indian context. Plant biology, soil, moisture, light nutrient, atmospheric conditions, growing medium, pests & diseases. Botanical nomenclature, anatomy and physiology of plant growth. Market survey and costs.

#### UNIT III – DESIGN WITH PLANTS

**10 HRS**

Design with plants – Basic principles of designs. The physical attribute of plants and relation to design. Appearance, functional and visual effects of plants in landscape design and built environment. Selection and management of plant material in relation to the built environment.

#### UNIT IV –HARDSCAPE

**8 HRS**

Design concepts related to use of sculpture, lightings, garden furniture, architectural feature and grouping them into meaningful compositions for visual and functional effects.

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		THEORY			PRACTICAL		L	T	S	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNI 504	INTERIOR LANDSCAP DESIGN				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.

### UNIT V– LANDSCAPE DESIGN PARAMETERS

**7 HRS**

Landscaping design parameters for various types of built forms- indoor and outdoor linkage to spaces. Landscaping of courtyards- residential and commercial forms. Indoor plants and their visual characteristics-Science of maintaining and growing greenery. Automatic irrigation costing and installation of micro irrigation systems.

### REFERENCE BOOKS

1. Chris Calori, Signage and Way finding Design: A Complete Guide to Creating Environmental Graphic Design Systems, Wiley and sons, 2007.
- 2 David Gibson, The Way finding Handbook: Information Design for Public Places, Princeton Architectural Press; 1st edition, 2009.
- 3 Rayan Abdullah and Roger Hubner, Pictograms, Icons and Signs, Thames and Hudson, illustrated edition, 2006

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## Shri Vaishnav Institute of Architecture

### B. Des in Interior Design

#### BDNI 505 - COMPUTER APPLICATIONS - III

COURSE CODE	COURSE NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	S	CRED ITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNI505	COMPUTER APPLICATIONS - III				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	To provide students 3D modeling & rendering skill knowledge, which helps them in visualizing the concepts of their design
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#### Course Outcomes (COs): -

CO1	To understand the theory behind 3d modeling with wireframe structures.
CO2	To explore on the solid modeling techniques in the software.
CO3	To understand the rendering and presentation techniques for a drawing

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		THEORY			PRACTICAL		L	T	S	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
<b>BDNI505</b>	<b>COMPUTER APPLICATIONS - III</b>				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** – SKETCH UP 10 Orientation towards 3D : 2D to 3D conversion, perspective view. **6 HRS**

**UNIT II** - SKETCH UP 10 Understanding 3D, theory behind 3D modelling. Preparing for construction of 3D models. Construction of 3D surface models- extrusion, wire frame, creation of a shell, elaborate surfaces. **12 HRS**

**UNIT III** - Create a 3D assembly and generate various views, lighting. **12 HRS**

**UNIT IV** - Create a 3D walk through. **10 HRS**

**UNIT V** - RENDERING & PRESENTATION TECHNIQUES Rendering and presentation. Printing and plotting.(V ray, In design, Illustrator, Lumion) **5 HRS**

### REFERENCE BOOKS

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

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## Shri Vaishnav Institute of Architecture

### B. Des in Interior Design

#### BDNI 506 - Commercial Space Working Drawings, 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*				
BDNI 506	Commercial Space Working Drawings-II(CAD)				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	The course is designed to give knowledge about technical representation of designs.
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#### Course Outcomes (COs)

CO1	Main focus should be given to make student understand co-relation of proper Technical representation of drawing
CO2	student understand co-relation of proper Technical representation reading of technical drawing.
CO3	student will understand Implementing Agencies & Applications of material

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		THEORY			PRACTICAL		L	T	S	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BDNI 506	Commercial Space Working Drawings-II				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-- SYMBOLS AND BUILDING ELEMENTS** Working drawing of different types of building elements such as doors, windows, roof, floor, partitions, staircases, parapet, chajja, sill, lintel etc. knowledge about different types of lines , textures and symbols and their use. **05 HRS**

**UNIT II-- INTERIOR ELEMENTS** working drawing of wall murals reflected ceiling plans and flooring patterns, partitions. Working drawing of furniture such as work station, living room furniture, bedroom furniture and dining tables. Wardrobes, TV cabinet and showcase, crockery shelves, cadenza, chest of drawers, dressing table, etc . **10 HRS**

**UNIT III-** 2D software used in working drawings should be used to detail residential project drawings. **10 HRS**

**UNIT IV-** Residential project drawings should be detailed using 3D software, and interior views should be created. **15 HRS**

**UNIT IV-** Furniture Detailing of joinery and other specifications. **05 HRS**

### REFERENCE BOOKS

1. De Chiara and Callender – Time Saver Standards for interior design, 1982.
2. The Interior Design Reference & Specification Book , by Linda O'Shea

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		THEORY				PRACTICAL			L	T	S	CREDITS
		SEM University	Two Term Exam	Teachings	Assessment*	SEM University	Teachings	Assessment*				
	ELECTIVE-III											
BDNI 507(1)	LIGHTING IN INTERIORS											
BDNI 507(2)	REPRESENTATION OF SPACES					100				2		2
BDNI 507(3)	VASTU'S RELEVANCE IN INTERIOR DESIGN											

**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.

<b>Course Educational Objectives (CEOs):</b>	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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<b>Course Outcomes (COs):</b>	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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		SEM University	Two Term Exam	Teachings	Assessment*	SEM University	Teachings	Assessment*			
	<b>ELECTIVE-III</b>										
<b>BDNI 507(1)</b>	<b>LIGHTING IN INTERIORS</b>										
<b>BDNI 507(2)</b>	<b>REPRESENTATION OF SPACES</b>					100				2	2
<b>BDNI 507(3)</b>	<b>VASTU'S RELEVANCE IN INTERIOR DESIGN</b>										

### BDNI 507(1) LIGHTING IN INTERIORS

**MODULE – 1 INTRODUCTION TO LIGHTING** Introduction - Light - Electromagnetic radiation, Visual task requirements, Units of Light, Light, Vision and Buildings, Standards of Lighting and Visual comfort. The sky as a source of light.

**MODULE – 2 Daylight factor, Lighting - Windows, Room proportions and other building elements, Daylight penetration, Calculation of daylightfactor.**

**MODULE – 3 ARTIFICIAL LIGHTING** General lighting system - Direct light - Indirect light - defused light - Types of fittings - Down - lighters - wall washers - up - lighter Task lighting – Accent lighting - terminology like Lux , Lumens - illuminations required in Various areas - Variety of Lamps - Incandescent lamps - Tungsten Halogen lamps - Fluorescent lamps - Mercury lamps - sodium vapor lamps - Emergency lighting - Lighting Accessories - Protection devices- etc..

**MODULE –4 LIGHTING PLANNING** Artificial lighting and different types of Planning for lighting:- Position of lighting points – strength of light .

**MODULE –5 Type of light –type of light& its cover Type of fixtures, Elements of fixtures etc... Different type of lighting system in residential , commercial and office interiors planning and design**

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		THEORY				PRACTICAL		L	T	S	CREDITS
		SEM University	Two Term Exam	Teachings	Assessment*	SEM University	Teachings	Assessment*			
	<b>ELECTIVE-III</b>										
<b>BDNI 507(1)</b>	<b>LIGHTING IN INTERIORS</b>										
<b>BDNI 507(2)</b>	<b>REPRESENTATION OF SPACES</b>					100				2	2
<b>BDNI 507(3)</b>	<b>VASTU'S RELEVANCE IN INTERIOR DESIGN</b>										

### BDNI 507(2) REPRESENTING SPACES

MODULE – 1 Representing space as a pervasive phenomenon in literature. Philosophical cultural and social aspects of spaces in literature, cinema, theatre.

MODULE – 2 SPACE DISCOURSE Space as discourse in literature and exercise - sketching spaces from literature eg: Windows as frames of reference describing use of spaces in literary texts such as “Alice in Wonderland “- Space in middle of nowhere ,space and the mythical quality it holds conceptualizing space from sound and smell.

MODULE – 3 THRESHOLD Threshold and liminal space exercise: Find and collect picture and draw threshold spaces .Discussion on images of threshold spaces, threshold spaces in films and mythology.

MODULE - 4 SPACE IN DEMOCRACY Democracy and space public sphere, public realm and public space, rights of people over space.

MODULE -5 SPACE IN FICTION Spaces in children’s fiction comics and graphic novel.

#### REFERENCE BOOKS

Peter Zumthor, thinking architecture ,edition 3,birkhauser Architecture,2010

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<b>BDNI 507(3)</b>	<b>VASTU'S RELEVANCE IN INTERIOR DESIGN</b>										

### BDNI 507(3) VASTU'S RELEVANCE IN INTERIOR DESIGN

MODULE -1 Introduction :Meaning of Vasthu Shastra ,elements of vastu, Principles of Vastu

MODULE -2 Significance of Vasthu on Scientific basis, Vastu shashtra and climatic analysis

MODULE -3 Uses of plants according to vastu principles

MODULE -4 Placement of Furniture, Reflection and Light, Colours and Materials ,Toilet components according to vastu

MODULE -5 Application of above topics in one residential interior

#### REFERENCE BOOKS

1. Ancient Science of Vastu by Siddharth Borad and Dr. Jayshree Om
2. Remedial Vaastu for Homes by Janhavi N. Sahasrabuddhe and Narendra Hari Sahasrabuddhe
3. Scientific Vastu Shastra in Homes by Patel Sarjoo

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