

SPECIALIZATION PROGRAM IN

# BACHELORS OF DESIGN / BACHELORS OF VISUAL ARTS INTERIOR AND SPATIAL DESIGN

Revised Course Matrix & Syllabus applicable from 2019 onwards

BANGALORE CENTRAL UNIVERSITY

**BVA / B.Des - INTERIOR AND SPATIAL DESIGN**

**COURSE MATRIX - 2<sup>nd</sup> Year - SEMESTER III**

	Subject Code	Title of the Paper	Instruction Hrs./ week	Duration of Exam (Hrs.)	Marks			Credits
					IA	Viva/ Exam	Total	
Part 1 Lang uage s	University code	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	3	3	30	70	100	2
	University code	Language – II : English	3	3	30	70	100	2
		<b>CORE STUDIO COURSE</b>						
	IS31	Interior Design Thinking	6	--	30	70	100	2
	IS32	Design Studio: Form & Space - Furniture Design	6	--	30	70	100	2
	IS33	Interior Design Materials and Applications I - Wood and Wall finish	4	--	30	70	100	2
Part 2	IS34	Technical Drawing	4	--	30	70	100	2
	<b>EL35.1/2/3</b>	<b>Elective - (Practical)</b> 35.1 Digital Design-I 35.2 Graphics Design-I 35.3 Revitalization of Arts & Crafts	4	--	15	35	50	1
Part 3	Foundatio n/ SD Course	<b>Non-Core Theory :</b> Science and Society	2	3	30	70	100	2
	<b>CC &amp; EC</b>	Workshop / Simple Project	2	--	50	--	50	1
		<b>Total Marks and Credits</b>					<b>800</b>	<b>16</b>

**B.VA / B.Des - INTERIOR AND SPATIAL DESIGN**  
**COURSE MATRIX - 2<sup>nd</sup> Year - SEMESTER IV**  
(As per the Bangalore Central University CBCS Course structure)

	Subject Code	Title of the Paper	Instruction Hrs./ week	Duration of Exam (Hrs.)	Marks			Credits
					IA	Viva/Exam	Total	
Part 1	University code	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	3	3	30	70	100	2
	University code	Language – II : English	3	3	30	70	100	2
Part 2		<b>CORE THEORY</b>						
	IS41	History of Design (Interior Design) (Theory)	3	3	30	70	100	2
		<b>CORE STUDIO COURSE</b>						
	IS42	Design Studio: Space & Planning	6	--	30	70	100	2
	IS43	Interior Design Materials and Applications II – Metal and Glass	6	--	30	70	100	2
	IS44	Architectural Elements and Services	3	--	15	35	50	1
	<b>EL45.1/2/3</b>	<b>Elective - (Practical)</b> 45.1 Digital Design-II 45.2 Graphics Design-II 45.3 Digital Animation	3	--	15	35	50	1
	IS46	Digital Visualization: 1	3	--	15	35	50	1
Part 3	Foundation/ SD Course	<b>Non-Core Theory</b> Life skill and Personality Development	2	3	30	70	100	2
	<b>CC &amp; EC</b>	Workshop / Simple Project	2	--	50	--	50	1
		<b>Total Marks and Credits</b>					<b>800</b>	<b>16</b>

## B.VA / B.Des - INTERIOR AND SPATIAL DESIGN

### COURSE MATRIX - 3<sup>rd</sup> Year - SEMESTER V

(As per the Bangalore Central University CBCS Course structure)

	Subject Code	Title of the Paper	Instruction Hrs./ week	Duration of Exam (Hrs.)	Marks			Credits
					IA	Viva/ Exam	Total	
Part 1		<b>CORE THEORY</b>						
	IS51	Environmental control (Theory)	2	3	30	70	100	2
		<b>CORE STUDIO COURSE</b>						
	IS52	Interior Design Studio II – Inhabitations	6	--	60	140	200	4
	IS53	User Element Design	6	--	50	100	150	3
	IS54	Working Drawing Details	5	--	30	70	100	2
	<b>EL55.1/2/3</b>	<b>Elective - (Practical)</b> 55.1 Digital Matte painting 55.2 Camera and Film editing 55.3 Photography	3	--	30	70	100	2
	IS56	Workshop – Textiles	5	--	30	70	100	2
	IS57	Advanced Visualization Methods:1	3	--	30	70	100	2
Part 2	University Code	<b>Non-Core Theory/SDC</b> Banking and Finance	3	3	30	70	100	2
	<b>CC/EC</b>	<b>Project</b>	--	--	50	--	50	1
		<b>Total Marks and Credits</b>					<b>1000</b>	<b>20</b>

**B.VA / B.Des - INTERIOR AND SPATIAL DESIGN**  
**COURSE MATRIX - 3<sup>rd</sup> Year - SEMESTER VI**  
(As per the Bangalore Central University CBCS Course structure)

	Subject Code	Title of the Paper	Instruction Hrs./ week	Duration of Exam (Hrs.)	Marks			Credits
					IA	Viva/ Exam	Total	
Part 1		<b>CORE THEORY</b>						
	IS61	Estimation and Project Management (Theory)	3	3	30	70	100	2
		<b>CORE STUDIO COURSE</b>						
	IS62	Interior Design Studio: III	6	--	75	175	250	5
	IS63	Complex Furniture Systems	4	--	30	70	100	2
	IS64	Landscape	4	--	30	70	100	2
	<b>EL65.1/2/3</b>	<b>Elective - (Practical)</b> 65.1 Interaction Design 65.2 Motion Graphics 65.3 Digital Illustration Technique	4	--	30	70	100	2
	IS66	Signage and Graphics	3	--	30	70	100	2
	IS67	Advanced Visualization Methods:2	4	--	30	70	100	2
Part 2	University Code	<b>Non-Core Theory/SDC</b> Entrepreneurship and Innovation	2	3	30	70	100	2
	<b>CC/EC</b>	<b>Project</b>	--	--	50	--	50	1
		<b>Total Marks and Credits</b>					<b>1000</b>	<b>20</b>

**B.VA / B.Des - INTERIOR AND SPATIAL DESIGN****COURSE MATRIX - 4<sup>th</sup> Year - SEMESTER VII**

(As per the Bangalore Central University CBCS Course structure)

	Subject Code	Title of the Paper	Instruction Hrs./ week	Duration of Exam (Hrs.)	Marks			Credits
					IA	Viva/ Exam	Total	
Part 1		<b>CORE STUDIO COURSE</b>						
	IS71	Sustainable Practices in Design	6	--	90	210	300	6
	IS72	Portfolio Development	2	--	30	70	100	2
	IS73	Interior Design Studio IV	10	--	150	350	500	10
	IS74	Design Thesis (Dissertation)	6	--	90	210	300	6
	<b>EL75.1/2/3</b>	<b>Elective - (Practical)</b> 75.1 Game Design 75.2 Videography 75.3 Preproduction	4	--	30	70	100	2
		<b>Total Marks and Credits</b>					<b>1300</b>	<b>26</b>

**B.VA / B.Des - INTERIOR AND SPATIAL DESIGN****COURSE MATRIX - 4<sup>th</sup> Year - SEMESTER VIII**

(As per the Bangalore Central University CBCS Course structure)

	Subject Code	Title of the Paper	Instruction Hrs./ week	Duration of Exam (Hrs.)	Marks			Credits
					IA	Viva/ Exam	Total	
Part 1	IS81	Graduation Project (Practical)	16	--	210	490	800	16
	IS82	Internship	--	--	150	350	500	10
		<b>Total Marks and Credits</b>					<b>1300</b>	<b>26</b>

## YEAR 2 / SEMESTER 3

**Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Language - I**

**Course Code: University code**

**Course Credit: 2**

As per the University Syllabus

**Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Language - II**

**Course Code: University Code**

**Course Credit: 2**

As per the University Syllabus

**Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Interior Design Thinking**

**Course Code: IS31**

**Course Credit: 2**

### **Brief Description of the Course:**

Design thinking as a process will be introduced to students with the various steps to be followed. The course will help students to follow the methodology process in future studio projects. It will hold scope for students to understand introductory level experience on the various steps: Empathize, Define, Ideate, Prototype, and Test and to implement them in their respective projects. Group Activity will be part of classroom learning.

### **Learning Objectives:**

Design Thinking, will bring the following:

- Understanding and empathizing with the design problems.
- Understanding the simple problem solving techniques.
- Demonstrate the skills of practical prototyping and testing.
- To work individually and in groups.
- To follow the research and design methodology in the future projects.

**Pedagogy:** Screening & Case study, Presentation, Group Discussions and Practical assignments

### **Course Outline:**

- Introduction to Design Thinking – Various steps and its application in the field of Interior and Spatial Design
- Introduction to fundamentals of Design Research and Methodology - Its importance and Objectives
- Understanding the process through various case studies which explains the evolution of Design with various functional aspects and technological advances.
- Group discussions to understand a student's perspective on evolution of design with respect to Interior and Spatial Design.

- Brain storming sessions to help students in team building with a knowledge to solve problems in groups and conclude with a solution for the same.

### **References:**

- *Product Design: Fundamentals and Methods* by Roozenburg and Eekels
- *Universal Principles of Design* by William Lidwell, Kritina Holden, Jill Butler  
Publisher: Rockport Publishers, 2003
- D. Norman, *Design of Everyday Things*, Currency Books, New York, 1990.
- A. Forty, *Objects of Desire*, Thames & Hudson, 1998
- M. Droste, *Bauhaus*, Taschen, 1994.
- Joycelyn de Noblet Ed., *Industrial Design – Reflections of a Century*, Thames and Hudson, 1993

## **Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**

### **Program: B.V.A / B.Des Interior and Spatial Design**

#### **Course Title: Design Studio: Form and Space – Furniture Design**

**Course Code: IS32**

**Course Credit: 2**

### **Brief Description of the Course:**

With respect to Form and space the course will classify space based on their function and the utility aspects and identify the intervention of the designer to aesthetically elevate the visual and functional appeal of the space. As part of Furniture Design – Students will basically understand and analyze existing 2-4 furniture's along with detailed drawings with respect to the space and later on design a simple furniture.

### **Learning Objectives:**

On completion of the course student will be able to:

- Show an awareness of the relevance of form and space in 3D Design.
- Produce a variety of concept and finished physical models.
- Interlink organic and geometrical shapes with respect to designing a space or an element.
- Understanding couple of existing furniture's and its technical aspects of working drawing detail, and design a new furniture.

**Pedagogy:** Video Screening, Presentations, Case study, Group Discussions and Practical assignments

### **Course Outline:**

- Sketching ability of a student with respect to Organic and Geometric forms.
- Technical drawing knowledge to be incorporated.
- Surface modulation, transformation and articulation of forms.
- Enclosed and Open spaces – Space defining forms
- Simple furniture design and representation of the same with technical drawing.

### **References:**

- *Elements of Design* by Gail Greet Hanna Princetown Architectural Press
- *Principles of Form and Design* by Wucius Wong
- *Design Elements : Form and Space* – Dennis M Puhalla
- *Times savers standards*

**Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Interior Design Materials and Applications I – Wood and wall finish**

**Course Code: IS33**

**Course Credit: 2**

**Brief Description of the Course:**

The course will brief the students on materials and its application in Interiors based on its properties, advantages and disadvantages with a number of site visits and market study.

**Learning Objectives:**

As Interior and Spatial Designs students, they will be able to:

- Understand the properties of a material and the purpose of application in any given space.
- Communicate with the help of case study, market survey and documenting current prices etc.
- Design an element / furniture with their respective understanding of the material.

**Pedagogy:** Presentations, Group Discussions, Practical assignments, Site Visits and Market Survey

**Course Outline:**

- Materials to be studied based on – Physical and behavioral properties, tools and technology of its application in the construction of floor, ceiling, wall, doors, windows, staircase, built in furniture, partitions and other interior design components.
- Visual quality of materials in terms of finishes through color, texture, modulations and pattern evolution. Material and workmanship, specification etc.
- Wood – Varieties of Natural and Engineered wood – Application in Interiors with respect to their properties and innovation.
- Wall Finish and Temporary Partitions – Various materials which can be used as wall finish or temporary partitions – Paint, Varnish, Wall Paper, Carpet, Glass, Wood, and Gypsum Boards etc.
- Collect various samples and represent a material board for wood and wall finish and temporary partitions.

**Note:** Market surveys to be conducted to learn about the commercial and technical names, sizes, wastages, BIS and codes for materials, testing, fabrication, commercial methods of pricing, billing etc.

**References:**

- Bindra, S.P. and Arora, S.P. *Building Construction: Planning Techniques and Methods of Construction*, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
- Moxley, R. *Mitchell's Elementary Building Construction*, Technical Press Ltd.
- Rangwala, S.C. *Building Construction* 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. *T.B. of Building Construction* 19th ed. Standard Pub. Delhi, 2003.
- Chowdary, K.P. *Engineering Materials used in India*, 7th ed. Oxford and IBH, New Delhi, 1990.



**Course Title: Technical Drawing**

**Course Code: IS34**

**Course Credit: 2**

**Brief Description of the Course:**

Technical Drawing being the major subject, teaches the aspect of representation of ideas/designs through drawings – the course introduces principles and basics of engineering drawing skills to the students. The basic geometry, projection techniques, and also to interpret the drawings. Introduction to orthographic projections and conventions, use of sections, auxiliary views and developments for basic 3D forms such as Prism, Cone etc.,

**Learning Objectives:**

Technical Drawing will train students to:

- Represent spaces or furniture's using various 2D drawings – Plan , Elevation , Sections
- Represent spaces or furniture's through 3D forms – Isometric and Perspective
- Technically represent an existing object/furniture/space.
- Understanding of Scales – British and Metric
- Partial – Ergonomics and Anthropometry

**Pedagogy:** Demonstrations and instructor led Practical assignments, Drafting Skills, Physical Measuring Techniques

**Course Outline:**

- Introduction to orthographic projections – Geometric objects , Furniture's , Enclosed Spaces
- Introduction to 3D Projections – Isometric and Perspective
- Representation of various materials – Chart with basic representations in plan, elevation and sections – Wood, Glass ,Brick etc.,
- Introduction to Scales – Conversions between British and Metric styles, Reduced, Enlarged Scale representations.
- Introduction to Anthropometry and Ergonomics – Standard sizes, and study of average length, width and height of furniture and other aspects of a space

**References:**

- *Geometry of Design: Studies in Proportion and Composition* by Kimberly Elam Publisher: Princeton Architectural Press, 2001
- *Sacred Geometry: Philosophy and Practice (Art and Imagination)* by Robert Lawlor' Publisher: Thames & Hudson, 1989
- *Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.*

**Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Core Elective**

**Course Code: EL35.1/2/3**

**Course Credit: 1**

**Brief description of the Course:**

A common list of Electives is provided to all the programs of Art and Design. These elective courses focus on the interdisciplinary subjects and digital skills. Based on the need of the program and interest among the individual students these electives are added. Every student has to contact their mentor to choose the electives with the help of faculty guide. These electives are partially taught in the class room, and the rest of the classes are focused by the student research and practice.

**Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Non-core Theory: Science and Society**

**Course Code: University code**

**Course Credit: 2**

As per the University Syllabus

**Year 2 / SEMESTER 3/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: – Workshop / Simple Project**

**Course Code: CC & EC**

**Course Credit: 1**

**Brief description of the Course:**

Suitable Workshop / Activity / Project will be conducted.

**Workshop:** Students will be exposed to an art or craft like terracotta, coconut shell, textile, ceramic, bamboo etc., to get hands on experience and in turn apply the knowledge learnt within their academic curriculums.

**Simple Project:** Students will work in small groups and learn how to approach to simple problems in the system. This project will help them to apply the skills learnt in previous and current semesters.

**Visual Journal writing:** Visual Journal is continuation of the earlier two semesters. But here they use this space more as a diary of a design student for consolidating their ideas through doodles, photographs and writing.

## SEMESTER 4

**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Language - I**

**Course Code: University code**

**Course Credit: 2**

As per the University Syllabus

**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Language - II**

**Course Code: University code**

**Course Credit: 2**

As per the University Syllabus

**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: History of Design (Interior Design-Theory)**

**Course Code: IS41**

**Course Credit: 2**

### **Brief Description of the Course:**

The course emphasizes on developments of interior elements in response to functional, social, religious, aesthetic and environmental factors. The course focuses on the three dimensional forms, plan forms and ornamentation.

### **Learning Objectives:**

History of Design, as a theory subject will:

- Make connection between design and social change, drawing upon key theorists.
- Assess the role of mechanization in the establishment of modern design practice.
- Apply a method of investigation and analysis to the study of designed objects.
- Formulate and critique the Design Classics.
- Demonstrate a basic comprehension of changing values and tastes in the history of design and articulate their contemporary relevance.

**Pedagogy:** Lectures, Seminars, Discussions, Self-directed learning. Faculty led practical and theoretical assignments

### **Course Outline:**

- Elements of style and determinants of Interior environments in Egypt, Mesopotamia, Babylonia, Chinese, Japan, Greece, Rome and Europe in Early Christian, Romanesque, Gothic, Byzantine, Renaissance, Baroque and Rococo periods.
- An overview of Victorian, Elizabethan, art Nouveau arts and crafts, Cubism, surrealism, Romanticism etc. Forces of industrialization in Europe, changes in social structure, production systems, changes in technology and its impact on the life styles, arts and crafts and interior environments.

- Elements of style, interior environment, furniture etc. in Jammu and Kashmir, Southern India, Gujarat, Rajasthan, Himachal Pradesh, states of North eastern India, Maharashtra, Uttar Pradesh, Orissa etc.
- History of modern movement in interior Design and architecture – developments of modern movements – various fields of design affecting interior ambiances directly – international modernism, regionalism and concerns with vernacular etc.
- Designers and their works with respect to interior architecture and interior elements of design. Contemporary expressions of styles and art forms. (Could be part of assignments for students to explore)

### **References:**

- John F. Pile, *A history of interior design, 2nd edition, Laurence King Publishing, 2005.*
- Jeannie Ireland, *History of Interior Design, air child publications, illustrated ed., 2009.*
- Elaine, Michael Dywer, Christopher Mackinnon, Norman A. J. Berisford Denby, *A History of Interior Design, Rhodoc International, 1983.*
- Giedion Sigfried, *Space, Time and Architecture: The growth of a new tradition, 4th ed. Harvard University Press, Cambridge, 1962.*
- Tadgell Christopher, *The History of Architecture in India: From the dawn of civilization to the End of the Raj, Om Book Service, New Delhi, 1990.*
- Rowl Benjamin. *Art and Architecture of India.*
- *Towards Post Modernism by Collins, Michael*
- *Design History a student's hand book – by Conway, Hazel*

**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS  
Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Design Studio: Space & Planning**

**Course Code: IS42**

**Course Credit: 2**

### **Brief Description of the Course:**

Space Planning provides a specific design methodology for understanding the nature of space, scale, functionality aspects, aesthetics aspect and representation of the same in a professional manner.

### **Learning Objectives:**

Design Studio-Space and Planning will:

- Prepare a base for the students to gain an understanding into the fundamental issues of designing spaces and develop the skill to create floor plans considering all the factors affecting spatial composition.
- Assess the role of mechanization in the establishment of contemporary design practice.
- Develop a research and case study methodology amongst students to carry out a brief practice in connection to the typology of projects they would execute.

**Pedagogy:** Instructor led Practical assignments, Drafting Skills, Discussions, and Lectures

### **Course Outline:**

- 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.
- 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.
- Visual analysis and representation of designed spaces noted for comfort and spatial quality; analysis of solid and void relations, positive and negative spaces.

## **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 – Guphill, 1979.
- Karlen Mark, Kate Ruggeri & Peter Hahn, *Space Planning Basics*, Wiley publishers, 2003.
- *The Interior Design, Reference + Specification Book* – Chris Grimley + Mimi Love
- *Kitchen and Bath – Products and Materials-* Ellen Cheever, CMKBD, ASID, CAPS – AKBA
- *Space Planning Basics* – Markkarlen ,Rob Fleming, Wiley

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### **Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

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**Course Title: Interior Design Materials and Applications II– Metal and Glass**

**Course Code: IS43**

**Course Credit: 2**

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## **Brief Description of the Course:**

The course will brief the students on materials and its application in Interiors based on its properties, advantages and disadvantages with a number of site visits and market study.

## **Learning Objectives:**

As Interior and Spatial Designs students, they will be able to:

- Understand the properties of a material and the purpose of application in any given space.
- Communicate with the help of case study, market survey and documenting current prices etc.
- Design an element / furniture with their respective understanding of the material.

**Pedagogy:** Workshops, Group Discussions, Practical assignments, Site Visits and Market Survey

## **Course Outline:**

- Materials to be studied based on – Physical and behavioral properties, tools and technology of its application in the construction of floor, ceiling, wall, doors, windows, staircase, built in furniture, partitions and other interior design components.
- Visual quality of materials in terms of finishes through color, texture, modulations and pattern evolution. Material and workmanship, specification etc.
- Glass and glass products – Composition and fabrication of glass, classification, types of glass- wired glass, fiber glass, rock wool, laminated glass, glass concrete blocks - their properties and uses in construction and aesthetic aspects of interiors and architecture.
- Commercial forms available – their physical and behavioral properties, tools and technology of its application in built forms. Material and workmanship, specifications.
- Types of metals, properties of metals, definitions of terms with reference to properties and uses of metals, various methods of working with metals, fixing and joinery in metals, finishing and treatment of metals., finishes on metals. Standard specifications.
- Metals in built form activity – horizontal, vertical and inclined surfaces – in interior environment elements- products and furniture forms- doors, windows, jalis, railing, stair etc. Metals and other materials – form and joinery.
- Introduction and brief on –

- Adhesives – Natural and Synthetic, their varieties, thermoplastic and thermosetting adhesives, epoxy resin. Method of application, bond strength etc.
- Asphalt and Bitumen – Natural and artificial products, forms of asphalt, emulsion, cement mastic bituminous felt, their properties and uses.

**Note:** Market surveys to be conducted to learn about the commercial and technical names, sizes, wastages, BIS and codes for materials, testing, fabrication, commercial methods of pricing, billing etc.

**References:**

- Bindra, S.P. and Arora, S.P. *Building Construction: Planning Techniques and Methods of Construction*, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
- Moxley, R. *Mitchell's Elementary Building Construction*, Technical Press Ltd.
- Rangwala, S.C. *Building Construction* 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. *T.B. of Building Construction* 19th ed. Standard Pub. Delhi, 2003.
- Chowdary, K.P. *Engineering Materials used in India*, 7th ed. Oxford and IBH, New Delhi, 1990. Rangwala, S.C. *Building Construction: Materials and types of Construction*, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
- Francis D. Ching, *Building Construction Illustrated*, Wiley publishers, 2008.

**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**  
**Course Title: Architectural Elements and Services**

**Course Code: IS44**

**Course Credit: 1**

**Brief Description of the Course:**

This course will help introduce the interconnectivity between Architecture and Interior-Spatial Design with respect to the various elements common amongst both – Door/Window/Staircase/Roof/Floor

**Learning Objectives:**

Architectural Elements and Services will:

- Prepare a base for the students to gain an understanding into the fundamental and functional aspects of architectural elements with respect to interiors
- Prepare students to understand the basics of Column Beam Structure and the fundamentals of modifying the same with respect to interior and spatial design
- Develop the basics required with respect to services such as – Electrical, Plumbing, Acoustics, Fire and Lighting.

**Pedagogy:** Instructor led Practical assignments-Model, Drafting, Discussions, and Lectures

**Course Outline:**

- Basic styles – Door, Window, Roof, Floor, Staircase – Presentations and drafting or modeling of few styles within a given space
- Understanding the load bearing and non-load bearing wall structures, and modifications required or planned for an interior space.
- Workshops and practical site visits to understand the momentous of Electrical Layout, Plumbing Layout, Acoustics, Fire and Lighting in Interiors

**References:**

- Karlen Mark, *Space planning Basics*, Van Nostrand Reinhold, New York, 1992.
- Francis D K Ching- *Building Construction Illustrated* –Wiley
- *Materiality and Interior Construction* – Gesimondo. Jim Postell *Sustainable living – Green Design ; Designerbooks*

- *Ceramic faults and their remedies – Harry Fraser*
- *Designing with Light – The Art, Science and Practice of Architectural Lighting Design – Jason Livingston*

**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Core Elective**

**Course Code: EL45.1/2/3**

**Course Credit: 1**

**Brief description of the Course:**

A common list of Electives is provided to all the programs of Art and Design. These elective courses focus on the interdisciplinary subjects and digital skills. Based on the need of the program and interest among the individual students these electives are added. Every student has to contact their mentor to choose the electives with the help of faculty guide. These electives are partially taught in the class room, and the rest of the classes are focused by the student research and practice.

**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Digital Visualization: 1**

**Course Code: IS46**

**Course Credit: 1**

**Brief Description of the Course:**

This course will introduce 2D CAD software for users who require comprehensive training. The objective of training students through CAD is to enable them to create a basic 2D and 3D drawings at a faster speed compared to drafting. This knowledge of Computer based visualization helps students in sketching, testing, rendering and design control drawing (DCD). The basic skills and knowledge in this course presents baseline software platforms from which students will continue to build-upon and use it throughout their education.

**Learning Objectives:**

Digital Visualization: 1, will guide students to:

- Understand and define the fundamentals of CAD and the application of Tools.
- Create completely dimensioned sectional and assembly technical drawings of a space or furniture.
- Draft 2D Plan, Elevation and Sections along with 3D –Isometric and Perspective views.
- Create local and write blocks for easy access and copy paste methods.
- Work with complicated CAD drawings using External Reference, Layout and Table settings, Layer properties, Dimension, Hatch and Text properties.

**Pedagogy:** Computer based demonstrations with maximum practice sessions /lab hours for students

**Course Outline:**

- Understanding the CAD work space and user interface.
- Producing basic shapes and forms.
- Using basic drawing, editing, and viewing tools; organizing drawing objects on layers; inserting reusable symbols (blocks)
- Preparing a layout to be plotted; adding text, hatching, and dimensions.
- Using more advanced editing and construction techniques.
- Adding parametric constraints to objects.

**References:**

- *Computer Aided Design and Manufacturing By M.M.M. SARCAR, K. MALLIKARJUNA RAO, K. LALIT NARAYAN*

- *Fundamentals of Computer Aided Geometric Design* by Josef Hoschek, Dieter Lasser Peters, 1993
- *Handbook of Computer Aided Geometric Design* edited by Gerald E. Farin, Josef Hoschek, Myung-Soo Kim

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**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Non-core Theory: Life skill and Personality Development**

**Course Code: University code**

**Course Credit: 2**

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As per the University Syllabus

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**Year 2 / SEMESTER 4/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: – Workshop / Simple Project**

**Course Code: CC & EC**

**Course Credit: 1**

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**Brief description of the Course:**

Suitable Workshop / Activity / Project will be conducted.

**Workshop:** Students will be exposed to an art or craft like terracotta, coconut shell, textile, ceramic, bamboo etc., to get hands on experience and in turn apply the knowledge learnt within their academic curriculums.

**Simple Project:** Students will work in small groups and learn how to approach to simple problems in the system. This project will help them to apply the skills learnt in previous and current semesters.

**Visual Journal writing:** Visual Journal is continuation of the earlier two semesters. But here they use this space more as a diary of a design student for consolidating their ideas through doodles, photographs and writing.



# YEAR 3 / SEMESTER 5

*Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS*

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Environmental Control (Theory)**

**Course Code: IS51**

**Course Credit: 2**

## **Brief Description of the Course:**

This course is intended to study Acoustics and Lighting as determinants of built form with an emphasis on the application to the Interior spaces.

## **Learning Objectives:**

Environmental Control, as a theory subject will:

- Enforce skills to deal with acoustic and lighting problems within various spaces.
- Enforce knowledge that enables to deal effectively with specialists and consultants in acoustics and lighting.
- Help in understanding and implementing the type of light with respect to the nature of space.

**Pedagogy:** Lectures, Seminars, Discussions, Self-directed learning, Faculty led practical and theoretical assignments

## **Course Outline:**

- Need to study acoustics, methods used for good acoustics. Basic theory: Generation, propagation, transmission, reception of sound: Frequency, wave length and velocity of sound, sound intensity, inverse square law, and Decibel scale.
- Speech privacy and annoyance, background noise. Communication in open plans, electronic sound systems, loud speaker layout. Room acoustics: Behaviour of sound in enclosed spaces. Ray-diagrams, sound paths, effect of geometry and shapes, sound absorption, sound absorption coefficients, Sabine's formula, reverberation and resonant panels.
- Acoustic Design process and different types of buildings – auditoriums, concert halls, cinema halls, seminar rooms, lecture halls, classroom and open offices. Noise reduction, sound isolation, transmission loss. TL for walls, sound leaks in doors, noise reduction between rooms, construction details for noise reduction. Noise reduction and built form. Noise reduction from mechanical equipment. Rubber mounts, vibration isolation guidelines, characteristics of duct system, noise in AC ducts, vibration isolation of pumps and generators.
- Introduction – Lighting and vision, basic units, photometry and measurement. Effects of good lighting, considerations for good lighting, brightness, glare, contrast and diffusion. Economic issues of lighting.
- Quality and quantity of different sources of light – daylight, incandescent, fluorescent, halogen, electric gas discharge high discharge, neon, cold cathode, mercury, sodium vapour etc. lighting levels, visual field. Survey of lamps available in the market with cost and technical specifications.
- Day light – advantages, admitting daylight, controlling daylight – multiple glazing, orientation, window treatments, potentials of day lighting as an energy resource.
- Artificial lighting - colour characteristics of artificial lighting, integration of day lighting with artificial lighting, lighting controls, intelligent building systems for lighting, switches, dimmers.
- Planning lighting – general aims, lighting needs, calculation of lighting levels, intensity levels, energy and installation costs and other factors, selection of fixtures, location and placing of fixtures.
- Lamps and lighting fixtures – Floor, table and desk, wall mounted, ceiling units, built in lighting, miscellaneous types, decorative lighting, spot lighting, task lighting, underwater lighting etc.

**Note:** Detailed acoustic design and lighting should be done for any one type of building along with observations of any one Natural Lighting space and a report on the same.

**References:**

- Poella . L. Leslie, *Environmental Acoustics*.
- Moore J.E. , *Design of good acoustics, The architectural press, London, 1961*.
- Burris, Harold, *Acoustics for Architect*.
- Lord, Peter and Tempelton, Duncan, *The Architecture of sound, . ; Designing places of Assembly , Architectural press ltd, London, 1986*.
- Egan David, *Architectural acoustics, Mc-Graw Hill Book company, New york, 1988*.
- John.F. Pile, *Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995*.
- Wanda jankowski, *Lighting : In Architecture and Interior Design, pbc intl, 1995*.
- Moore Fuller, *Concepts and practice of Architectural Day lighting, Van Nostrand Reinhold co., New York, 1985*.
- David Egan. M. *Concepts in Architectural lighting Mcgraw Hill Book Company, New York, 1983*.

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Interior Design Studio II - Inhabitations**

**Course Code: IS52**

**Course Credit: 4**

**Brief Description of the Course:**

This course is intended to provide skills for designing medium scale interior spaces. It will help to develop creative conceptual visualization, hand skill building, and the process of design. Further emphasis on graphic layout and elevations as a design process.

**Learning Objectives:**

Interior Design Studio-II Inhabitations will:

- Prepare a standard with representation of designs and ideas with the support of technical drawings and 3D Visualizations.
- Guide in use of standards, functions of spaces and application of knowledge gained from other subjects, in design.

**Pedagogy:** Instructor led Practical assignments, Digital Drafting Skills, Case Studies, Model Making, and Research Methodology Techniques.

**Course Outline:**

- Space planning process (block diagram, concept statement) ;Furniture detailing
- Structural integration with reference to Interiors
- Material board ;Mood board; Color selection
- Digital Rendering and 3D physical models
- Design Process/methodology Creativity /originality/ Concepts sketching
- Documenting space (sketch and photo documentation)
- Graphic design (page layout and composition) and Portfolio development
- Application of design principles and elements

**The list of suggested topics to be covered as design problems:**

- Design of living units of various geographical locations and culture by involving historical periods, styles and use of craft in its inherent quality and form – craft and living environment.
- Applications of art / craft at public level spaces- *lounge (hotel), restaurant of specific ethnic characteristics, café, boutique, retail stores, studios*.

- Response to today's situation of urban society – For a given space /building/structure– refurbish to a different typology.

**Note:** One major project and two minor design/time solving problems should be incorporated.

**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 – Guphill, 1979.
- Karlen Mark, Kate Ruggeri & Peter Hahn, *Space Planning Basics*, Wiley publishers, 2003.
- *The Interior Design, Reference + Specification Book* – Chris Grimley + Mimi Love
- *Kitchen and Bath – Products and Materials-* Ellen Cheever, CMKBD, ASID, CAPS –AKBA
- *Space Planning Basics* – Markkarlen ,Rob Fleming, Wiley Sustainable Residential Interiors-Annette K Stelmack – Associate

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: User Element Design**

**Course Code: IS53**

**Course Credit: 3**

**Brief Description of the Course:**

The course provides a framework in understanding the socio-cultural and historical aspects that influence the design of elements based on their life style and functionality. Course enhances the aesthetic perception, materials, design and working parameters in designing specific element/product/furniture/accessory. Develops systematic design approach and integration of designed accessories with the interior space.

**Learning Objectives:**

User Element Design will:

- Prepare the student for mass production of décor elements and products for various life styles of people with the parameters of economy.
- Guide them through the functionality aspects of designing an element along with the overall aesthetic aspects within a given space and enhance the complete experience.

**Pedagogy:** Instructor led Practical assignments, Case Studies, Model Making, Systematic approach of element design.

**Course Outline:**

- Role and integration of accessories/products in interiors. Design approaches in product and lifestyle accessories design with a focus on functionality, ergonomics, aesthetics, multiple usages etc.
- Stylistic development of decorative accessories from the past to present with insight into technological advances and the influences of social, economic and political factors.
- Brief study of period room settings with the context of decorative accessories complementing the architecture and interior design.
- Study of materials and processes adopted in accessories design. Basic understanding of construction principles, anthropometrics, principles of sizes and proportions, modelling, rapid prototyping, colour, texture etc. Orientation to Indian as well as global context of interiors, trends and market.
- A detailed study involving all the design aspects of any of the following lifestyle accessories: luminaire design, glassware, lighting, textiles, mirrors, clocks, wall finishes, multipurpose furniture etc.,

**Note:** At least one major project and a minor design/time solving problems should be incorporated.

**References:**

- K Laura Slack, *What is product Design?* Roto Vision publishers, 2006
- Treena Crochet and David Vleck, *Designer's Guide to Decorative Accessories*, Prentice Hall, 1st edition, 2008.
- Michael Ashby, Kara Johnson, *Materials and Design: The Art and Science of material selection in product design*, Butter Worth Heinemann, 1st edition, 2002.
- *International Design Yearbook, 1995: Furniture, Lighting, Tableware, Textiles and Products*, Books Nippan, 1996.
- Karl. T. Ulrich, Steven D. Eppinger, *Product Design and Development*, McGraw-Hill Education Singapore; 4th edition, 2007
- William Lidwell, Kritina Holden, Jill Butler, *Universal principles of Design*, Rockport publishers, 2003.

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Working Drawing Details**

**Course Code: IS54**

**Course Credit: 2**

**Brief Description of the Course:**

The focus of the course is to impart skills related to the preparation of drawings meant for execution on site. It will also train students to read and draft Architectural Drawings for better understanding and planning of Interior spaces.

**Learning Objectives:**

Working Drawing Details, will:

- Prepare students to generate technical presentation of design at built form level, finishing level, product and furniture level.
- Train students to draft both manually and software based methods of representation of various aspects/elements with relation to Interior spaces.

**Pedagogy:** Practical assignments-Measured Drawings, Drafting Skills

**Course Outline:**

- Preparation of plans – Architectural plans, furniture layout floor plans with clearances, different level floor plans, and detailed floor plans of each room.
- Elevations and Sections – Detailed sectional elevations of all the walls in the interior with all the required dimensions, material specifications and technical details where so ever required.
- Emphasis of the course will be on details of all services – layouts for flooring, ceiling, electrical, plumbing, lighting, firefighting etc., *toilet details, kitchen details, staircase details, furniture details,, material, colour and texture details, fixing and joinery details.*
- Specifications writing: Writing detailed clause by clause specifications for materials pre and post execution, tests, mode of measurements, manufacturer's details and specifications etc.

**Note:** Students will prepare at least two complete working drawing sets for execution level.

**References:**

- Leibing. W. Ralph, *Architectural Working Drawings*, 4th edition, John wiley and sons, New York, 1999.
- Macey. W. Frank, *Specification in detail*, 5th edition, Technical press Ltd, London, 1955.
- Shah, M.G.; and others, *Building Drawing: An integrated approach to build environment*, 3rd ed, Tata McGraw Hill Pub. Co. Ltd, New Delhi, 1996.

- *Fredd Stitt, Working Drawing Manual, McGraw-Hill Professional; 1st edition, 1998.*
- *Kilmer, Workind Drawings and Details for Interiors, John Wiley and Sons*

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Core Elective**

**Course Code: EL55.1/2/3**

**Course Credit: 2**

**Brief description of the Course:**

A common list of Electives is provided to all the programs of Art and Design. These elective courses focus on the interdisciplinary subjects and digital skills. Based on the need of the program and interest among the individual students these electives are added. Every student has to contact their mentor to choose the electives with the help of faculty guide. These electives are partially taught in the class room, and the rest of the classes are focused by the student research and practice.

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Workshop - Textiles**

**Course Code: IS56**

**Course Credit: 2**

**Brief Description of the Course:**

The course will emphasize on the art of implementation or use of various fabrics/textiles to enhance the aesthetics of an interior space.

**Learning Objectives:**

Workshop - Textiles, will:

- Prepare students to understand the momentous of a textile usage in a space and implementing the knowledge on a practical assignment
- Help students to obtain hands on experience with various fabrics, understanding the material characteristics along with color combination and innovative usage within interior spaces.

**Pedagogy:** Practical assignments, Workshop led learning

**Course Outline:**

- Exploring various textiles – Acetate, Batik, Brocade, Cashmere, Chiffon, Cotton, Damask, Jacquard, Jute, Linen, Muslin, Rayon, Satin, Silk, Velvet, Wool
- Understanding the vast aspects/advantages/disadvantages of using textiles for both functional and gracefully aesthetic purpose.

**Note:** Students will prepare a material board/sample board with the learning.

**References:**

- <https://youqueen.com/life/textiles-in-interiors/>

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Advanced Visualization Methods: 1**

**Course Code: IS57**

**Course Credit: 2**

**Brief Description of the Course:**

This course provides a basic understanding of how to model, modify, and present conceptual designs using 3D software. Building three-dimensional models to aid in the visualization of designs from all drafting disciplines is an important aspect of a project.

**Learning Objectives:**

Advanced Visualization Methods: 1, will

- Prepare students to create, modify, and present conceptual designs in 3D modeling.
- Helps student to visualize through material application over the models created.

**Pedagogy:** Computer based demonstrations with maximum practice sessions /lab hours for students

**Course Outline:**

- Exploring and understanding the basic Unit setup, Grid and snap setting, Interface, Create-Hierarchy-Display, Modify, Motion and Utility Panels, Viewport settings.
- Introduction to Material application and editor.

**Note:** Students will practice on creating various shapes and objects with basic material application in the course in particular.

**References:**

- *Computer Aided Design and Manufacturing* By M.M.M. SARCAR, K. MALLIKARJUNA RAO, K. LALIT NARAYAN
- *Fundamentals of Computer Aided Geometric Design* by Josef Hoschek, Dieter Lasser Peters, 1993
- *Handbook of Computer Aided Geometric Design* edited by Gerald E. Farin, Josef Hoschek, Myung-Soo Ki

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Non-core Theory: Banking and Finance**

**Course Code: University code**

**Course Credit: 2**

As per the University Syllabus

**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Project**

**Course Code: CC/EC**

**Course Credit: 1**

**Simple Project:** Students will work in small groups and learn how to approach to simple problems in the system. This project will help them to apply the skills learnt in previous and current semesters.

# YEAR 3 / SEMESTER 6

Year 3 / SEMESTER 6/ SPECIALIZATION SYLLABUS

Program: B.V.A / B.Des Interior and Spatial Design

Course Title: Estimation and Project Management (Theory)

Course Code: IS61

Course Credit: 2

## **Brief Description of the Course:**

This course is intended to study methods for working out quantities and costs to make an estimate of the project with all specifications along with management of the projects based on time and budget. The course will guide students in preparation of schedule of charts for time and budget, to have a control over a project.

## **Learning Objectives:**

Estimation and Project Management, as a theory subject will:

- Help student to develop techniques of Estimating and costing related to the interior projects.
- Enforce a practice in preparing schedules of time and budget for projects to execute efficiently.

**Pedagogy:** Lectures, Seminars, Group Discussions, Faculty led practical and theoretical assignments

## **Course Outline:**

- Types of measurements, modes of measurements: methods of taking out quantities preparation of schedule or bill of quantities.
- Rate analysis of various items of work: preparation of various items of work in the interior works.
- SI measurements system, SI nomenclature methods. Dimensional and modular coordination, modules and modes of measurements practiced by various agencies. Specification types, specification contents, standards developed by trade and industry, government agencies.
- Estimating interior items manually and through spreadsheet programmes. Specification writing, order writing, scheduling etc.
- Introduction to project management – Definition and meaning, Importance, Reasons or shortfall in its performance, scientific management, life cycle of project.
- Planning and control, Human aspects, Development of project network. Critical path, PERT and CPM. Project organization. Contracting, Procurement and Recruitment budget and fund flow statement. Stabilization and finish.
- Project management strategies: Tools and techniques for project management. Classical persuasive and non-persuasive strategies and techniques. New techniques of management by objectives. Integrated reporting system, flow diagrams, bar charts, milestone charts, CPM and PERT.
- Techniques of monitoring the development of work – standard oriented costs control, turnkey system, vertical production method, inventory cost control techniques and unified status, index techniques.

**Note:** Students are expected to submit a BOQ of any one element/furniture/space from their Studio Project

## **References:**

- Carol Simpson, *Estimating for Interior Designers*, Watson Guptill, Rev. Sub edition, 2001.
- Carol E Farren, *Planning and Managing Interior projects*, Robert Snow Means Company, 2000.
- Barbori Balboni, *Interior Cost Data*, R.S. Means Company, 2001.
- Harold Kerzner, *Project Management : A systems approach to planning, scheduling and controlling*, 2006

**Brief Description of the Course:**

This course is intended to provide skills for designing interior spaces with emphasis on transformation and adaptive re-use as one of the important aspects in interior design. Scale of the project will be larger than the medium scale, of an Institutional zone preferably.

**Learning Objectives:**

Interior Design Studio-III-(Institutions) will:

- Guide students to deal and manage with large scale projects, which would emphasize on public zoning and space planning techniques.
- Guide in use of standards, transformation of spaces for reuse and application of knowledge gained from other subjects, in design.

**Pedagogy:** Instructor led Practical assignments, Digital Drafting Skills, Case Studies and Survey's, Model Making

**Course Outline:**

- The primary focus will be on: Space planning process (Conceptual and Technical); Furniture detailing; Introduction to building codes; Signage and graphics (Way finding); Universal and accessible Design with importance to differently abled aspect of the society.
- Materials, furniture detailing and finish selections with significance to aesthetics along with ergonomics and human factors.

**The list of suggested topics to be covered as design problems:**

- Institutional spaces in urban, semi-urban and rural contexts with an aim to explore and understand transformation and adaptive re-use of spaces.
- Historic and abandoned sites provide scope for rejuvenation through multi-dimensional programs covering functions like museums, cultural and resource centres, libraries, convention centres, exhibitions etc. that also aim in making a social contribution.
- Recreational spaces such as auditoriums, halls, cinema houses, stage design etc. Knowledge of audio visual communication, colour and light interaction, sound control system, design of interior elements, products and furniture forms.
- Design issues in addition to the primary focus for the above are statement of institution character through interior environment responses to site and context, integration of interior architectural elements to other interior elements, dialogue between the existing and the newly added insert, interpretation of institutional activities and their spatial correlation.

**Note:** One major project and two minor design/time solving problems should be incorporated.

**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 – Guphill, 1979.



- Maureen Mitton, *Interior Design Visual Presentation: A Guide to Graphics, Models, and Presentation Techniques*. John Wiley and Sons, 2003
- Mark.W. Lin, *Drawing and Designing with Confidence: A step-by-step guide*, Wiley and Sons, 1993.
- Robert Rengel, *Shaping Interior Space*, Fairchild Books & Visuals, 2002
- Neufert Ernest, *Architect's Data*, Granada pub. Ltd. London, 2000.
- Maryrose McGowan & Kelsey Kruse, *Interior Graphic Standards*, Wiley and sons, 2004.
- Robert F. Erlandson, *Universal and Accessible Design for Products, Services, and Processes*, CRC; 1st edition, 2007.
- Oliver Herwig & L. Bruce, *Universal Design: Solutions for Barrier-free*, Birkhäuser Basel; 1st edition, 2008

**Year 3 / SEMESTER 6/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Complex Furniture Systems**

**Course Code: IS63**

**Course Credit: 2**

**Brief Description of the Course:**

The course provides a framework to analyze and design furniture forms scientifically and sensitizes the student's visual perception of furniture as a single form and also as a system in a given interior space. Modular furniture system shall be part of the course.

**Learning Objectives:**

Complex Furniture System, will:

- Prepare the student for mass production of furniture for various classes of people with the parameters of economy and culture.
- Guide students in the modular aspect of furniture / product design and implement the multi-functional criteria of the current economic requirement.

**Pedagogy:** Instructor led Practical assignments, Case Studies and Survey's, Proto typing

**Course Outline:**

- Furniture categories, exploration of the idea of furniture, role of furniture in interior design, Design approaches in furniture design.
- A complete furniture design combo (Collection) of either – Office / Kitchen / Retail Stores / Institutional /

**The list of suggested topics to be covered as design problems:**

- Brief overview of the evolution of furniture from Ancient to present: Various stylistic transformations. Furniture designers and movements. Analysis of furniture in terms of human values, social conditions, technology and design criteria.
- Functional and formal issues in design: study and evaluation of popular dictums such as "Form follows function", "Form and function are one"
- Human factors, engineering and ergonomic considerations: principles of universal design and their application in furniture design.
- An introduction of various manufacturing processes most frequently adopted in furniture design such as Injection Moulding, investment casting, sheet metal work, die casting, blow- moulding, vacuum - forming etc.
- Design with wood, metal and combination of materials. Drawings, details and prototype making. Market survey of available products and economics of products.
- 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.
- Modular approach to furniture design – various materials, combination of materials and its application – design parameters, ergonomics etc. Drawings and prototype. Survey of several modular systems available for

different functions in the market. Exploration of wood, metal, glass, plastics, FRP as materials for system design. Cost criteria of furniture design.

### **References:**

- Joseph Aronson, *The Encyclopedia of Furniture: Third Edition*, 1961
- Bradley Quinn, *Mid-Century Modern: Interiors, Furniture, Design Details, Conran Octopus Interiors*, 2006.
- Jim Postell, *Furniture Design*, Wiley publishers, 2007.
- Edward Lucie-Smith, *Furniture: A Concise History (World of Art)*, Thames and Hudson, 1985
- Robbie. G. Blakemore, *History of Interior Design and Furniture: From Ancient Egypt to Nineteenth-Century Europe*, Wiley publishers, 2005.
- John.F. Pile, *Interior Design*, 2nd edition, illustrated, H.N.Abrams, 1995.

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**Year 3 / SEMESTER 6/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

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**Course Title: Landscape**

**Course Code: IS64**

**Course Credit: 2**

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### **Brief Description of the Course:**

This course introduces students to the knowledge of landscaping design parameters, landscape elements, plant materials etc. to use in the interiors effectively for aesthetic enhancement and visual comfort.

### **Learning Objectives:**

Landscape, as a workshop or practical oriented subject will:

- Guide students to develop the skill of using and integrating landscape elements and plants to transform different spaces through interior landscaping.

**Pedagogy:** Lectures, Case Study's, Group Discussions, Field visit, Faculty led practical assignments

### **Course Outline:**

- Introduction to landscape architecture and role of landscaping design in the built environment. Types of natural elements – stones, rocks, pebbles, water forms, plants and vegetation.
- Introduction to study of plants in relation to landscape design and interiors. Types of indoor plants.
- Growing medium, pests & diseases. Botanical nomenclature, anatomy and physiology of plant growth. Indoor plants in Indian context. Market survey and costs.
- 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. Design concepts related to use of sculpture, lightings, garden furniture, architectural feature and grouping them into meaningful compositions for visual and functional effects.
- 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- colour, texture, foliage. Science of maintaining and growing greenery. Flowers- its colours, texture and its visual perception in various indoor spaces and science of floral arrangement. Automatic irrigation costing and installation of micro irrigation systems
- Concept of bonsai and relation between hardscape-landscape as a whole and its importance and enhancement in a given space.

### **References:**

- Laurie, Michael, *An Introduction to Landscape*. 2nd edition, Prentice Hall, New Jersey, 1986.

- Trivedi. P.Prathiba. *Beautiful Shrubs*. Indian council of Agricultural Research. New Delhi, 1990.
- Hacheat, Blan. *Plant Design*.
- Gerald Robert Vizenor , *A Guide to Interior Landscapes*, Univ of Minnesota Press, 1990.
- Nelson Hammer and Mel Green, *Interior Landscape Design*, Mc Graw Hill, 1991.

**Year 3 / SEMESTER 6/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Core Elective**

**Course Code: EL65.1/2/3**

**Course Credit: 2**

**Brief description of the Course:**

A common list of Electives is provided to all the programs of Art and Design. These elective courses focus on the interdisciplinary subjects and digital skills. Based on the need of the program and interest among the individual students these electives are added. Every student has to contact their mentor to choose the electives with the help of faculty guide. These electives are partially taught in the class room, and the rest of the classes are focused by the student research and practice.

**Year 3 / SEMESTER 6/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Signage and Graphics**

**Course Code: IS66**

**Course Credit: 2**

**Brief Description of the Course:**

Graphics and Signage provides a framework for the development of a systematic, visually cohesive graphic communication system for a given site in the built environment. It sensitizes the students to visual aspects of way finding and shaping the idea of place.

**Learning Objectives:**

Signage and Graphics as a practical subject will:

- Prepare ground for the student to gain an understanding into the practical design problems related to way finding and develop the skill to create various types of signage and wayfinding systems in the built environment.

**Pedagogy:** Lectures, Case Study's, Group Discussions, Field visit, Faculty led practical assignments

**Course Outline:**

- Introduction – environmental graphic design methods, way finding, requirement and importance.
- Information content system – kinds of sign information, hierarchy of content, developing the sign information content, Navigation – message hierarchy and proximity, Other factors affecting sign information content, pictorial information content, signage master plans.
- Signage Planning – contract, obtaining information, preliminary design, design, construction, work plan and prototypes, tenders, specifications, on-site management, completion.
- Signage Design – Eyelevel, light, fonts, typographical systems and type area, pictograms, arrows, colour – contrast, language, systems, tones, coding, privacy and protection, Room identification.
- The Graphic system - Typography overview, choosing a typeface, typographic treatment, typographic considerations in signage for non-sighted and low sighted people, symbols and arrows, other graphic elements, colour, layout, overview of signage graphic process.

- The hardware system – shape, connotations of form, sign mounting considerations, sign size considerations, sign lighting overview, sign materials overview, basic sign materials, electronic message displays, stock sign hardware systems, sign materials and codes, overview of coatings and finishes applied to signs.

**References:**

- Laurie, Michael, *An Introduction to Landscape*. 2nd edition, Prentice Hall, New Jersey, 1986.
- Trivedi. P.Prathiba. *Beautiful Shrubs*. Indian council of Agricultural Research. New Delhi, 1990.
- Hacheat, Blan. *Plant Design*.
- Gerald Robert Vizenor , *A Guide to Interior Landscapes*, Univ of Minnesota Press, 1990.
- Nelson Hammer and Mel Green, *Interior Landscape Design*, Mc Graw Hill, 1991.

**Year 3 / SEMESTER 6/ SPECIALIZATION SYLLABUS**

**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Advanced Visualization Methods: 2**

**Course Code: IS67**

**Course Credit: 2**

**Brief Description of the Course:**

This course will be a continuation from the previous semester and will help students to explore 3D software in detail for rendered outputs.

**Learning Objectives:**

Advanced Visualization Methods: 2, will:

- Prepare students to present realistic 3D outputs along with working on different formats and importing from other software extensions.
- Train students to apply actual materials on the models prepared and render through application of VRAY along with a knowledge to create walk through.

**Pedagogy:** Computer based demonstrations with maximum practice sessions /lab hours for students

**Course Outline:**

- Explore how to create and modify both solid and surface models. Learn how to present designs while they are still being created, using visualization tools such as visual styles, walk through animation, materials, and light settings.
- Interior modeling, material creation, lighting, and rendering will be the topmost priority to learn and apply.

**Note:** Students will practice on creating high resolution rendered outputs of interior spaces along with a short walk through animation.

**References:**

- *Computer Aided Design and Manufacturing* By M.M.M. SARCAR, K. MALLIKARJUNA RAO, K. LALIT NARAYAN
- *Fundamentals of Computer Aided Geometric Design* by Josef Hoschek, Dieter Lasser Peters, 1993
- *Handbook of Computer Aided Geometric Design* edited by Gerald E. Farin, Josef Hoschek, Myung-Soo Ki

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**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

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**Course Title: Non-core Theory: Entrepreneurship and Innovation**

**Course Code: University code**

**Course Credit: 2**

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As per the University Syllabus

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**Year 3 / SEMESTER 5/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

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**Course Title: Project**

**Course Code: CC/EC**

**Course Credit: 1**

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**Simple Project:** Students will work in small groups and learn how to approach to simple problems in the system. This project will help them to apply the skills learnt in previous and current semesters.

## YEAR 4 / SEMESTER 7

Year 4 / SEMESTER 7/ SPECIALIZATION SYLLABUS

Program: B.V.A / B.Des Interior and Spatial Design

Course Title: Sustainable Practices in Design

Course Code: IS71

Course Credit: 6

### **Brief Description of the Course:**

This course will introduce students to various sources of materials which are ecofriendly. Research will be another major criteria of conducting this subject. As Designers it also adds on a responsibility to maintain the eco system with not just good designs but also to make sustainable material choices in real practice. Students will be required to produce a project feasibility report for the specific design undertaken in the design

### **Learning Objectives:**

Sustainable Practices in Design, will:

- Prepare students to explore the nature of various ecofriendly materials available in the market and its application in a given space.
- Guide students to use certain sustainable materials in the maximum possible way through aesthetic and functional aspects and maintain the balance of eco system as designers.

**Pedagogy:** Site Visits, Material exploration and innovation methodology's, Faculty led practical assignments

### **Course Outline:**

- Students will study about various range of GSFT (Green Sustainable and Fair Trade) products that are currently in the marketplace which would including fabrics, window treatments, surface materials, flooring, walls and ceilings.
- They should be able to design a simple product/element within Interior space as application of materials and prototype the same.
- Students will be dealing with sustainable design principles common to a built space as a whole and learn the concept of introducing healthy environment.
- The course will include a small scale project as exclusively based on the sustainable materials as a theme with the support system of other materials to add on.

### **References:**

- *Sustainable Residential Interiors – Annette K Stelmack ;Associates II :Kari Foster,Debbie Hindman – Second Edition – ASID*
- *Sustainable Living – Green Design-Designerbooks*

**Year 4 / SEMESTER 7/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Portfolio Development**

**Course Code: IS72**

**Course Credit: 2**

**Brief Description of the Course:**

This course will introduce students to prepare their academic portfolio for their internship.

**Learning Objectives:**

Portfolio development, will:

- Prepare students to explore various technical aspects or skills required to build a strong portfolio and prepare themselves for industry exposure.

**Pedagogy:** Faculty led practical assignments, Discussions

**Course Outline:**

- Students will understand and work towards the importance of developing a strong and creative portfolio for their internship and future job perspective.

**References:**

- *Portfolios of alumni's ; Best design portfolios and blogs*

**Year 4 / SEMESTER 7/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Interior Design Studio IV**

**Course Code: IS73**

**Course Credit: 10**

**Brief Description of the Course:**

This course is intended to enhance skills for designing interior spaces with emphasis on refurbishing and adaptive re-use as one of the important aspects in interior design. A live site or space will be base and students will be expected to refurbish the whole space into a complete different typology without disturbing the essence of the building.

**Learning Objectives:**

Interior Design Studio-IV-(Mixed Typology) will:

- Guide students to deal and manage with large scale projects, which would emphasize on public zoning and space planning with keen detailing of Interior environment aspect.
- Develop the skill of design vocabulary, enhancement and sensitization of student in design preparation and its relation to tradition, culture, behavior patterns, use of space etc.

**Pedagogy:** Instructor led Practical assignments, Case Studies and Survey's,

**Course Outline:**

- The primary focus should be on – Interior Construction Detailing, Specification Writing, Cost estimating, Selection of sustainable/green materials.

- Dealing with customer satisfaction of a given zone, since they will be designing it for a majority of public specific spaces.

**The list of suggested topics to be covered as design problems:**

- Hospitality Design, Retail Design, Healthcare Design and Office systems
- Urban Interiors – Shopping malls, streets, Town squares, Fair grounds
- Interior Ports – Airports, Bus stops, Railway stations, boats/ports
- Exhibition displays – urban level and National level.
- Mobile units – buses, cars, railway coaches etc.

**Note:** One major project and two minor design/time solving problems should be incorporated.

**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 – Gupstill, 1979.

**Year 4 / SEMESTER 7/ SPECIALIZATION SYLLABUS  
Program: B.V.A / B.Des Interior and Spatial Design**

**Course Title: Design Thesis (Dissertation)**

**Course Code: IS74**

**Course Credit: 6**

**Brief Description of the Course:**

Thesis should reflect on the knowledge gained from all the courses undertaken by the student in all the previous semesters. And the dissertation topic will be chosen with a specific outcome requirement.

**Learning Objectives:**

Design Thesis, as a dissertation will:

- Be able comprehend the design philosophy, theories, data collection and analysis and application in a chosen area of study.
- Guide students in Report making methodologies and presentation of collected data in a systematic manner for clear understanding.

**Pedagogy:** Research Methodology, Case Studies and Survey's,

**Course Outline:**

- Each student is expected to prepare a design thesis based on the topic chosen under an approved guide or mentor.
- Thesis should reflect the knowledge gained from all the courses undertaken by the student in all the previous semesters.
- The particulars of the schedule, content, presentation, format etc. is to be decided by the department from time to time and will be strictly followed.
- At the end of the semester each student is expected to submit all original drawings prepared as per the department specifications. Three copies of the report/dissertation in the specified format should be submitted to the department after the approval of the respective guides.



- The department will schedule the viva voce at its convenience only after the receipt of the thesis by the student. The performance sheet submitted by the guide and thesis committee should be the basis for allowing the student to appear for the final viva voce.
- The end exam is to be conducted by a jury comprising of an external examiner. One internal examiner and head of the department or his nominee.
- Plagiarism check will be undertaken before the internal submissions.

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**Year 4 / SEMESTER 7/ SPECIALIZATION SYLLABUS**  
**Program: B.V.A / B.Des Interior and Spatial Design**

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**Course Title: Core Elective**

**Course Code: EL75.1/2/3**

**Course Credit: 2**

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**Brief description of the Course:**

A common list of Electives is provided to all the programs of Art and Design. These elective courses focus on the interdisciplinary subjects and digital skills. Based on the need of the program and interest among the individual students these electives are added. Every student has to contact their mentor to choose the electives with the help of faculty guide. These electives are partially taught in the class room, and the rest of the classes are focused by the student research and practice.

## YEAR 4 / SEMESTER 8

*Year 4 / SEMESTER 8/ SPECIALIZATION SYLLABUS*  
Program: B.V.A / B.Des Interior and Spatial Design  
Course Title: Graduation Project (Practical)

Course Code: IS81

Course Credit: 16

### **Brief Description of the Course:**

The emphasis of the project will be on the individually planned design projects that involve considerations of interactions with interiors, wide range of requirements of different users and scope for visual, formal and structural innovations. The project is supported by theoretical information and assignments in the complementary nature of systematic and creative thinking in the various stages of the design process and visual, structural and functional analysis of design system. These will be developed and presented in the form of appropriate and tangible design solutions including models, graphic solutions etc.

### **Learning Objectives:**

Interior Design Studio-IV-(Mixed Typology) will:

- Guide students to manage projects such as: Museum, Transport Hub, Airport Lounge, Club Houses, Resort, Health Care center etc., preferably with live site.

**Pedagogy:** Case Studies and Survey's, Student led Projects

### **Course Outline:**

- Students will have freedom in choosing the typology of studio design they would work on and also chose their mentor with the expertise of typology chosen individually.

**Note:** Graduation project, being the final academic project, as under graduates will reflect all the knowledge acquired in the 4 years. Students are expected to produce a complete set of Conceptual presentation along with Technical Specifications and 3D Visuals as the final outcome for jury along with their own innovative methods or representing their designs.

*Year 4 / SEMESTER 8/ SPECIALIZATION SYLLABUS*  
Program: B.V.A / B.Des Interior and Spatial Design

Course Title: Internship (Practical)

Course Code: IS82

Course Credit: 10

### **Brief Description of the Course:**

Opportunity of Internship for a given period will be assigned to student for industry exposure and the needs of the society.

### **Learning Objectives:**

- Students will practically learn the methods and techniques of Professional Practice and dealing with clients and other service oriented fellow team members.

- Practical exposure to design concept and execution on site will be a major segment of undergoing an Internship under an Architectural or Interior Design Firm.
- Internship can also be specific to furniture design and production, product or material specific if students are passionate about it.

**Course Outline:**

- Every student must work in an Interior designer or Architect's office as a full time trainee for a period of 20 calendar week's minimum (excluding viva – voce) from the date of commencement of training.
- The chief Interior Designer in the firm should have a minimum of 5 years of practical/ professional experience after his /her graduation.
- The student should involve herself /himself in various aspects of work in an office like working drawings, presentation drawings, quantity estimation, site supervision etc. Students should understand professional practice methods of various interior designers, design process from client contacts to production documents, tender documents, production drawings for various works, site supervision etc. for various works. They should also know the Coordination of various agencies – client, members of design team, consultants, contractors, craftsmen and construction supervisors.
- Detailed instructions regarding the training, the frequency of reporting to the department etc. will be issued at the end of Seventh semester, which the student must strictly follow.
- After completion of training, every student will have to submit a detailed report with a set of drawings on at least two projects in which he / she has worked during the twenty calendar weeks of the practical training period.
- This report will be evaluated at viva – voce by a jury consisting of one external, one internal and head of the department or his nominee. After submission of the report the department at its convenience will arrange for the conduct of the viva – voce examination.