

PROPOSED SYLLABUS FOR A THREE YEAR GRADUATE
PROGRAM IN INTERIOR DESIGN AND
DECORATION COURSE UNDER SEP STRCUTURE



MANGALORE UNIVERSITY

BSc INTERIOR DESIGN AND DECORATION

Fifth and Sixth Semester (SEP Program Structure)

Syllabus for B.Sc. (Interior Design and Decoration) V and VI Semester

BACHELOR OF INTERIOR DESIGN WITH INTERIOR DESIGN AS CORE SUBJECT
TABLE FOR BIRDS EYE VIEW OF FIFTH AND SIXTH SEM SYLLABUS WITH PAPERS
OFFERED FOR BSc IDD UNDER SEP

SEM	COURSE TITLES	THEORY/ PRACTICAL	Ins Hours /Week	CREDITS	MARKS		TOTAL
					SA	IA	
<u>V</u>	Building Services in interiors	THEORY	3	3	80	20	100
	Sustainable interior design	THEORY	3	3	80	20	100
	Estimation & Costing in interiors	THEORY	3	3	80	20	100
	Automation In interiors	THEORY	3	3	80	20	100
	Green Interiors concepts	THEORY	3	3	80	20	100
	Restoration and renovation of interiors	THEORY	3	3	80	20	100
	Interior design studio for commercial spaces and Restaurants	PRACTICAL	4	2	40	10	50
	Rustic Design for interiors	PRACTICAL	4	2	40	10	50
	Interior Site visit and Interior survey (Practicals viva)	PRACTICAL	4	2	40	10	50
	<u>Skill development 2</u> Interior Model Making workshop	PRACTICAL	2	2	40	10	50

SEM	COURSE TITLES	THEORY/ PRACTICAL	Ins Hours /Week	CREDITS	MARKS		TOTAL
					SA	IA	
<u>VI</u>	Professional practice	THEORY	3	3	80	20	100
	Project management	THEORY	3	3	80	20	100
	Textiles and Accessories in Interior Design	THEORY	3	3	80	20	100
	Vastu and Fengsui in Interiors	THEORY	3	3	80	20	100
	Textiles and Accessories In Interior Design	PRACTICAL	4	2	40	10	50
	Interior design Perspective and rendering	PRACTICAL	4	2	40	10	50
	Project work/Internship training	PRACTICAL	10	10	250	50	300

Vth Semester Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	3
Course Name	<u>Building Services in Interiors (Theory)</u>	Lecture Hours total	48 hrs
<u>Objectives</u>			
1 To enable the students to understand the basic principles of drainage and water supply in buildings. 2 To learn calculations and connections for water supply and sanitation 3 Apply the knowledge gained from the subject in Designing Spaces 4 To study the concept of insulation in interiors 5 Gain the knowledge of Acoustics in interiors 6 To use the conditioning systems for human comfort 7 To Design an fire safety systems in interiors			
<u>Unit 1: Water Supply and Sanitation</u>			<u>16 Hours</u>
<u>Chapter 1:</u> Introduction to water supply, types of water supply systems, calculation of water supply requirements and storage of water. Water supply in multi store building - application, advantages and its benefits. Types of hot water, Types of heaters ,pressure & Pressure types, Tank-less water heaters, Geysers – central hot water system			
<u>Chapter 2</u> Introduction to sanitation, types of sanitation, Introduction to drainage system, types of drainage system, traps - different types used, Septic tank, two types of plumbing systems – ventilation systems, inspection chambers/manholes			
<u>Chapter 3:</u> Introduction to sanitary fitting and classification. Different types of hand wash basins, water closet sand urinals, showers/diverters/panels, mixers/cisterns and bath tubs, towel rails/rods, mirrors, storages, Kitchen sink			
<u>Unit 2: Thermal insulation and Acoustics</u>			<u>16 Hours</u>
<u>Chapter 2:</u> Thermal Insulation: Introduction to thermal insulation, Purpose of insulation, types of thermal insulating materials used for floors, walls and ceiling & doors and windows and its installation procedure,			
<u>Chapter 3:</u> Introduction to acoustics, objectives of acoustics, terminology, sound in interiors, factors involved in sound. Classification of sound, sound transmission defects due to reflected sound. Introduction to absorbents, classification of absorbent, types of sound absorptive materials, porous absorbents, commercial porous materials, resonant panels or membrane systems, space or functional absorbers. Types of wall insulation, flooring insulation, ceiling insulation, timber floor floating construction, window insulation, Types of Noises, Ways to control room noise.			
<u>Unit 3: Ventilation and Air conditioning, Fire safety design, lifts & escalators</u>			<u>16 Hours</u>

Chapter 4:

Natural ventilation for the building - Introduction to ventilation. Guidelines for natural ventilation, its types and its application. Mechanical ventilation - Ventilation with fans, ventilation with ducts, Introduction to air-conditioning and ducts, **Air conditioning system**, process of air conditioning, types of air conditioning system and window units, packaged air conditioner, vertical air cooled packaged unit, horizontal package unit, central plant systems, ducts grills and diffusers.

Chapter 5:

Firefighting services, types of fire resisting materials, construction methods for fire proof partitions, doors and windows,

Chapter 6:

Lift and Escalators and Safety devices: Definition of lift, Working of lifts, Types of lifts, Lift safety regulations, Escalators and its types, introduction to safety systems:

References

1. Ch'ing, Francis D.K., Binggeli, Cork, "Interior Design Illustrated", Willey Publications, New Jersey, 2004
2. Hall, Fred, Greeno, Roger, "Building Services Handbook", Butterworth Heinemann, UK, 2001
3. Purnima, B.C., „Environmental Engineering-I-Water Supply Engineering", Laxmi Publications (P) Ltd, New Delhi, 2005
4. Singh, Gurcharan, "Water Supply and Sanitation Engineering (Environmental Engineering)", Standard Publishers Distributors, 2007

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	2
Course Name	<u>Interior design studio for commercial spaces and Restaurants(Practical)</u>	Lecture Hours total	60 hrs
<u>Objectives</u> 1 To equip the students with the skills and knowledge required to design various aspects of commercial spaces. 2 To focus on spaces that incorporate communication content such as branding, visual merchandising, and set design for Commercial spaces and Restaurants 3 Prepare the layout of large scale commercial spaces and Restaurants with an emphasis on planning. 4 Develop design skills with an art of marketing and visual communication. 5 Focus on lighting and displays in commercial environments such as Showrooms, Boutiques, Shopping arcades, Restaurants etc.			

<u>Unit 1: Case study & Literature Study</u>	<u>10 Hours</u>
Case studies and Literature studies for a Commercial Interiors & Restaurants and studying various aspects like Requirements, Planning, Circulation, Aesthetics, Furniture design- Modular units, display units. Types of layouts, Material adopted, Services analysis etc.	
<u>Unit 2: Data Collection, Requirement & Area Analysis</u>	<u>10 Hours</u>
Making of Client Profile, Requirements, Area Analysis, Bubble Diagram, Block Diagram, stack diagram, Adjacency Matrix, Criteria Matrix and Site Analysis of a given Commercial and Restaurant Project.	
<u>Unit -3: Design Development and Drawings</u>	<u>10 Hours</u>
Development of a Concept Board, Mood Board, Furniture Layout, Flooring Layout. Converting conceptual design into final drawings suitable for execution with anthropometrics. Development of Plans, Elevations, Sections. Working Drawings.	
<u>Unit 4: Services – Electrical, Lighting and HVAC and Plumbing Layout and Sanitary fittings</u>	<u>15 Hours</u>
1 Preparation of Electrical Layout, Lighting (colour scheme – natural & artificial light) for Commercial and restaurants. 2 Preparation of HVAC layout with suitable system 3 Preparation of Plumbing (Water supply and Sanitation) layout plan for a chosen commercial and restaurant project Design, selection and of Sanitary fittings	
<u>Unit -5: Presentation Drawings and 3D Views</u>	<u>15 Hours</u>
Floor plans of any 3 commercial and 2 restaurant plans , and any one sectional views, furniture layout and 3d views of any one furniture for this project.	

References :

1. Ernst and Peter Neufert “Neufert Architect’s Data”, Wiley Blackwell Publication, United Kingdom, 2012 ISBN:9781405192538
2. Hall, Fred, Greeno, Roger, “Building Services Handbook”, Butterworth Heinemann, UK, 2001
3. Joseph De Chiara, Julius Perero and Martin Zelnik, “Time Saver Standards for Interior design and Space Planning”, McGraw Hill, London, 2011, ISBN:978 0 07170 465 6
4. Lasc, Anca I., Patricia Lara-Betancourt, and Margaret Maile Petty, Ed. Architectures of display: department stores and modern retail. Routledge, 2017. ISBN 9781472468451
5. Mesher, Lynne. Basics Interior Design 01: Retail Design. Ava Publishing, 2010. ISBN 9781474289252

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	3
Course Name	<u>Sustainable interior design (Theory)</u>	Lecture Hours total	50 hrs
<u>Objectives</u> 1) To study Careful selection of Environmentally Sustainable Building materials in interior design 2) To sensitize students about need for environmental design 3) To study the various factors involved in environmental and sustainable buildings' 4) This Helps to understand the concept of Sustainable interior materials in designing 5) Study of key sustainable interior materials			

<u>Unit 1: Introduction to Sustainability in interiors and its principals</u>	<u>15 Hours</u>
<u>Chapter 1:</u> Concept of Sustainability, growing recognition for sustainable design, efficient use of natural resources, Environment and Energy cost, role of human capital, buildings impact on people and environment, Interiors impact on inhabitants and occupants in interior.	
<u>Chapter 2:</u> Environmental Responsibility, Energy Efficiency, Indoor Air Quality, Water Efficiency, Waste Reduction, Adaptive Reuse and Upcycling, Sustainable Sourcing, Biophilic Design-Incorporate nature: Integrate natural elements like plants, natural light, and organic patterns to enhance occupant well-being and connection to the environment.	
<u>Unit 2: Principals of Sustainable Design and Materials</u>	<u>15 Hours</u>
<u>Chapter 3:</u> Natural materials; Minimal construction waste; Locally produced materials; Non- or less-toxic materials; Durable materials; Rapidly Renewable Materials; Low Maintenance; Reusability; Recyclability; Biodegradability.	
<u>Chapter 4:</u> Harmful chemicals that can affect air quality in interior spaces: Volatile Organic Compounds (VOCs); Brominated flame retardants, Halogenated plastics, Bisphenol A, Heavy metals, Toxic solvents in finishes and sealants, Formaldehyde.	
<u>Unit 3: Key Sustainable Interior Materials and Methods, Interior finishes</u>	<u>20 Hours</u>
<u>Chapter 5:</u> Recycled concrete bricks, Adobe bricks, Stabilized earth blocks, Compressed sand bricks, Hydra form bricks, Fly Ash Bricks, Wool Bricks; Wood Materials: Engineered wood, Plywood, Oriented strand board, Glued laminated timber (glulam), Laminated veneer lumber , Parallel strand lumber, Finger-jointed lumber, I-joists	
<u>Chapter 6:</u> Certified Wood, Landscape pavers made from recycled plastic, Recycled asphalt and bitumen, Expanded polystyrene (EPS) foam, rigid plastic foam, Concrete blocks with foam inserts, Bamboo flooring, Cork flooring, Eco-friendly linoleum flooring,	
<u>Chapter 7:</u> Solar Tiles Roofing, Sustainable Concrete, resin composition roofing tiles, integrated sheathing and insulation, Weatherproof shingles manufactured from recycled aluminum alloys, Super-insulated stress-skin panels, Homasote fiberboard, Cotton insulation, Hemp based products, Blown insulation; wallpapers insulation, recycled gypsum board or wallboard, Natural Fiber Reinforced Plastics, Casein paint, Sisal wall coverings, recycled burlap, recycled wool carpet, recycled ground-up tire rubber	

References :

1. Kim, Jong-Jin; Qualities, Use, and Examples of Sustainable Building Materials, CSS, University of Michigan, 1998.
2. Binggeli, Corky. Materials for interior environments. John Wiley & Sons, 2008. American Institute of Architects; Environmental Resource Guide Subscription. Washington: AIA; 1992.
3. Spiegel, Ross; Green building materials: a guide to product selection and specification. John Wiley & Sons, 2010.
4. Yudelson, Jerry. The green building revolution. Island Press, 2010.
5. Martha Maeda, The Complete Guide to Green Building & Remodeling Your Home, Atlantic Publishing Co. 2011
6. Susan M Winchip, "Sustainable Design for Interior Environment", Fairchild Publication, 2nd revised edition, 2011.

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	3
Course Name	<u>Estimation & Costing in interiors (Theory)</u>	Lecture Hours total	48 hrs
<u>Objectives</u> 1) To enable the students to understand the concept of estimation and costing for interiors 2) To analyze various components based on specification 3) To develop the necessary skills in understanding quantities and costs for estimation of basic civil works of buildings and interior works			

<u>Unit 1: Estimation and Specification</u>	<u>10 Hours</u>
<u>Chapter 1:</u> Introduction to estimation, benefits, types of square footage, types of estimate, parameter, items-wise estimation, take-offs. Factors to be considered for special design with estimation, Introduction to costing and benefits, cost influences and construction cost, contractors overhead cost, professional fees. <u>Chapter 2:</u> Introduction to specifications, types of specifications, prosperity specifications, based bid specifications, descriptive specifications, performance specifications, master specifications its advantages and disadvantages, Introduction to writing specification, Guidelines for writing specification.	
<u>Unit 2: Wall and Ceiling Estimate and Flooring Estimate</u>	<u>19 Hours</u>
<u>Chapter 3:</u> Estimation for inner interior brick Wall Construction, Estimation for wood and steel Partitions with Doors, Fixed Glass/ Windows. Estimation for Wall and Ceiling Treatments, Calculation of prices for Wall coverings with paint (enamel paint, duco paints, melamine, DU coats), veneering and laminating, wall materials such as wall tiles and paneling, vinyl paper, Estimation and costing of Suspended Ceilings. <u>Chapter 4:</u> <u>Flooring Estimation</u> for Plank and Tile Flooring , Resilient Flooring and Soft Flooring, Explanation of Area Rugs product , product sizing and packaging of area rugs, Commonly used flooring products and their estimation and costing	
<u>Unit 3: Cabinetry & Furniture and Window treatment Estimation</u>	<u>19 Hours</u>

Chapter 5:

Discussion of Countertops and Cabinetry: - Product sizing and packaging estimate. Pricing of Cabinetry using pricing grids, Construction and Finish Costing of components of Countertops and Cabinetry.

Chapter 6:

Window Treatments :- Common types of window treatments , **specifications and pricing:** – Top Treatments estimation , Window Shades and Hard Treatments estimation, **Curtains and Drapery estimation** – Pattern and material estimation, Blinds and other coverings estimation,

Chapter 7:

Calculate pricing from an upholstery manufacturer's price list for Soft Furnishing such as Bedding: Spreads, Shams, Coverings; Reupholstered and Slipcovered Furniture for estimate

References :

1. Dutta, B.N., (2003), "Estimating and Costing in Civil Engineering", UBS Publishers & Distributors Pvt. Ltd., 2.K
2. Kohli, D.D and Kohli, R.C.,(2004), "A Text Book of Estimating and Costing (Civil)", S. Chand & Company Ltd.,
- 3 A Text book of Estimation and Costing (Civil), Kohli. R. C., S. Chand Publishing, New Delhi, 2012.
- 4 Electrical Wiring Estimation and Costing, Uppal, S. L., and Garg. G. C. Khanna Publishers, New Delhi, 1986
- 5 Estimation construction costs, Peurifoy. R. L., and Oberlender, G. D. McGraw Hill, New York, 2013
- 6 Estimating and Costing for Interior Designers: A Step-by-Step Workbook, Diana Allison, Bloomsbury Publishing India Private Limited, 2014.
- 7 Estimating for Interior Designers, Carol Sampson, Watson-Guptill; 2nd Revised edition, 2001.
- 8 Professional Practice for Interior Designers Hardcover – Import by Christine M. Piotrowski (Author) Publisher: John Wiley & Sons; 3rd Edition, 2001.
- 9 Interior Design Reference Manual: Everything You Need to Know to Pass the NCIDQ Exam Paperback – Import by David Kent Ballast (Author) Publisher: Professional Pubns Inc; 6 edition, 2013.

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration			Semester: Fifth Semester
		Course Credits	3
Course Name	<u>Automation In interiors(Theory)</u>	Lecture Hours total	48 hrs
<u>Objectives</u> 1) To learn about various controls or monitoring signals from different appliances, or basic services. 2) To learn about energy efficiency and different networking and fire alarm systems 3) Develop project based on automated systems 4) Build own Bluetooth operated interior Automation System 5) Get hands-on experience on control devices and electrical loads			

<u>Unit 1: Fundamentals of Building Management System</u>	<u>16 Hours</u>
<u>Chapter 1:</u> Introduction, definitions, objectives, scope, energy management systems, Automation in Interiors – introduction, definitions advantages and disadvantages. Sensors –classification – based on types and requirement, design consideration, advantages, and disadvantages <u>Chapter 2:</u> Introduction to CCTV Systems, Types of CCTV Systems, Camera Selection and Design Concepts, Camera Types, Camera Specifications & Features. Introduction to Digital Video Recorder, Setting a DVR, DVR Structure and Sections, Classification Of DVR, Special DVRs, Networking	
<u>Unit 2: Intrusion Detection & Alarm System</u>	<u>16 Hours</u>
<u>Chapter 3 :</u> Smart Interiors – introduction, definition, terminologies, elements of smart interior advantages and disadvantages. Smart appliances – introduction, advantages and disadvantages. Smart kitchens – introduction, definition, advantages and disadvantages. Smart gadgets – Bluetooth operated appliances, Alexa or Google voice controls, sensor based plumbing fixtures. <u>Chapter 4:</u> Sensor based Lighting systems – introduction, types, controls, advantages, disadvantages. Energy efficient lighting system – introduction, types of sensors, advantages and disadvantages: <u>Chapter 5:</u> Smart Communication – Introduction, definitions, importance of smart communication, types, and properties. Wireless communication systems – uses in interiors, types, advantages, and disadvantages.	
<u>Unit 3: Cloud services and Fire Alarm system</u>	<u>16 Hours</u>
<u>Chapter 6:</u> Introduction to concept of Cloud Services - LAN, WAN, implementing of networks, Introduction to Cloud services - sharing of files, printing and scanning, network protocols- TCP/IP, Ethernet, Modbus <u>Chapter 7:</u> Introduction To Fire Alarm System, Need For Fire Alarm System, Types Of Fire Detectors Types Of Fire Panels, Conventional And Addressable System, Input-Output Modules, Indicators & Annunciators Fire Cables And Classes Of Wiring, Fire Alarm Wiring And Configuration, Conventional Addressable Fire Panel Interfacing With access control System, Sensors-heat, smoke control, conventional fire alarm panels, addressable fire alarm panels, cabling, safety standards, alarms,	

References :

- 1 Gerard O'Driscoll, In the Essential Guide to Smart Home Automation Safety & Security.
- 2 O'Driscoll Essential Guide to Smart Bulbs & Lighting Control Essential Guide to Smart Home Entertainment James Gerhart, Home Automation & Wiring.
- 3 Nick-Vandome, Smart Homes in easy steps: Master smart technology for your home
- 4 Donald Norris, Home Automation with Raspberry Pi: Projects Using Google Home, Amazon Echo, and Other Intelligent Personal Assistants.

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	2
Course Name	<u>Rustic Design for Interiors (Practical)</u>	Lecture Hours total	60 hrs
<u>Objectives</u> 1 Rustic Design for interior so study the concept of rusting design 2. Use of rusting design in interiors taking inspiration of historical and modern periods 3. Study of different types of rusting styles			

<u>Unit 1: Introduction to Rustic Designs</u>	<u>15 Hours</u>
Uses of the term rustic design in modern periods; use of historical period room installations or furniture's within a modern overall room design.	
<u>Unit 2: Contemporary rusting styles and materials</u>	<u>15 Hours</u>
Study of contemporary rustic styles; rustic setting, raw natural elements, wide plank wood floors, fire place , paneled walls, white walls, wooden beamed ceilings, neutral, natural, color palette, Large Chunky Pieces, Faux animal Hides, balanced white and Neutral, Non Painted wood, <u>Students has to do the collection of these material elements or pictures make a collection record</u> Natural Solid Fabrics, Non- Shiny metal woven Baskets, Reclaimed barn wood, Bold, Simple Patterns Woven Textiles, Modern Rustic combo, Rustic Colour Palettes; ruby; Sage Green; Mustard; Amethyst; Scarlet; Peacock; Dove; Gray; Tangerine; Burn Orange;; Caramel; Orange garnet Permission; Terracotta Chocolate	
<u>Unit 3: Document reporting and detailed drawing</u>	<u>30 Hours</u>
1) Students have to do and submit the document which is reporting four live cases on rustic design, the document should include; Detailed Drawing and Specifications, Photographs, themes, materials used proportionate estimation. 2) The students have to integrate their findings in the visual journal. This individual journal will be taken under the guidance of faculty advisor, to demonstrate interior Knowledge & professional Interiors.	

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth	Semester
		Course Credits	3
Course Name	<u>Green interiors(Theory)</u>	Lecture Hours total	48 hrs

Objectives

1. Understand the importance of green building technology
2. Acquiring the knowledge in the recent green building materials and to trap rain water.
3. Identify different art forms for interiors.
4. Knowing the arts of various regions of India.
5. Appreciate the traditional crafts of India.
6. Recognize the natural fibres used in crafts

<u>Unit 1: Materials</u>	<u>16 Hours</u>
<u>Chapter-1:</u> Introduction to Green interiors, definition and concept of Green interiors, aims and objectives. Importance and necessity of Green interiors. Brief history and development of green interiors. Principles of green interiors <u>Chapter 2:</u> Materials and finishes used in green building – Bamboo, straw, wood, dimension stone, Recycled stone, non-toxic metals, Earth blocks-compressed, rammed, baked; vermiculites, flax linen, sisal, wood fibres, cork, coconut, polyurethane block. <u>Chapter 3:</u> Green building practices and technologies on Roof, walls, floors, electrical, plumbing, windows, and doors, heating, ventilation, and air conditioning (HVAC), insulation, Interior finishes, landscaping	
<u>Unit -2: Renewable Energy Resources</u>	<u>16 Hours</u>
<u>Chapter 4:</u> Renewable energy resources – meaning and importance, solar energy – advantages, principles, and functions of solar devices – solar room heater, solar lights, solar water heater, solar air conditioners. <u>Chapter 5:</u> Water conservation - Rainwater harvesting-importance, requirements of rainwater harvesting structure, types of rain water harvesting systems, advantages. <u>Chapter 6:</u> Parameters to be considered for making buildings green, basic concepts of building design, systems design, and controls.	
<u>Unit -3: Green Building Design</u>	<u>16 Hours</u>
<u>Chapter-7:</u> Heat Insulation and Building Density, Solar Protection, Glare Protection, Daylight Utilization, Noise Protection <u>Chapter-8:</u> Green Building Design, Reducing Material Impact, Increasing Energy Efficiency, Green wall system, Roofing system, green floor finish system <u>Chapter-9:</u> Rating systems of green buildings, green buildings certification, and carbon credits. Certification systems and certification authority-IGBC, GRIHA, BEE	

References:

1. Diesendorf, Mark (2007). Greenhouse Solutions with Sustainable Energy.
2. Faulkner, R., and Faulkner. S, (1987) Inside Today's Home, Rinehart publishing House, New York
3. Rai G.D (1996), Solar Energy Utilization, Khanna Publishers, Delhi.
4. Riggs, J.R. (1992) Materials and components of Interior Design, Regents Hall, New Jersey
5. Roa, M.P. (1998), Interior design, principles and practice, standard publishers, Delhi.
6. Abbaszadeh, S, L. Zagreus, D. Lehrer, and C. Huizenga, "Occupant Satisfaction with Indoor Environmental Quality in Green Buildings".
7. 4. Miles Keeping, David Shiers, "Sustainable Building Design: Principles and Practice".

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	2
Course Name	<u>Interior Site visit and Interior survey (Practical and viva)</u>	Hours total	60 Hours
<u>Objectives</u> 1. Analyze the interior spaces for design elements and principles. 2. Evaluate the use of materials, lighting, color, and furniture. 3. Understand the functionality and aesthetics of different types of interiors. 4. Develop skills in documenting and presenting site visit findings.			
<u>Unit 1: Residential Interiors site visit</u>			<u>10 Hours</u>
1. Site visit to a residential home 2. Focus on : Space planning, lighting, furniture arrangement 3. Assignment: Sketch floor plans and note design features			
<u>Unit 2: Commercial Interiors site visit</u>			<u>10 Hours</u>
1. Site visit to an office or retail space 2. Focus on : Ergonomics, branding through design, material choices, Space planning, lighting, furniture 3. Assignment: Analyze the functionality and design effectiveness, Sketch floor plans, design features			
<u>Unit 4: Interior Surveying</u>			<u>40 Hours</u>
1. Measurement of the areas of different shapes like square, rectangle, circular, triangular, semicircular, trapezoidal rhombus shapes 2. Material Specification and detailed dimensional details for all components of interiors like walls, flooring, ceiling, doors , windows and other openings, electrification with light fittings, Plumbing with sanitary fittings Furniture's, Indoor 3. Measuring a complete space plan of residential or commercial drawing it to scale, Judgment and analysis of plan, concept of revised plan. Free hand Sketches of different views of room 4. Finally a small mini project with mood board of any one interior space of residential like bedroom, guest room, kitchen or an office waiting room or an MD chamber by preparing following details, such as floor plan with furniture layout, 3D views, showing all features with interiors. The students has to prepare a small report on mini project details with drawings and submit in exams for viva			

References:

1. Time Savers Standards for Building Types- Mc Graw Hill Book Co. 2018
2. Building Drawing- TATA Mc Graw Hill Publishing – Shah, Kale& Patki 1992
3. Neufert Ernst, 1970, Ernst Neufert, Architects data by Lockwood and sons, London

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	3
Course Name	<u>Restoration and renovation of interiors(Theory)</u>	Lecture Hours total	48 hrs

Objectives

1. To understand the reusability of space
2. To explore multiple activities and Flexible space adaptation
3. To understand recycle and reuse of materials
4. To understand techniques in alteration and renovation in interiors
5. To explore public behavior and spaces for renovation

Unit 1: Introduction to Renovation and Importance	16 Hours
<u>Chapter 1:</u> Introduction to Renovation: Importance of Renovation, to increase the enjoyment and conformability Need for Renovation, to increase value to secure a safety issue, to improve the style, to improve the functions to improve the efficiency. <u>Chapter 2:</u> Importance of renovation , Need for renovation , Areas of concern: walls, floor, ceiling , roof, wood work, electrical, plumbing, sanitary, furniture & furnishing, Evaluation of existing conditions, structural stability. • Study of prevalent rules and regulations of local authorities, New work to blend with old structure.	
Unit 2: Renovation process for various interiors	16 Hours
<u>Chapter 3</u> Renovation and alteration process of interiors for classrooms, seminar hall, library ,smart classrooms Renovation and alteration of interior requirements for gymnasium, indoor stadium and aquatic complex – schemes for interiors of stadium with focus on lighting requirements and visibility <u>Chapter 4:</u> Considerations of Alterations Evaluation of Existing Conditions, Study of Prevalent rules and Regulations, Sketching, Analysis of Cost Repair. Alterations of interiors in saloons, pubs, discotheque and banks, etc. - schemes for the same.	
Unit 4: Renovation schemes and advantages and alterations	16 hours
<u>Chapter 5:</u> Renovation and alteration of interiors for airports, MRTS, railway stations and bus terminals – schemes for the same, Advantages of renovation- Energy Efficiency, Creating a new living space, aesthetics- a new appearance and investment <u>Chapter 6:</u> Renovation and alteration of interiors for entertainment buildings such as clubs, multiplex and amusement parks – schemes for video games parlor, food court areas and exclusive indoor game areas of clubs.	

References:

1. Edward D Mills- planning Buildings for administration, entertainment and recreation – Krieger publishers, New York, 2006
2. Carlson Broto- architecture on sports facilities – pg 1 publishing, spain, 2005
3. Designs for 20th century Interiors – Fiona Leolie, VH Publications, London. De Chiara and Callender – Time
4. Saver Standards for interior design, 1982
5. Element Of Style, Erin Gates, 1920
6. Commercial Renovation Cost Data, 2016, Jordian
7. Home Remodeling, Mike Litch Field, 2012.
8. Victorian exterior Decoration: How to paint your 19th - century American House Historically.
9. Victorian Interior Decoration: American Interiors: 1830-1900

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fifth Semester	
		Course Credits	2
Course Name	<u>Skill development</u> <u>(Model Making workshop) (Practical)</u>	Lecture Hours	2 Hours/week

- 1) Preparation of base for models using wood or boards to block models (or 3D Compositions) involving the usage of various materials like Thermocol, Soap/Wax, Boards, Clay etc.
- 2) Details using tapering, shuttering, adding and subtracting material. Use of joining items like nails, adhesive, melting etc use of Use of ceramics-Plaster of Paris, mud, clay in Models is allowed, new materials for Model making like Glass, acrylic, wire, stone etc., can be introduced.

The students has to perform the following models

- 3) Designing of detailed furniture models (prototype).
- 4) Design and development of complete interior model with furniture model for living room or bed room, dining room, café or restaurant, Offices, kids room etc

VI SEMESTER

VI th Semester

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	3
Course Name	<u>Professional practice (Theory)</u>	Lecture Hours total	48hrs

Objectives

1. To enable the students to understand the professional practice
2. To enable learn the rules and regulations of professional practice in interior design
3. Understand that Interior Design contributes to the betterment of the human condition from the individual to the global community, and able to justify and defend design solutions as it relates to natural, social, and economic issues
4. Understand the meaning and impact of design as it relates to human interaction, technology, theoretical frameworks, and interdisciplinary effort
5. Evaluate, select, synthesize and apply information and research findings to design solutions

<u>Unit 1: Profession & Management of Firm</u>	<u>16 Hours</u>
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Chapter-1:

Role of Interior Designer in society: Interior Design Profession as compared to other professions. Difference between profession and business. IIID and other organizations related to interior design Profession. Interior Designers approach to works, ways of getting works: types of works, works Partly executed by other Interior Designers: various precautions to be taken before taking up the work.

Chapter 2:

Interior Designer's duties: drawings to be prepared: Interior Designer's relation with other parties connected with works such as client, contractor, sub-contractors, consultants and authorities. IIID Code of professional conduct: scale of charges. Inspection of work, certificate of payment to contractor.

<u>UNIT-2: Tender & Code of Professional Conduct</u>	<u>16 Hours</u>
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Chapter 3 :

Issues of professional practice: Professional behavior, Ethics, Types of clients, Career opportunities, styles of interior design practice, relationship between client and professional, type of fees, process of fees negotiations, billing methods, tax liabilities – Service Tax, Professional tax, GST, duties.

Chapter 4:

Introduction to tender, types of tenders, procedures, tendering for a project, awarding of the tender, the work order arbitration, professional bodies and arbitration, Tender: Tender document and its content. Types of tenders, advantages and disadvantages of Each type; suitability to various projects. Tender notices, opening, scrutiny, process of selection and award. Interior Designer role in tender process. Earnest Money
Deposit, Security Deposit, Retention Amount

<u>UNIT-3: Contracts & Contract Administration</u>	<u>16 Hours</u>
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Chapter 5:

Code of professional conduct of interior designs, membership, payment of subscription, members and their responsibility, trade members, associate and fellow members. Contract: General Principles, types of contracts; Contract document. Contract Management: Work contracts – types of contracts – item rate, labor, lump sum, cost plus percentage etc. bill of quantities, schedule of rates, tenders, public, limited and negotiated tender documents

Chapter 6:

Owning an office, problems in starting up an office, rules and regulations to follow in owning an office, registration to local authorities, Administration of firms; basic accounting procedures, Types and extent of services offered by Interior Designers, scale of fees, Stages of payment, and contract between client and Interior

Designer. Idea of profession; differences between profession, trade and business. Types of offices for Interior Design practice: staff structure, presentations in meetings, recording minutes of meeting

References

- 1) Christine. M. Piotrowski, "Professional Practice for Interior Designers" 3rd edition, John Wiley & Sons, 2001, ISBN: 978 0 47121 028 3
- 2) Cindy Coleman, Interior Design Handbook practice, Mc Graw Hill professional, 1st edition, 2001
- 3) Namavati. H. Roshan. Professional Practice. 8th edition, Lakshmi Book Depot, Bombay, 2001.
- 4) Robert K. Hale, "Starting Your Career as an Interior Designer", Allworth Press, 2009.
- 5) Robert L. Alderman, "How to Prosper as an Interior Designer: A Business and Legal Guide", John Wiley & Sons, 1997
- 6) Ronald Veitch, Professional practice for Interior Designers, Penguins Publishers, Limited, 1987
- 7) Sandeep Mantri, "Practical Building Construction and Its Management", Satyaprakashan Publications, New Delhi, 2011

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	2
Course Name	<u>Textiles and Accessories In Interior Design (Practical)</u>	Lecture Hours total	60 hrs
<u>Objectives</u> 1) To get the knowledge about textiles and fabrics and its use in interiors 2) To learn about various furnishing in interiors 3) To develop various interior products			
Unit 1: Development of a fabric catalogue			<u>15 Hours</u>
Development of fabric catalogue with details of type of fabric, cost per meter, Types of draperies, cushions, upholstery materials, Carpets, Rugs, bed. Deliverables: Site Visit to any Showroom, Rate analysis and report submission.			
<u>Unit-2: Design and development of a space for an interior product</u>			<u>15 Hours</u>
Develop a design for a living room, Bedroom, Dining with Fabric sofa, bed coverings, cushions, draperies, Blinds and other accessories, and Make rate analysis for complete space. Deliverables: Make a four seater dining table linen of your own design, Space and a window blinds, or curtains of size 600x900 of your own design, Create any lamp shade or wall hanging with a fabric			
<u>Unit -3: Concept Design & Development of an interior product</u>			<u>15 Hours</u>
Design and development of a 1. Thematic lampshade, 2. Wall frame for a living room, 3. Any one traditional Indian art as wall decoration. Any one table top accessories to be submitted			
<u>Unit 4-: Detailed drawing and report of an interior product</u>			<u>15 Hours</u>
Site Visit to any showroom or any handicraft cluster and preparation of a detailed report with supporting photographs and sketches.			

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	3
Course Name	<u>Project Management (Theory)</u>	Lecture Hours total	48 hrs

Objectives

- 1) To enable students to understand about construction management
- 2) To learn about concepts and application of management in interior design
- 3) Manage projects effectively including the management of scope, time, costs, and quality, ensuring satisfying the needs for which the project was undertaken
- 4) Apply processes required to manage the procurement of a project, including acquiring goods and services from outside the organization
- 5) Manage project risk, including identifying, analyzing and responding to risk

Unit -1: Project Planning Scheduling & Controlling

16 Hours

Chapter-1

Introduction to project management, construction industry, stakeholders, roles, responsibilities and functional relationships, Construction projects – objectives and lifecycle, existing construction practices & project management systems, Project Team, organization, roles, responsibilities.

Chapter 2:

Concepts of project planning, scheduling & controlling. Project scale and construction technology, Human aspects in managing projects Project Planning and Scheduling Inputs for project planning, defining activities and their Interdependency, time and resource estimation. Work breakdown structures. Linear Scheduling methods - bar charts, LOB, their limitations.

Unit -2 : Project Monitoring Resources Management,

16 Hours

Chapter 3:

Project Monitoring and Control Site layout and organization, Site investigations. Quality tests for Construction material and processes. Quality control inspections. Project progress tracking. Resources Management and Value Engineering Methods of material/resource estimation and Management, Resources scheduling and leveling. Labour welfare,. Construction equipment types, Value engineering

Chapter 4

Inputs: Project Management plan - The Project Management Configuration Plan - Stakeholder register, Documentation and Communication “Road Map” –Enterprise environmental factors, Organizational process assets. Tools & techniques -Communication requirements analysis,

Unit -4: Communication technology, Safety Time & Cost Management

16 Hours

Chapter - 5:

Communication Technology –Communication models and methods: General Guidelines for Effective Communication -Conducting High-Quality Meetings - Communication Skills and the Project Manager - Key Project Documentation – Information distribution.

Chapter 6:

Financing of projects (how various projects are financed), capital budgeting, financial risk analysis, financial control of projects, activity sequencing, duration and time planning, scheduling and control, labor costing and subcontracting

Chapter 7

Defining and Implementing Project Portfolio Management – Objectives, practices and organizational roles – evolution of PPM - Bridging the Gap between Operations management and Project Management for multiple projects -Project Portfolio Optimization- PPM tools -

References

1	Carol E Farren, Planning and Managing Interior projects, Robert Snow Means Company, 2000
2	Harold Kerzner, Project Management: A systems approach to planning, scheduling and controlling, 2006
3	Krishnamurthy and Ravindra Construction and Project Management 2018
4	Rory Burke. Project Management Planning and Control Techniques, Publisher Wiley India ISBN 9788126521647.2009
5	Virginia I Smith. Interior Design Project Manager - Challenges, Solutions, and Golden Rules 2020

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	2
Course Name	<u>Interior design Perspective and rendering (Practical)</u>	Lecture Hours total	60 hrs
<u>Objectives</u> 1) To introduce the students by making of complete Interior perspective drawing and the essentials of interior perspective skills. 2) To build their drawing sand sketching skill of interior environments using perspective skills. 3) To encourage natural talent and to exhibit the same 4) To be confident in combinations in color and textures in perspective drawing 5) To render with pen and ink for interior perspectives 6) To render with any medium of colors for the Interior Perspective			
Unit 1: Introduction to Perspective & Study of Colouring materials			5 hours
Introduction or use of Perspective, Perspective Projection, Study of terms like picture plane, Station Point, Vanishing Point, Eye level Ground Line etc., Circular features in horizontal position, Circular features in vertical position , Visual ray method or Multi view perspective, Introduction of colors, Usage of water colors, poster colors, pen & ink, rendering techniques, etc			
<u>Unit 2: Drawing and sketching the Interior environments using perspective drawing</u>			<u>25 hours</u>
Drawing and sketching interior environments with one point interior perspective and two point interior perspective, refined linear perspective methods, for a living room, bedroom, kitchen, conference room, café, dining room, office ,reception, lobby etc. and do final rendering			
<u>Unit - III Rendering the Interior perspective with pen, ink , pencils, water colours, poster</u>			<u>30 Hours</u>
<u>Colours</u> 1) Introduction to pen and ink , colour pencils ,colour materials, water colours, poster colours and tools etc. <u>The students should render the interior perspective drawing using any of two methods:</u> • Rendering of interior perspectives with colour pencils and sketch pens Or • Rendering the interior perspective drawings with poster colours or water colours			

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	3
Course Name	<u>Textiles and Accessories in Interior Design (Theory)</u>	Lecture Hours total	48 hrs

Objectives:

1. To understand the types of fabrics used in interiors.
2. To learn its applications in interiors.
3. Understand the fundamental aspects of textiles and fabrics in interior design.
4. Learn about the key concepts of textiles & fabrics.
5. Understand what natural fibers and textiles

<u>Unit 1: Fabrics & Upholstery</u>	<u>16 Hours</u>
<u>Chapter-1</u> Fabrics for Interiors: Introduction, interior fabric element, design, color, types, and application. Importance of fabrics for interior textiles, properties and application. Classification of fabrics for interiors - Introduction, types, materials and applications	
<u>Chapter-2</u> Upholstery: Introduction, types, materials, skills and techniques. Seating - sofas, chairs, chair pads, cushions - fills. Windows - sheer curtains, curtains, curtain drapes, reflecting textiles and blinds.	
<u>Unit-2: Textiles for Rooms</u>	<u>16 Hours</u>
<u>Chapter-3</u> Interior textiles for rooms: Bed Room - types, materials and applications in sheets. Pillow Cases, blankets, mattress covers, dust ruffles. Bathroom - shower curtains, terry towels, robes. Wall coverings, screens and room dividers. Textile in Interior accessories: Introduction, types, materials and applications in lamp shade, paintings. Table textiles - table coverings, table matts, table cloth,	
<u>Chapter-4</u> Carpets and rugs: Introduction, types, materials and applications of carpets, floor mats, floor coverings, interior textiles care and maintenance: Introduction, types, materials, stain removal of upholstery, sofas, cushions, carpets, table linen, bed room and bathroom linen	
<u>Unit 3: Interior Accessories, Art & Craft and Sculpture Art, Creative Art</u>	<u>16 Hours</u>
<u>Chapter 5:</u> Introduction to arts and crafts in India. Different art forms: Fine arts, Decorative arts. Materials and their use in arts – wood, clay, stone, glass, metals and alloys. Processes and methods involved in creation of different arts and crafts. Traditional Styles of design & decorations of homes. Sculpture. Degradable/no degradable materials in interior design: Introduction, types, importance and their application.	
<u>Chapter 6:</u> Traditional arts and crafts of various states of India – Andhra Pradesh (Kalamkari), Karnataka(Chittarahase) Goa, Rajasthan, Gujarat, Kutch, Uttar Pradesh, West Bengal, Temple arts of Tamil Nādu (Tanjore paintings), Karnataka (, Mysore paintings) Kerala (Murals).materials techniques used and its application in interiors	
<u>Chapter 7:</u> Creative Art Objects: Introduction, materials, types and method, application of wall hangers, ceramics, wall textures, and murals. Textile arts and crafts in interiors, Decorative arts, Ceramic arts. Degradable/nondegradable materials in interior design: Introduction, types, importance and their application	

References:

- 1 Caroline Clifton – “Color - Design Sources Book Using Fabrics, Paints and Accessories for Successful Decorating” 2002
- 2 Caroline Clifton, “Color – Design Sources Book Using Fabrics, Paints and Accessories for Successful Decorating” Ryland Peters & Small, 2007, ISBN: 978 1 84597 460 2
- 3 Diane Patrice – “Curtains, Draperies and Shades” Publisher : Sunset Publishing Corporation 2016
- 4 Hellen Ruthberg – “The Book of Miniature Furniture & Accessories” Publisher Radnor, Pa. : Chilton Book Co.1977
- 5 Mary Neal – “Custom Draperies in Interior Design” Publisher : Elsevier Science Ltd 1982
- 6 Richard Mishaan, “Artfully Modern Interiors”, the Monacelli Press, 2014, ISBN: 978158093 400 8

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	3
Course Name	<u>Vastu and Fengsui in Interiors (Theory)</u>	Lecture Hours total	48 hrs

Objectives:

1. Helps to understand the importance of five elements in designing interiors & to learn the design strategies based on vastu & fengshui science
2. Understand Indian Vaastu and implement basics of Vaastu in Interior design
3. Write a variety of design strategies used in different rooms and spaces of living & workspace.
4. Apply fengshui decoratives in residential interiors
5. Apply basic and advanced Vaastu in design subject

UNIT-1: Indian Vaastu

16 Hours

Chapter-1

Meaning of Vaastu Shastra, elements of Vaastu, principles of Vaastu, significance of Vaastu on scientific basis. Relevance of Vaastu, plot geography: - type of soil, water sources, landmark and surroundings, plot location, plot shape, plants & trees in Vaastu.

Chapter-2

Use of magnetic compass and google earth for identification of north, four step analysis in Vaastu, significance of color in Vaastu shastra - Introduction, importance, relation to five elements, relation to sixteen directions, application in interiors,

UNIT-2: Indian Vaastu – Design Strategies & Development

16 Hours

Chapter-3

Design strategies for Vaastu compatible residential and commercial establishments-introduction, orientation and placement of building in site, **placement of rooms in residential units:-** villas, flats, apartments-living room, bedrooms, toilets, kitchen, dining room, pooja room, store room, staircase and lift, main entrances, garages, septic tank, sump, overhead tank. Commercial units factories, industries, showrooms, schools, hospitals/clinic, restaurants/cafe - office rooms, staff rooms, conference/meeting rooms, store rooms, HR room, boss cabin, stock area, factory area, security cabin.

Chapter-4

Vaastu principles, techniques and treatments for renovation projects, remedies in vastu shastra introduction, types - pyramids crystals, artifacts and accessories - significance, application.

UNIT-3: Fengshui

16 Hours

Chapter-5

Fengshui - Introduction, principles-YINYANG, Qi, natural elements and baguio and their application in interior design. Fengshui as decorative accessories for building, use of green house, open structure, water statues and sculptures, ornaments mirror and glass.

Chapter-6

Design of interiors for residential and commercial establishment showing complete Vaastu principles and considerations.

References :

- 1 _Bhojraj Dwivedi, Remedial Vaastushastra, Diamond books,2015, ISBN: 9788171820160.
- 2 Maureen L. Belle, Multicultural Fengshui: Creating harmonious environments, Pentagon Press LLP, 2007. ISBN 8186505687
- 3 Michael Borden, Vastu Architecture: Design Theory and Application for Everyday Life by Createspace Independent Pub. 2011
- 4 Puri BB., Applied Vastu Shastra in Modern Architecture: A Complete Encyclopedia of Vaastu Science, Motilal Banarsidass Publishing House 2022.
- 5 Shashikala A. The Penguin Guide to Vaastu: The Classical Indian Science of Architecture and Design, Penguin India 2000
- 6 Stephen Skinner Fengshui., Parragon, 2000 ISBN 978-0752532370

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	10
Course Name	<u>Internship Training (Practical)</u>	Contract Days total	30 Days

Objectives:

1. To impart knowledge on working in interior design firm
2. To gain practical knowledge of managing an interior design firm.
3. Acquire the ability to function and grow in a professional working environment
4. Integrate theory and practice. Explore career alternatives prior to graduation.
5. Summarize work experience via a written log, reflection essay, oral presentation and submission of a portfolio of completed work.

Students are required to undergo internship training in the office of a competent practicing architect or Interior Designer Firm , or Council of Architecture or in the architectural wing / department of a governmental, private or non-governmental voluntary organization for a minimum period of 30 working days. A work done portfolio and report to be submitted for evaluation.

Evaluation shall be through a report presentation. Students are expected to gather from observation on site, activities involved in different stages of construction of a building project. They are required to record the methods used, sequence of activities, construction details, time involved at different stages etc, as observed from the site.

The Internship Report must contain the following chapters:

- Introduction of the company, Aim and objective of the internship, Organization structure of the company.
- Role of interior designers, Layout of the organization, Types of software used for designing, Methods used for costing and estimation, Summary & conclusion

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Sixth Semester	
		Course Credits	10
Course Name	<u>Project work (Practicals)</u>	Contract Days total	30 Days

Objectives:

- 1 To ensure consolidation and application of the knowledge gained in preceding years of interior design
- 2 Education in the context of an Interior design project of the student's choice.
- 3 To enable identification and addressing of key issues/aspects inherent in a project or to enable development of thought processes in specific issues/aspects/situations leading organically to an interior design project.
- 4 To have the freedom in choosing the typology of studio design they would work on and also choose their mentor with the expertise of typology chosen individually
- 5 Plan design projects that involve considerations of interactions with Interiors, wide range of requirements of different users and scope for visual, formal and structural innovations.
- 6 innovate and conceptualize design proposal that reflect the students understanding of the design process
- 7 intensify thought process directed at a specific area of focus and convert it to a product

Students should choose a topic of their choice in terms of design potential and/or idea/issue exploration. The areas of study/research/design can include any of the broad areas of the discipline - Residence, Transport Hub, Airport Lounge, Club Houses, Resorts, Health Care center, Multiplexes, Auditorium, Institutions, Art & Design Schools, Co-working spaces etc.