

PROPOSED SYLLABUS FOR A THREE YEAR
GRADUATE PROGRAM UNDER SEP STRCUTURE



MANGALORE UNIVERSITY

BSc INTERIOR DESIGN AND DECORATION

Third and Fourth Semester (SEP Program Structure)

Syllabus for B.Sc. (Interior Design and Decoration) IIIrd & IVth Semester

Submitted to

MANGALORE UNIVERSITY, MANGALORE

BACHELOR OF INTERIOR DESIGN IDD WITH INTERIOR DESIGN AS CORE SUBJECT

**TABLE FOR BIRDS EYE VIEW OF SYLLABUS FROM THIRD SEM TO FOURTH SEM WITH PAPERS
OFFERED FOR BSc IDD UNDER SEP**

SEM	COURSE TITLES	THEORY/ PRACTICAL	Ins Hours /Week	CREDITS	MARKS		TOTAL
					SA	IA	
<u>IIIrd</u>	Language -I	THEORY	3	3	80	20	100
	Language -II	THEORY	3	3	80	20	100
	Lighting technology in interiors	THEORY	3	3	80	20	100
	Interior space planning	THEORY	3	3	80	20	100
	Vernacular Design in Interiors	THEORY	3	3	80	20	100
	<u>Disciplined Elective</u> 1) Art and craft in interiors 2) Consumer and merchandising 3) Interior business startup	THEORY	2	2	40	10	50
	Lighting technology in interiors	PRACTICALS	4	2	40	10	50
	Interior Space planning	PRACTICALS	4	2	40	10	50
	Cad in interiors -II	PRACTICALS	4	2	40	10	50
	<u>SUB TOTAL</u>		<u>29</u>	<u>23</u>			
<u>IV th</u>	Language -I	THEORY	3	3	80	20	100
	Language -II	THEORY	3	3	80	20	100
	Furniture design in interiors	THEORY	3	3	80	20	100
	Interior Construction and Detailing	THEORY	3	3	80	20	100
	Interior Landscaping	THEORY	3	3	80	20	100
	<u>Disciplined Elective</u> 1) Business Communication 2) Portfolio Design for Interiors 3) Interior Design for special needs	THEORY	2	2	40	10	50
	Furniture design in interiors	PRACTICALS	4	2	40	10	50
	Interior Construction and Detailing	PRACTICALS	4	2	40	10	50
	Interior Design studio for office environments	PRACTICALS	4	2	40	10	50
	<u>Skill development 1</u> Applied arts in interiors	THEORY	2	2	40	10	50
	<u>SUB TOTAL</u>		31	<u>25</u>			

IIIrd Semester
Model Curriculum

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Third Semester</u>	
		Course Credits	3
Course Name	<u>Lighting technology in interiors</u>	Lecture Hours total	48hrs
<u>Objectives:</u> <ol style="list-style-type: none"> 1. To enable the students to understand basic principles of illumination and application of natural and artificial lighting in interiors. 2. This subject will give basic understanding about the science behind lighting design 3. Identify lighting requirements for a range of interior situations in terms of the needs of occupants and to meet statutory regulations. 4. Apply advanced illumination engineering techniques to ensure lighting installations meet specified design objectives 5. Apply energy saving design techniques by integrating daylight in interior lighting design. 6. Apply creative lighting techniques to selected scenarios 			
<u>Unit 1: Lighting</u>			<u>16 Hours</u>
<u>Chapter 1</u> Definition of Lighting; Introduction to natural lighting & Artificial lighting. Types of Lighting: ambient lighting; accent Lighting, task lighting, Mention their uses in interiors. Significance of Lighting. Functions of Lighting.			
<u>Chapter 2</u> Daylight factor, recommended daylight factors for interiors, guidelines for good natural lighting, Illumination – principles of illumination, Laws of illumination, Recommended level of illumination for various spaces as per the relevant building code. Glare - its types, causes and prevention.			
<u>Chapter 3</u> Eco lighting: Introduction, types, materials and application of LED and solar. Modern features in lighting design.			
<u>Unit 2: Electrical Services</u>			<u>16 Hours</u>
<u>Chapter 4</u> Introduction to commonly used terminology – Voltage, Current, Power, Connected Load, Max. Demand, Load Factors, Diversity Factor etc., Importance of Electrical Services and Its implications on building design. Supply and distribution of electricity to buildings: Brief introduction to various Sources for Electricity generation. Introduction to Transmission and Distribution system			
<u>Chapter 5</u> Electrical Services - Protection Systems Switchgear & Protection Devices – Fuses, Breakers: Miniature Circuit Breakers; Earth Leakage Circuit Breakers; Moulded Case Circuit Breakers & Air Circuit Breakers and Protection Relays. Wiring process, introduction to wiring, types of wiring, benefits, importance, and applications. Wiring of a typical residential unit, wiring layout of a typical commercial space.			
<u>Chapter 6</u> Earthing & Lightning Protection System: Definition, Purpose; Types of Earthing Systems, Factors affecting selection and system specification - Type of Soil, water table, soil resistivity etc. Brief about new advances in Earthing systems.			
<u>Unit 3: Quality & Quantity of Lighting design and Lighting Fixtures</u>			<u>16 Hours</u>
<u>Chapter 7</u> Fundamentals Quality & Quantity of Lighting; Recommended Lux Levels; Type of Lamps – Incandescent, Discharge Lamps, Fluorescent, CFL, LED and OLED, indirect lighting, system such as table lamp and touchier lamp. Integration of Day lighting with Artificial Lighting, Control Systems.			
<u>Chapter 8</u> Lighting in residential and commercial buildings. Lightning system design - Factors affecting the system specification, basic rules as per NBC and other relevant codes. Guidelines for lighting design, lumen method of design. Preparation of lighting layouts for a typical residential unit and commercial unit. Introduction to fixtures, types of fixtures and luminaries, lighting accessories.			

Reference Books:

1. Anna Yudina, "Lumitecture - Illuminating Interiors for Designers and Architects", Thames and Hudson, 2016.
2. Gary Gordon, "Interior Lighting for Designers", 5th edition, Wiley Publishers, 2015.
3. Jason Livingston, "Designing with Light", Wiley Publisher, 2014.
4. Malcolm Innes, "Portfolio Skills, Lighting for Interior Design", Laurence King Publishing Ltd., London, \ 2012.
5. Mark Karlen, "Lighting Design Basic", Wiley Publishers, 2003

Model Curriculum

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Third Semester</u>	
		Course Credits	2
Course Name	<u>Lighting technology in interiors (practicals)</u>	Lecture Hours total	60hrs

Course content	
<u>Unit-1: Lighting</u>	<u>20 Hours</u>
Types of lighting, lighting arrangements, lighting positions, sketching of lighting fixtures.	
<u>Unit -2 : Electrical Services</u>	<u>20 Hours</u>
Preparation of drawing and presentation of a typical wiring plan for 2 bedroom residential complete with all the symbols and specifications with legends(any 2)	
<u>Unit -3: Lighting Design Documentation</u>	<u>20 Hours</u>
Preparation of drawing and presentation of a typical wiring plan for an office ,Restaurant , complete with all the symbols and specifications with legends(any 2)	

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Third Semester	
		Course Credits	3
Course Name	<u>Interior space planning (Theory)</u>	Lecture Hours total	48 hrs
<u>OBJECTIVES:</u> 1. To enable the students to learn the concept of spaces in the field of interior design. 2. To understand the importance of space planning for various interior environments 3. Analyze and solve the space planning problems by the using physical, psychological, and sociological factors that influence the client preferences in interior environments 4. To Prepare the floor plan and colour board to illustrate the residential space planning that incorporates specific needs for a client, and for special purposes. 5. Communicate with the interior design concepts in accurate way and professional graphic, oral and written formats.			
<u>Course Contents</u>			
Unit-1: Introduction			<u>16 Hours</u>
<u>Chapter 1</u> Introduction to space planning, terms and intent, necessity of space planning, synthesis of space planning, introduction to space design with use of computer, the design program - observation. Planning Methodology, Introduction to defining design, evaluating design - function, structure, and materials, aesthetics, analyzing existing space and its advantages <u>Chapter 2:</u> Space design - Application and evaluating design - function, structure and materials, aesthetics, analyzing existing space and its advantages. Space design - Data collection, analysis, synthesis - Zonal and block diagram, bubble diagram, adjacency matrix, stacking plans, circulation, execution, feedback, evaluation, literature study, case study, proto typical plan sketches, relationship diagram.			
<u>UNIT :2 Steps in Planning</u>			<u>16 Hours</u>
<u>Chapter 3</u> Planning steps, Mind mapping, data collection, case study, literature study, Area calculation, bubble & circulation diagram, block diagram, explained using any sample projects ,Introduction to space development, building conceptual concepts, present preliminaries, develop final plan <u>Chapter : 4</u> Introduction to construction documents, layout plan, construction plans, telephone and electrical plans, finishes plans, furniture plans and section details. Factors influencing the spatial planning, Building codes, the building shell, human factors, plumbing,HVAC,furniture placement, and planning			
<u>UNIT 3: Final Drawings</u>			<u>16 Hours</u>
<u>Chapter 5</u> Introduction to types of consultants - Acoustical consultant, lighting & color consultant, plumbing consultant, and special consultant based on project needs. <u>Chapter 6</u> Presentation drawing: circulation diagram, block diagram, stack diagram - development of elevations, sections, detailed drawings, 2-dimensional and 3-dimensional views according to the design proposal.			

Reference Books	
1	Ching, Francis D.K.; Binggeli, Cork; Interior Design Illustrated; Willey Publications; New York; 2004.
2	Joseph De Chiara, Michael J Crosbie, Time Savers Standards for Building Types, McGraw Hill, Boston Burr Ridge, Dubuque, I A Madison, W I New York, San Francisco.
3	Joseph De Chiara, Julius Perero and Martin Zelnik, Time Saver Standards for Interior design and Space Planning, McGraw Hill, New York, San Francisco, Lisbon, London.
4	McGraw, Time saver Standards for Architectural Design Data, Publications, Delhi, 2011.
5	Rao M, Partap; Interior Design (Principles and Practice); Standard Publishers Distributors; Delhi; 2006

Model Curriculum

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Third Semester</u>	
		Course Credits	2
Course Name	<u>Interior space planning (Practicals)</u>	Lecture Hours total	60 hrs
<u>Course Content</u>			
Unit-1: Development of a Design Program			<u>20 Hours</u>
Data collection techniques, Case study, Literature study, Mind mapping, Relationship diagrams, Prototypical plans, Adjacency matrix, Criteria matrix. A complete design program for a residence (with detailed case study)			
Unit – 2: Steps in Space Planning			<u>20 Hours</u>
Area calculation, bubble & circulation diagram, block diagram adjacency matrix , development of concepts for customized furniture in a residence.			
Unit -3: Design Documentation			<u>20 Hours</u>
Preparing the complete Design layout plans, and Planning steps, drawings, and documentation for a Residences and Apartments (Any 5 plans).			

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Third Semester	
		Course Credits	3
Course Name	<u>Vernacular Design in Interiors</u>	Lecture Hours total	48hrs
<u>Objectives:</u> <ol style="list-style-type: none"> 1. The objective is to instill sensitivity towards the less explored field that is concerned with Interior space 2. practices that are cost effective, ecologically sensible and relevant. 3. Acquire a working vocabulary that can help them describe vernacular architecture in meaningful ways. 4. Understand the grass root principles of indigenous interior spaces that has evolved over time in response to the environment, climate, culture, economy and basic human needs. 5. Exercise the variations in built in forms and their environmental performance across different climatic and geographical regions of India. 6. Deliver the cases studies of adaptations of vernacular architecture in contemporary interior spaces 			
<u>Course Content:</u>			
Unit 1 Introduction, Environment and Materials			<u>16 Hours</u>
<u>Chapter-1</u> Definitions and theories, Categories, Contextual responsiveness: Climatic, Geographical, Anthropological and Cultural influences. Significance & Benefits of Vernacular Design.			
<u>Chapter-2</u> Tribal Architecture Settlement Pattern, Dwelling Typology, Symbolism, Typical features, Construction materials and techniques. Andhra Pradesh (Chenchu), Madhya Pradesh (Gondh), Odisha (Kondha and Santals) and Northeast (Naga and Khasi tribes).			
Unit 2: Regional Variations in Built Form			<u>16 Hours</u>
<u>Chapter-3</u> Kerala- Nalukettu, Houses of Nair & Namboothiri's, Koothambalam, Tarawads, Kerala Muslim houses (Mappilah houses) Tamil Nadu- Toda Huts, Chettinad Houses (Chettiers).			
<u>Chapter-4</u> Karnataka- Gutthu houses (land owning community), Kodava ancestral home (Aynmane), Andhra Pradesh- Rural Kaccha houses, Rajasthan- Rural Jat /Bhunga houses and Havelis. Gujarat- Deserts of Kutch, Pol houses of Ahmedabad, Wooden Havelis. Goa- Traditional Goan houses. (Portuguese influence).			
Unit 2: Southern & Northern Region Variations			<u>16 Hours</u>
<u>Chapter-5</u> Kashmir- Typical Kutch houses, Dhoongas (Boathouses), Ladakhi houses, bridges. Himachal Pradesh- Kinnaur houses, Punjab- Rural Houses, Bengal- Rural house form- Thakur Bari (Mansions), Odisha- Rural houses of coastal areas			
<u>Chapter-6</u> Sustainable building materials and construction techniques, Works of Laurie Baker, Hasan Fathy, Anil Laul, Gerard Da Cunha, Building Centers- Auroville, Anangpur, Nizamuddin Building Centre.			

Reference Books

1	Brunskill, R. W. Illustrated Handbook of Vernacular Architecture. Castle Rock: Faber & Faber. 1987
2	Carmen, K. VISTARA – The Architecture of India. The Festival of India Publications. 1986
3	Cooper and Dawson. Traditional buildings of India. London: Thames & Hudson.1998
4	Jain, K. and Jain, M. Mud Architecture of the Indian Desert. Ahmadabad: AadiCentre. 1992
5	Kenneth, F Towards a Critical Regionalism: Six points for an architecture of Resistance, In the Anti Aesthetic: Essays on Postmodern Culture. (Ed.) Hal, F. Seattle: BayPress. . 1983
6	Muthiah, S., Meyappan, M., Ramaswamy, V. and Muthuraman, V. The Chettiar Heritage. Chennai: Chettiar Heritage. 2000
7	Pramar, V. S. Haveli-Wooden Houses and Mansions of Gujarat, Ahmadabad: MapinPublishing.1989

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Third Semester	
		Course Credits	2
Course Name	<u>Cad in interiors -II (Practicals)</u>	Lecture Hours total	60hrs

Objectives:

- 1) To enable the students to understand the skill of computer aided drafting
- 2) To Understand the 2D & 3D Skills, Rendering Techniques.
- 3) Perform the basic Understanding of a 3d Modeling software's for 3d Models
- 4) Creating the basic objects and apply materials and perform a realistic object models
- 5) Creating a 3d Model of a Interior environments for various purposes and uses

Course Content:

<u>UNIT 1: Introduction –3DS Max Modeling Software</u>	<u>12 Hours</u>
Introduction to 3D Modelling Software, importance, and application of the tool in interiors. Fundamentals of computers, file menu-saving closing files, importing and exporting files,saving files in different formats.	
<u>UNIT 2: Object Editing</u>	<u>12 Hours</u>
Introduction to object editing, types in editing the drawing with different command push/pull, arch, paint bucket, trim, extend, stretch, erase delete, introduction to viewing, types of viewing – zoom, pan, material application, browsing for materials hatch, editing, introduction to grouping, working with grouping ungrouping, creating objects, editing scene.	
<u>UNIT 3: Viewports & Models</u>	<u>12 Hours</u>
Introduction about 3d warehouse/ library viewports, camera, extension warehouse, creating models, creating furniture's, lamps, working with complete residence model.	
<u>UNIT 4: Modeling an Interior using 3DStudio Max</u>	<u>24 Hours</u>
<ol style="list-style-type: none"> 1) Creation of the complete furniture 3D model for interiors by Applying materials, rendering, and lighting. 2) Creation of a 3D model of a residence, commercial spaces, Restaurants and apply Materials and Rendering 	

References:

1	The Fundamentals of Architecture (Fundamentals (Ava)) (Paperback) by Lorraine Farrelly (Author)
2	Francis D.K.Ching - Architecture - Form Space and Order Van Nostrand Reinhold Co
3	Design Methods (Architecture) (Paperback), by John Chris Jones (Author)
4	How Designers Think, Fourth Edition: The Design Process Demystified (Paperback) by Bryan Lawson
5	Basics Design Ideas (Paperback) by Bert Bielefeld (Author), Sebastian El khouli (Author)
6	Foundations of Art and Design (Paperback) by Alan Pipes (Author)
7	John W.Mills - The Technique of Sculpture, B.T.Batsford Limited, New York - Reinhold Publishing Corporation, London, 1966.

Model Curriculum

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Third Semester</u>	
		Course Credits	2
Course Name	<u>Art and craft in interiors(Elective-I)</u>	Lecture Hours total	30 hrs
<u>Objectives:</u> <ol style="list-style-type: none"> 1) To enable the student to understand the importance of the crafts of India 2) To understand the various types of Art which can be taken as inspiration in interiors. 3) Identify the different types of art for interiors. 4) By Knowing and study of the various arts of various regions of India. 5) By Appreciating the traditional crafts of India. 			
<u>Course Content:</u>			
<u>Unit-1: Art forms for Interiors</u>			<u>10 Hours</u>
<u>Chapter-1:</u> Introduction to different art forms used in interiors, Types of paintings – Madhubani, Pattachitra, Pithora, Kalamkari, Mysore, Tanjore, Kalighat, Wall painting of Chhattisgarh <u>Chapter-2:</u> Warli, Gond, Murals – Characteristics, Techniques, types of murals – Painted, Abstract and ceramic. <u>Chapter 3:</u> Floor decoration- Rangoli- Types of rangoli: Chowk dotted, free hand, Alpana, Floating and glass rangoli, Artificial/ flower arrangement in Interiors.			
<u>Unit -2: Traditional Crafts of India</u>			<u>10 Hours</u>
<u>Chapter - 4:</u> Traditional crafts of various states of India – Andhra Pradesh (Kalamkari), Karnataka (Chittarahase) Goa, Rajasthan, Gujarat, Kutch, Uttar Pradesh, West Bengal, Bihar etc <u>Chapter – 5:</u> Temple arts of Tamil Nadu (Tanjore paintings), Karnataka (Mysore paintings), Orissa (Pattachitra), Kerala (Murals). <u>Chapter – 6:</u> Terracotta crafts in India. - Karnataka, Bengal, Gujarat, Rajasthan, Orissa & Bihar. Different forms of terracotta arts – jewellery, pottery, crockery.			
<u>Unit – 3:</u>			<u>10 Hours</u>
<u>Chapter- 7:</u> Bamboo and Cane Craft of India Arunachal Pradesh and Mizoram and Tripura, Wood Craft of Jharkhand, Lavo Mandri of Goa. <u>Chapter-8:</u> Weaving and Embroidery of Assam, Weaving of Meghalaya, Chikankari of Lucknow, Zari Work of Gujarat, Wool weaving of Himachal Pradesh, Pashmina Shawls of Jammu and Kashmir,			

<u>Reference Books:</u>
1 The Fundamentals of Architecture (Fundamentals (Ava)) (Paperback) by Lorraine Farrelly (Author)
2 Francis D.K.Ching - Architecture - Form Space and Order Van Nostrand Reinhold Co.,
3 Design Methods (Architecture) (Paperback), by John Chris Jones (Author).
4 How Designers Think, Fourth Edition: The Design Process Demystified (Paperback) by Bryan Lawson
5 Basics Design Ideas (Paperback) by Bert Bielefeld (Author), Sebastian El khouli (Author)
6 Graphic Thinking for Architects, Paul Laseau.
7 Design Drawing, Francis D. K. Ching.
8 Foundations of Art and Design (Paperback) by Alan Pipes (Author)

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester Third Semester	
		Course Credits	2
Course Name	<u>Consumer and Merchandising (Elective-II)</u>	Lecture Hours total	30 hrs
<u>Objectives:</u> <ol style="list-style-type: none"> 1) To learn about the concepts and basic understanding of Consumers 2) To learn the terms and process of merchandising goods 3) Learn about the need and use of commercial art 4) Encouraging the student to apply Theoretical knowledge in arranging the interior of a window or a store 5) By taking knowledge of current trends in commercial arts 6) By understanding the concepts of salesmanship 7) By knowing the process of advertisements in India 			
<u>Course Content</u>			
<u>Unit – 1: Understanding Commercial Art</u>			<u>10 Hours</u>
<u>Chapter 1:</u> Concept of commercial art and merchandising its meaning and classification, Development of commercial Art, Recent trends in art architecture and display, significance of display in interior and exteriors <u>Chapter 2:</u> Consumer and merchandising its meaning and Importance, significance and classification of consumers, Consumer rights and responsibilities, Classification of consumer goods, elements involved in merchandising: grading, branding, labeling, packing and standardization			
<u>Unit – 2: Understanding Merchandising distribution</u>			<u>10 Hours</u>
<u>Chapter 3:</u> Merchandising and distribution importances, various Channels of goods distribution, selection of channels, Methods of selling of goods, techniques of merchandising process. <u>Chapter 4:</u> Salesman ship details, salesmanship concepts, Types and qualities of salesmanship, Techniques of salesmanship			
<u>Unit: 3 Understanding the advertisement concept:</u>			<u>10 Hours</u>
<u>Chapter 5:</u> Definition of advertisement, Importance of advertisement, Classifications of advertisements, features of good advertisement, Preparation and techniques for advertisements, different advertisement media selection and classification, types of posters and its importance's, steps and techniques in poster making.			

Reference books

1	Pattanchetti C.C Reddy. P.N.,(1995) Marketing. Rainbow Publisher Coimbatore
2	Nair, R. (1994), Marketing, Sultan Chand and sons Educational Publishers , New Delhi
3	Nisra M.N. (1994) , Sales promotion and Advertising Management , Himalaya Publishing House, Bombay

Model Curriculum

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Third Semester</u>	
		Course Credits	2
Course Name	<u>Interior business startup (Elective-III)</u>	Lecture Hours total	30 hrs
<u>Objectives:</u> <ol style="list-style-type: none"> 1. To impart knowledge on the basis of business strategies, branding and working on a business plan that outlines the vision, mission, value proposition, and strategies of the Interior design startup 2. Create and promote the brand for an Interior design business by clearly defining its services. 3. Develop the skills or attributes that enable the realization of creative opportunity along with financial stability. 4. Analyze the profits by determining revenue and expenses to plan break-even 5. Develop the marketing objectives and plan to reach the target clients clearly 			
<u>Course Content</u>			
<u>UNIT-1: General Awareness & Startup opportunities</u>			<u>10 Hours</u>
<u>Chapter-1</u> Startup opportunities: The New Industrial Revolution – The Big Idea- Generate Ideas with Brainstorming Business Startup – Ideation- Venture Choices. The Rise of the startup economy -The Six Forces of Change – The Startup Equation- The Entrepreneurial Ecosystem -Entrepreneurship in India. Government Initiatives.			
<u>Chapter-2</u> General awareness about identification of project financing new enterprises; Promotion of a venture; opportunity Analysis Project identification and selection; External environmental analysis economic, social, technological a competitive factor; Legal requirements for establishment of a new unit; loans; Over run finance; Bridge finance;			
<u>UNIT-2: Financial Issues: Feasibility Analysis</u>			<u>10 Hours</u>
<u>Chapter-3</u> To identify different Discuss opportunities in small business; Small business Enterprise - Identifying the Business opportunity in various sectors - formalities for setting up of a small business enterprise - Institutions supporting small business enterprise - EDII (Entrepreneurship Development Institute of India), SLDO (Small Industries Development Organization			
<u>Chapter-4</u> Starting up Financial Issues: Feasibility Analysis – The cost and process of raising capital –Unique funding issues of a high-tech ventures. Funding with Equity – Financing with Debt- Funding startups with bootstrapping-crowdfunding- strategic alliances. Startup Survival and Growth: Stages of growth in a new venture- Growing with the market – Growing within the industry.			
<u>UNIT-3: Entrepreneurial Skill Set</u>			<u>10 Hours</u>
<u>Chapter-5</u> To make the students understand about entrepreneurs and different classifications. Entrepreneur and entrepreneurship- Definition; traits and features; classification; Entrepreneurs; Women entrepreneurs; Role of entrepreneur in Entrepreneurs in India, Create an awareness about EDP. Entrepreneurial Development Program concept; Need for training; phases of EDP.			

Reference Books:

1	Anjan Raichaudhuri, Managing New Ventures Concepts and Cases, Prentice Hall International, 2010.
2	Bhowmik, SR and M. Bhowmik, Entrepreneurship, New Age International, 2007.
3	Cliffton, Davis S. and Fylie, David E. , Project Feasibility Analysis, John Wiley, New York, 1977
4	Desai A. N., Entrepreneur and Environment, Ashish, New Delhi, 1990
5	Donald F Kuratko, Jeffrey S. Hornsby, New Venture Management: The Entrepreneurs Road Map, 2e, Routledge, 2017.
6	Drucker, Peter, Innovation and Entrepreneurship, Heinemann, London, 1985
7	Jain Rajiv, Planning a Small Scale Industry: A guide to Entrepreneurs, S. S. Books,

IV TH SEM

IVth Semester

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fourth Semester	
		Course Credits	3
Course Name	<u>Furniture Design In interiors (Theory)</u>	Lecture Hours total	50hrs

OBJECTIVES:

1. Study the evolution of furniture across time
2. Comprehend the relationship between space and furniture and human dimensions.
3. Different materials and their procedures followed in designing furniture
4. Understand different planning alternatives in arranging furniture.
5. Appreciate how it is applied through real-world initiatives

Unit: 1 History of furniture in the ancient world

20 Hours

Chapter 1:

Introduction to furniture history, Evolution of furniture over a period based on climate, life style, technical and stylistic development availability of materials and various movements in design. Introduction to furniture terminology based on methods of joinery techniques such as parquetry, marquetry gilding and chip

Chapter 2:

Ancient civilization, art, architecture of Egypt. Furniture preserved in ancient pyramids, Furniture developed by Greeks and Romans by 3rd century A. D. utilitarian furniture developed from Romanesque till Gothic times. Gothic cathedrals preserving art, manuscripts, furniture, Renaissance furniture of Italy and France. Baroque and Rococo furniture of 17th century Europe, Neoclassical and Regency period in history of furniture - 18th century,

Unit: 2 Furniture development in England and Oriental furniture development

20 Hours

Chapter 3:

Classification of English furniture indoor, early street, early Georgian, age of Greek designers, Victorian style, the arts and craft movement and designs. Furniture of Japan and China, Indian furniture, traditional and colonial. English furniture from 16th to 18th century, Restoration period, Queen Ann period, Gregorian period, Chippendale.

Chapter 4:

Oriental furniture development ; influences , characteristics , nomenclature usage and materials etc. Difference in basic form, usage & motifs of East and West needs emphasis. Sustainable and eco-friendly designing efforts in contemporary context.

Unit 3: Styles of Furniture and Measurement systems and designing basic furniture items

10 Hours

Chapter :5

Styles of Furniture, Traditional Furniture, Contemporary furniture, Modern furniture's, Types of furniture's used for different purposes, Factors influencing quality of furniture's such as climatic conditions, Furniture's based on family needs and preferences

Chapter : 6

Measurement systems for furnitures, furniture construction features such as shaping, carving, turning, fluting, furniture Materials specifying timber, finishes etc. Study of wood furniture materials such as bamboo, cane, rose wood walnut, cedar, pine and sal.

Chapter 7:

Selection and arrangement of Furniture's for various rooms such as Living rooms, Dining Rooms, Bedrooms, Study rooms, office, Kitchens

Reference Books

1. Joseph Aronson, The Encyclopedia of Furniture: Third Edition ,1961
2. Bradley Quinn, Mid-Century Modern: Interiors, Furniture, Design Details, Conran Octopus Interiors, 2006.
3. Jim Postell, Furniture Design, Wiley publishers, 2007.
4. Edward Lucie-Smith , Furniture: A Concise History (World of Art) , Thames and Hudson,
5. English Furniture Style (1500 – 18) by Ralph E
6. Indian Architecture by Satish Kumar 3. Interior Design by Ahmad Kasu
7. Stepat, D.D, (1971), Introduction to Home Furnishings, The Mac Millan Co,New York.
8. Wilhide, E and Cope stick, I. (2000) Contemporary Decorating, Conron Octopus Ltd., London.
9. Levine M (1998), Living rooms, Rockport Publishers, USA.
10. Faulkner. R and Faulkner. S, (1987), Inside Today's Home, Rinehart Winston,New York.
11. Mullick.P, (2000), Textbook of Home Science, Kalyani Publishers, New Delhi.

Model Curriculum

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Fourth Semester</u>	
		Course Credits	3
Course Name	<u>Furniture Design In interiors (practicals)</u>	Lecture Hours total	60hrs

Course Content

<u>Unit 1: Greek Rome furniture</u>	<u>20 Hours</u>
Sketching of furniture of ancient style - Greek, Roman, Gothic style, Egyptian (4 each).	
<u>Unit 2 Renaissance and English Furniture</u>	<u>20 Hours</u>
Sketching and rendering of Renaissance period – Furniture Baroque, Neo classical, Regency, Rococo and Colonial., Sketching and Rendering of English Furniture,(4each)	
<u>Unit 3: 20th century furniture and Indian furniture's</u>	<u>20 Hours</u>
Sketching and rendering of 20th Century Furniture and Sketching of Indian Furniture- Hindu, Islamic, Saracenic, Rajasthan, Dravidian,(4 Each)	
<u>Note: Colouring can be done using Graphite Pencil/ Colour Pencil/ Pen and Ink.</u>	

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fourth Semester	
		Course Credits	3
Course Name	<u>Interior Construction and Detailing</u>	Lecture Hours total	48hrs

OBJECTIVES:

1. To enable the students, to understand the construction in detail and to learn about the specific.
2. Each students has the various building components design, uses and detailing methods.
3. Provide the students with the opportunities to develop basic supervision skills with respect to simple structures and high-rise buildings
4. This is an advanced study of the building component, their design, and detailing methods.
5. Do a careful detailing of the various components of the buildings.
6. Supervise the construction of buildings and their components.
7. Identify the snags in defective construction detailing.

Course Content:

<u>Unit-1: Arches, Lintels, Carpentry Joints</u>	<u>16 Hours</u>
<u>Chapter-1:</u> Introduction to arches, and lintels terminology, classification of arch - according to shape, classification of arch - according to material, classification of arch according to number of centres.	
<u>Chapter-2:</u> Introduction to lintels - classification according to material, advantages, and its disadvantages,	
<u>Chapter-3:</u> Introduction to carpentry joints principles, classification and terminology in joints, lengthening & widening joints, and angle & oblique joints, bearing & framing joints.	
<u>Unit -2: Doors, Windows & Ventilators</u>	<u>16 Hours</u>
<u>Chapter 4:</u> Introduction to doors: Terminology, evolution of doors, types of doors based on materials – wooden metal & PVC doors, classification of doors based on method - rolling shutters, collapsible doors, sliding doors, special doors and its applications	
<u>Chapter 5:</u> Introduction to windows, terminology, evolution of windows, types of windows based on materials, types of windows based on method, types of windows based on design, special types of windows and its applications and benefits	
<u>Chapter 6:</u> Introduction to Ventilators, types, uses, advantages, and disadvantages. Hardware fixtures used in Doors, windows & Ventilators, types, materials, and uses of fixtures.	
<u>Unit -3: Staircases, False Ceilings, & Roofs</u>	<u>16 Hours</u>
<u>Chapter-7:</u> Introduction to staircases, terminology, types of stairs – straight, dog-legged, circular, spiral, stairs of different material – timber, steel, RCC, balustrades and handrails.	
<u>Chapter-8:</u> Introduction to false ceiling, types of false ceiling & materials used for false ceiling, wooden & gypsum board false ceiling, plaster of Paris false ceiling, PVC and decorative sheets false ceiling, application and its advantages	
<u>Chapter-9:</u> Types of roofs, concept of flat, pitched and arched roofs. Glossary of terms for pitched roofs - batten, eaves, fascia board, gable, hip, lap, purlin, rafter, rag bolt, valley, ridge, rainwater gutter, anchoring bolts, Roof drainage, Roof treatment-brick Koba	

<u>Reference Books</u>
1 Arora, S.P. Bindra, “Text book of Building Construction”, Dhanpat Rai Publications, New Delhi, 2010.
2 Gurcharan Singh, “Building materials”, Standard Publishers Distributors, Delhi, 2016
3 Rangwala, “Building Construction”, Charotar Publishing House Pvt. Ltd., Gujarat, 2008
4 Punmia, B.C.; A Textbook of Building Construction; Laxmi Publications (P) Ltd; New Delhi; 2005.
5 Sushil Kumar, “Building Construction”, Standard Publishers Distributors, Delhi, 2006

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fourth Semester	
		Course Credits	2
Course Name	<u>Interior Construction and Detailing (Practicals)</u>	Lecture Hours total	60hrs
<u>Unit-1: Arches, Lintels, Joints</u>	Drafting different types of arches (any 7 based on points and styles) and lintels (Any 5 on Materials) with all the necessary details. Drafting of different types of joints, (any 10)		<u>20 Hours</u>
<u>Unit-2 :Doors, Windows</u>	Drafting the different types of doors (any 7) and windows with all the necessary details (any 5)		<u>20 Hours</u>
<u>Unit-3 : staircases, False Ceiling, Lift Interiors</u>	False ceiling details (any 3). Drafting different types of staircases based on material and design with all the necessary details (any 3 each) Lift Interiors any materials (anyone)		<u>20 Hours</u>

Model Curriculum

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

Objectives:

- Know the principles and elements of landscaping
- Design landscape for residences
- Estimate the requirement of plants for a landscape
- Plan for a terrace garden

Unit 1: Fundamentals of Landscaping and Landscape design for residential areas

16 Hours

Chapter 1:

Importance and scope of landscape garden, principles of landscape gardening, styles and types of garden, famous gardens of India

Chapter 2:

Definition and classification of plants. Indoor plants and their functions, components of landscapes, Floriculture – commercial, ornamental, Selection of plants & pest control,, factors to be considered, components involved in garden design, interior landscaping and services.

Unit 2: Physical Requirements of plants and Interior landscaping elements

16 Hours

Chapter 3:

Physical requirement of plants – light, temperature, water, planting medium, soil separator, acclimatization & maintenance. Techniques to meet physical requirements. Garden tools and implements

Chapter 4:

Various interior landscaping elements – water bodies - pools, fountains, cascades, Plants, rocks, artifacts, paving & lighting, Design guidelines- plant texture & colour, plant height, plant spacing. Introduction to geology and soils. Introduction to hydrology, hydro cycle, surface water, Groundwater management, sources of ground water pollution and its control

Unit 3: Roof and Deck Landscape and Plant materials

16 Hours

Chapter 5:

Protection of the integrity of the roof and structure, provisions for drainage, light weight planting medium, irrigation, selection of materials, water proofing, provision for utilities and maintenance, Modern trends in gardening – Terrace garden, Rock garden, Bonsai culture, developing ornamental plants in Home garden for flats – roof garden, hanging garden.

Chapter 6:

Plant material-Characteristics and Differentiation between trees, shrubs, ground cover and creepers. Landscape products. Introduction to street furniture and lighting Modification of site topography, grading, methods of estimating earth volumes Layout of plumbing & other utilities Materials & construction of paving & pedestrian paths

Reference Books:

1. Time saver standards for landscape architecture.
2. Theodore D. Walker “Plantingdesign”, VNR Publications New York.
3. Jack E. Ingels “Landscaping Principles and Practices, Delmar Publishers.
4. Bose et al, (1999), “Floriculture and Landscaping”: Calcutta, Naya Prakash, India.
5. Singh, A. and Sisodia. A, (2017) , “Floriculture and Landscaping:, New Delhi: New India Publishing Agency, India.
6. Bruce. S, (2016), “Thinking about Landscape Architecture: Principles of a Design Profession for the 21st century”: New York, Routledge Taylor and Francis group, London.
7. Kumar. N, (1999), “Introduction to Horticulture”, Nagarkoil: Rajalakshmi Publications, “ICAR Publications”, India.
8. Randhawa, G.S, and Mukhopadhy. A, (2000) “Floriculture in India”, Chennai: Allied Publishers, India.

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fourth Semester	
		Course Credits: Fourth Semester	2
Course Name	<u>Interior Design studio for office environments (practicals)</u>	Lecture Hours total	60hrs

Objectives

- To enable the students to learn the Process of interior design and to understand the relationship of space with the of function for basic living activity.
- To enable the students to learn and to convert the creative ideas into practical designs

Course Content:

Unit-1: Case study & Literature Study

12 Hours

Introduction to Designing of a given Interior spaces for various offices such as layout & working methods. Case studies and Literature studies for a given project Interiors and studying various aspects like Requirements, Planning, Circulation, Aesthetics, Furniture design, Material adopted etc.

Unit -2: Data Collection and Requirement & Area Analysis

24 Hours

- 1) Designing the Interior of a given project includes, measured drawings of the site, Observation of special design elements, Analysis of the data collected & creating a design program. Area calculation,
- 2) Client Profile, Requirements, Area Analysis, Bubble Diagram, Block Diagram, Site Analysis

Unit -3: Concept Development and Design Development, Presentation Drawings

24 Hours

- 1) Mind mapping of the design program, arriving and presentation of conceptual design with help of sketches, material samples etc.
- 2) Development of Space with furniture Layout, Flooring Layout, Lighting and wiring layout with legend
- 3) Converting conceptual design into final drawings suitable for execution with anthropometrics. Development of Plans, Elevations, Sections. Working Drawings for office environments(such as office of architects , interior designers office, lawyers office, Insurance office, Corporate office, call centers,Bank office etc(Any 5)

Reference Books

- 1 Ernst and Peter Neufert, “Neufert Architect’s Data”, Wiley Blackwell Publication, United Kingdom, 2012 ISBN:9781 4051 9253 8
- 2 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
- 3 Joseph De Chiara, Michael J Crosbie, “Time Savers Standards for Building Types”, 4 editions, McGraw Hill Education, 2014, ISBN: 9780070163874
- 4 Joseph De Chiara, Julius Panero, “Standards for Interior Design and Space Planning”, McGraw-Hill Professional, 2011, ISBN: 9780 07170 465 6

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fourth Semester	
		Course Credits	2
Course Name	<u>Business Communication(Elective – I)</u>	Lecture Hours total	30 hrs

Objectives:

- 1) To make students equipped with the managerial skill sets to give the solutions to the real-world business problems
- 2) This course provides essentials skills required to do effective in business communication
- 3) Familiarize with the complete course outline/Course Objectives/Learning Outcomes/ Evaluation Pattern & Assignments
- 4) Demonstrate his/her ability to write error free while making an optimum use of correct Business Vocabulary & Grammar
- 5) Distinguish among various levels of organizational communication and communication barriers while developing an understanding of Communication as a process in an organization.

Unit : 1 UNIT-1: Objective and types of communication

10 Hours

Chapter-1

Communication-Defining communication, Process of communication, Communication Model, Objectives of communication, Principles of communication, Importance of Business communication, Importance Feedback,

Chapter-2

Channels of communication, Types of communication, Dimensions of communication, Barriers to Communication, socio-psychological barriers, cross cultural barriers methods to overcome the barriers. Verbal, Non-Verbal, Formal, Informal communication, Fundamental of Business writing, Types of Business letter, Report Writing

UNIT-2: Communication.

10 Hours

Chapter -3

Employment Messages Writing Resume, Application letter, Writing the opening paragraph, Writing the closing paragraph, summarizing, spoken skills Conducting Presentation, Oral presentation, Debates, Speeches, Interview, Group Discussion..

Chapter-4

Barriers to Effective Communication and ways to overcome them, listening: Importance of Listening, Types of Listening, Barriers to Listening and overcoming them, Developing Listening Skills, Conduct of Meeting, Agenda, Notice, Notes, Minutes, Office Memorandum, Office Orders, Press Release, Business Letter Writing, Need, functions & Kinds, Layout of letter writing, Types of letter writing, Report writing, Problems, Organization and techniques of writing.

UNIT-3: Media & Mode of Communication.

10 Hours

Chapter-5

Media and Modes of communication: telephone, mobile phones, internet, print media, electronic communication, video conferencing, films, television, fax; methods of communication: verbal – oral and written; nonverbal communication, body language, gesture, handshakes, posture, eye contact, Forms of communication, one to one communication, group communication.

Chapter- 6

Public relations, objectives of public relations; internal public relations, external public relations; use of mass media in public relations; Interviews, purpose of interviews, types of interviews, Candidate's preparation for the interview, role of the interviewer.

Reference Books

- 1 Ashraf Rizvi M, Effective technical communication, TMH, 2005.
- 2 Chaturvedi P. D, & Mukesh Chaturvedi, Business communication: concepts, cases and applications –2/e, Pearson Education,2011
- 3 Krizan, Merrier, Jones Business communication, 8/e, Cengage Learning, 2012.
- 4 Lesikar, Flatley, Business communication, Rentz & Pande, 11/e, TMH, 2010
- 5 Penrose, Rasberry, Myers, Advanced Business Communication, 5/e, Cengage Learning, 2004. 6
- 6) Raj Kumar, Basic business communication, Excel BOOKS, 2010

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fourth Semester	
		Course Credits	2
Course Name	Portfolio Design for Interiors (Elective –II)	Lecture Hours total	30 hrs
Objectives: <ul style="list-style-type: none"> • Designs which is done in the course is to be compiled and prepared for portfolio development. • Develop and elevate the personal standards for creative involvement • Learn how to write and design a professional resume for creative jobs • By Understand and develop the ways of portfolio building • Build a Strong and creative portfolio for their future Internship and Job perspective 			

Unit 1: Conception & Digital Presentation	12 Hours
Chapter-1 <p>Introduction to portfolio Development, Importance of portfolio, Tools and technique of portfolio making, The process of portfolio development, purposes of Portfolio Development. Types of Portfolios</p>	
Chapter-2 <p>Types of design portfolio, Student portfolio, Internship portfolio, Professional portfolio, Presentation formats, Digital, Manual, Page Layout style, Miscellaneous presentation, Look book, Mailer, Design journal.</p>	
Chapter-3 <p>Digital presentations & manual portfolio presentation - Design thinking, capture with purpose, materials, media, lighting, interior setup, strategies, creating digital images, editing, designing the layout, final thoughts. Research and written communications</p>	
Unit 2: Resume-Cover Letter and Brochure Design	10 Hours
Chapter 4: <p>Digital presentations of Resume/Cover Letter-formulate an effective cover letter and resume for specific industries, development of portfolio, design statement, concept boards, transitions and experiences.</p>	
Chapter 5: <p>Setting up a brochure Design of students Product or a project, working with multipage documents, master pages, page numbers, creating cover, working with page tool, setting up margins, write up for the same</p>	
Unit : 3 Project Design and : Furniture Portfolio Development	8 Hours
Chapter 6 <p>Portfolio as a tool - development of detailed final portfolio of a Project with URL. Development of model, materials, techniques and finishing of the model,</p>	
Chapter 7 <p>Using industry standard prepare a personal Portfolio with URL, Project details, Skills, Freelance designing, Company organization,</p>	

Reference Books:

- 1 Andreas Luescher, The Architect's Portfolio : Planning, Design, Production, Taylor & Francis, Inc., July 2010
ISBN-13: 9780415779012
- 2 Diane Bender, Design Portfolios: Moving from Traditional to Digital Edition 1, Fairchild Publications, ISBN-13: 9781563674839
- 3 Fig Taylor, How to Create a Portfolio and Get Hired, Second Edition: A Guide for Graphic Designers and Illustrators, 2010
- 4 Maureen Mitton, Portfolios for Interior Designers, Wiley Publications, ISBN: 978-0-470- 40816
- 5 Sara Eisenman, Building Design Portfolios: Innovative Concepts for Presenting Your Work (Design Field Guide)

Model Curriculum

Program Title: B.Sc. Interior Design and Decoration		Semester: Fourth Semester	
		Course Credits	2
Course Name	Interior Design for Special Needs (Elective – III)	Lecture Hours total	30 hrs

Objectives:

1. To enable the students to understand the basic principles of acoustical insulation to interior spaces.
2. To learn various methods to manage sound.
3. Design, implement and evaluate a variety of strategies including positive behavioral supports and interventions.
4. Understand and control the design consideration of acoustic design in an enclosed space.
5. Familiarize technical system and advanced technology used in acoustic design.

Course Contents

Unit 1: Introduction, Significance	10 Hours
Chapter-1 Introduction and meaning to special needs, definition of special needs, significance of design, considerations of special needs, purpose of design for special needs in interiors, and guidelines. Housing environments for physically handicapped, old aged people, deaf and dumb mentally retarded.	
Chapter 2: Introduction to people with functional limitations, design for people with functional limitations, approaches to the problems faced by people with special needs, universal design process Universal design principles, designing for flexibility and adaptability, incorporating accessibility features in interior design	
Unit 1: Overview of major disability groups and anthropromatics data	10 Hours
Chapter -3 Overview of major disability groups-visual impairment, hearing impairment, physical impairment, cognitive/language impairment, designer needs approach, design guidelines, universal design needs.	
Chapter 4 Ergonomics factors anthropromatics data , circulation work surfaces for different functions arrangement and clearances , door width , kitchen counter height ,counter width , furniture suggested for them and their details :for reading , studying , dinning ,storing- cloths books and other daily needs ;Recreational activity ,toilet facilities, commercial offices health care .	
Unit 3: Facilities and functional limitations	10 Hours
Chapter 5 Facilities provided in recreational area ,public area etc..public health centers , cinema , ramp , slope , parking areas ,circulation areas , lifts	
Chapter :6 Introduction to people with functional limitations , design for people with functional limitations , approaches to the problems faced by people with special needs . hearing impairment , physical impairment , cognitive/ language impairment , designer needs approach .	

Reference Books:

- 1 Gandotra, V. Oberoi, K., & Sharma, Essentials of Ergonomics. Dominant publishers & distributors. 2005
- 2 Nigel King. Designing for Special Needs: An Architect's Guide to Briefing and Designing for People with Learning Disabilities. RIBA Publications May 2000
- 3 Salvendy, G. Handbook of Human Factors and Ergonomics. In Wiley eBooks. 2012
- 4 Selwyn Goldsmith. Designing for the Disabled: The New Paradigm. Publisher Architectural Press. 1997
ISBN-13978-0750634427.

Model Curriculum

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Fourth Semester</u>	
		Course Credits	2
Course Name	<u>Skill development 1 (Applied arts in Interiors)(Theory)</u>	Lecture Hours total	30 Hours

Objectives:

1. Understand the process of making involved in the creating of various art & craft products and customized materials used in interior design.
2. Develop an appreciation for the art and craft and promote the same through selective sensitive application.
3. Remember the different tools and techniques used in varied forms of applied arts
4. Understand the processes of making involved in the creation of different forms of applied arts.
5. Apply clear knowledge in the process of creating objects of Art and Ornament for Interiors.
6. Create art and craft forms as design elements and their relevant application in Interiors.
7. Evaluate the awareness of the historic and cultural significance of various forms of art and craft, and their use in Interiors

Unit 1: Introduction and Wood and metal working and Ceramic and glass design

10 Hours

Chapter 1.

Meaning and significance of art in the interiors , Factors affecting art forms - Geography, community, materials, individuality and appearance, Developing skills for appreciation of art, Evaluation of art objects - Basic guidelines in evaluating art objects

Chapter 2:

Wood working - tools and techniques for shaping, carving, turning, bending, Materials for frames, Sawn curves, bending, panels, Methods of cutting shapes - straight edged, curved, complex, decorative. Decorating -Painting, Varnish, shellac, lacquer. Metals and Alloys ,Solder joints, Forging, Welding and Cutting with Oxyacetylene torch,

Unit 2: Sculpture and Fabric printing and dyeing and ceramic sculpture

10 Hours

Chapter 3

Ceramics Design and ornamentation - earthenware, stoneware, china, porcelain and terracotta, Processes - Coiling, slab building, throwing, profiling, turning, slip casting. materials and glazes. Glass - glass etching, engraving, cutting, enameling, stained glass techniques, use of glass in homes.

Chapter 4

Ceramic Sculpture - Making Faces essential steps, Modelling and Sculpting Animals - Symbolism in cultural representation of animals, general principles and method - use of sculpture - care and maintenance.

Unit:5 Fabric Aesthetics and Macrame, Decoupage and Glass paint

10 Hours

Chapter 5

Fabric Aesthetics - Texture, Colour, Pattern. Application - Windows, Furniture, Walls, Ceilings. Properties - Cloth, Fiber, Yarn, Construction, Finishing, Dyeing and Printing– Dyeing–Definition and classification – Printing - Hand, Block printing, Tie and Dye, Screen Machine - Discharge, Resist, Stencilling, Fabric painting tools and techniques.

Chapter 6:

Crafts - Macramé - , Decoupage - Design and Process, Decorating with decoupage, Decorative Mosaic - materials and tools, Planning and Designing, Working Methods -Direct techniques, Double direct techniques, Glass painting.

References;

1. A Text Book of Applied Art, Borkar, S. Himalaya Publishing House, Karnataka, 2003.
2. Introduction to Art: Design, Context and Meaning, Sachant. P., University of North Georgia Press, 2016.
3. Basic Pottery Making: All the Skills and Tools You Need to Get Started, Linda Franz (Editor), Stack pole Books; Spi edition, 2009.
4. Complete Illustrated Guide to Shaping Wood, Lonnie Bird, Taunton Press Inc, 2014.
5. Understanding Wood Finishing: How to Select and Apply the Right Finish, Bob Flexner, Pan Macmillan, 1993
6. Metal Working: Real World Know-How You Wish You Learned in High School, Skills Institute Press, Fox Chapel Publishing, 2011.
7. 300+ Mosaic Tips, Techniques, Templates and Trade Secrets, Bonnie Fitzgerald , Trafalgar Square Books, 2012.
8. The Complete Guide to Glass Painting: Over 90 Techniques with 25 Original Projects and 400 Motifs, Alan D. Gear, Barry L. Freestone, Collins & Brown, 2000.
9. Sculpture: Technique, Form, Content, Arthur Williams, Davis Publications Inc., U.S.; 2nd Revised edition, 1994.

PROPOSED SYLLABUS FOR A THREE YEAR
GRADUATE PROGRAM IN INTERIORE 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) Vth and VIth Semester

Submitting to

MANGALORE UNIVERSITY, MANGALORE

BACHELOR OF INTERIOR DESIGN IDD 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>Vth</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	2	2	40	10	50
	Rustic Design for interiors	PRACTICAL	2	2	40	10	50
	Interior Site visit and Interior survey (Practicals viva)	PRACTICAL	2	2	40	10	50
	<u>Skill development 2</u> Interior Model Making workshop	PRACTICAL	2	2	40	10	50
	<u>SUB TOTAL</u>		26	26			

SEM	COURSE TITLES	THEORY/ PRACTICAL	Ins Hours /Week	CREDITS	MARKS		TOTAL
					SA	IA	
<u>VIth</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	2	2	40	10	50
	Interior design Perspective and rendering	PRACTICAL	2	2	40	10	<u>50</u>
	Project work/Internship training	PRACTICAL	10	10	250	50	300
	<u>SUB TOTAL</u>		<u>26</u>	<u>26</u>			

Vth Semester
Model Curriculum

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

Chapter2

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

Chapter 3:

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

Unit 2: Thermal insulation and Acoustics

16 Hours

Chapter 2:

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,

Chapter 3:

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,

Unit 3: Ventilation and Air conditioning, Fire safety design, lifts & escalators

16 Hours

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 rRestaurants			
3 Prepare the layout of large scale commercial spaces and Restaurents 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, Restaurents 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>
<ol style="list-style-type: none"> 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.	

<u>References :</u>
<ol style="list-style-type: none"> 1 Ernst and Peter Neufert “Neufert Architect’s Data”, Wiley Blackwell Publication, United Kingdom, 2012 ISBN:9781 4051 9253 8 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

Objectives

- 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>
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Chapter 1:

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

Chapter 2:

Environmental Responsibility, Energy Efficiency, Indoor Air Quality, Water Efficiency, 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 Matierials</u>	<u>15 Hours</u>
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Chapter 3:

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.

Chapter 4:

Natural materials; Minimal construction waste; Locally produced materials; Non- or less-toxic materials; Durable materials; Rapidly Renewable Materials; Low Maintenance; Reusability; Recyclability; Biodegradability.

Chapter 6:

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>
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Chapter 7:

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

Chapter 8:

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,

Chapter 9:

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.
3	American Institute of Architects; Environmental Resource Guide Subscription. Washington: AIA; 1992.
4	Spiegel, Ross; Green building materials: a guide to product selection and specification. John Wiley & Sons, 2010.
5	Yudelson, Jerry. The green building revolution. Island Press, 2010.
6	Martha Maeda, The Complete Guide to Green Building & Remodeling Your Home, Atlantic Publishing Co. 2011 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

Objectives

- 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

Unit 1: Estimation and Specification

10 Hours

Chapter 1:

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.

Chapter 2:

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.

Unit 2: Wall and Ceiling Estimate and Flooring Estimate

19 Hours

Chapter 3:

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.

Chapter 4:

Flooring Estimation 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

Unit 3: Cabinetry & Furniture and Window treatment Estimation

19 Hours

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

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Fifth Semester</u>	
		Course Credits	3
Course Name	<u>Automation In interiors(Theory)</u>	Lecture Hours total	48 hrs
<u>Objectives</u> <ol style="list-style-type: none"> 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

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Fifth Semester</u>	
		Course Credits	2
Course Name	<u>Rustic Design for interiors (Practical)</u>	Lecture Hours total	60 hrs
<u>Objectives</u> <ol style="list-style-type: none"> 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>
<ol style="list-style-type: none"> 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> <ol style="list-style-type: none"> 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. 5. . 			
<u>Unit 1: Residential Interiors site visit</u>			<u>10 Hours</u>
<ol style="list-style-type: none"> 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>
<ol style="list-style-type: none"> 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 <p><u>Note : After completing unit 1 and unit 2 the students has to prepare a brief report on site visit details with drawings and submit in exams for viva</u></p>			
<u>Unit 4: Interior Surveying</u>			<u>40 Hours</u>
<ol style="list-style-type: none"> 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 bedroom with attached Bathroom and Furniture Layout, Drafting it to scale, Judgment or analysis of a plan, concept of revised plan 4. Measuring a complete space plan residential or commercial drawing it to scale, Judgment and analysis of plan, concept of revised plan 6. Free hand Sketches of different views of room 5. Final Documentation of Existing interior space of one residential, an office or a showroom by preparing following details, floor plan showing a all structural features without any interiors. 			

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

<u>Unit 1: Introduction to Renovation and Importance</u>	<u>16 Hours</u>
<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 .	
<u>Unit 2: Renovation process for various interiors</u>	<u>16 Hours</u>
<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	
<u>Unit 4: Renovation schemes and advantages and alterations</u>	<u>16 hours</u>
<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

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Fifth Semester</u>	
		Course Credits	2
Course Name	<u>Skill development 2 (Model Making workshop) (Practical)</u>	Lecture Hours total	30 Hours

Objectives:

1. Student will able to define attributes of space in scale modeling.
2. Scope of materials in modeling.
3. To develop entrepreneurship in professional model making.
4. Able to precise in interiors & product design.
5. Learn the skills of using tools and materials.

Unit 1: Introduction To Model Making**3 Hours**

Introduction to concepts of model making and various materials used for model making-paper ,cardboard, thermocol, wood etc

Unit 2: Block Modelling**5 Hours**

Preparation of base for models using wood or boards Introduction to block models .(or 3D Compositions) involving the usage of various materials like Thermocol, Soap/Wax, Boards, Clay etc.

Unit 3: Detailed Modelling**22 Hours**

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

- 1) Designing of detailed furniture models (prototype).
- 2) 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

VIth 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 Willey & 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> <ol style="list-style-type: none">1) To get the knowledge about textiles and fabrics and its use in interiors2) To learn about various furnishing in interiors3) 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

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Sixth Semester</u>	
		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> <ol style="list-style-type: none"> 1) To introduce the students by making of complete Interior perspective drawing and the essentials of interior perspective skills. 2) To build their drawing and 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 colours</u>			<u>30 Hours</u>
<ol style="list-style-type: none"> 1) Introduction to pen and ink, colour pencils, colour materials, water colours, poster colours and tools etc. <p style="text-align: center;"><u>The students should render the interior perspective drawing using any of two methods:</u></p> <ul style="list-style-type: none"> • Rendering of interior perspectives with colour pencils and sketch pens <p style="text-align: center;">Or</p> <ul style="list-style-type: none"> • 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

Unit 1: Fabrics & Upholstery

16 Hours

Chapter-1

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

Chapter-2

Upholstery: Introduction, types, materials, skills and techniques. Seating - sofas, chairs, chair pads, cushions - fills. Windows - sheer curtains, curtains, curtain drapes, reflecting textiles and blinds.

Unit-2: Textiles for Rooms

16 Hours

Chapter-3

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,

Chapter-4

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

Unit 3: Interior Accessories, Art & Craft and Sculpture Art, Creative Art

16 Hours

Chapter 5:

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.

Chapter 6:

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

Chapter 7:

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: 978 158093 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

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Sixth Semester</u>	
		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
6. 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

<u>Program Title: B.Sc. Interior Design and Decoration</u>		<u>Semester: Sixth Semester</u>	
		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.