

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> 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
OBJECTIVES: 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> 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 Kutcha 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>
1) Creation of the complete furniture 3D model for interiors by Applying matierials, 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> 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> 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> Merchadising 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> Defintion of advertisement, Importance of advertisement, Classifications of advertisements, features of good advertisement, Preparation and techniques for advertisements, different advertisement medias 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

Program Title: B.Sc. Interior Design and Decoration		Semester: Third Semester	
		Course Credits	2
Course Name	<u>Interior business startup (Elective-III)</u>	Lecture Hours total	30 hrs
Objectives: 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, Conran 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, (any10)	<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: • 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 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	
Chapter-2 Types of design portfolio, Student portfolio, Internship portfolio, Professional portfolio, Presentation formats, Digital, Manual, Page Layout style, Miscellaneous presentation, Look book, Mailer, Design journal.	
Chapter-3 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	
Unit 2: Resume-Cover Letter and Brochure Design	10 Hours
Chapter 4: 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.	
Chapter 5: 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	
Unit : 3 Project Design and : Furniture Portfolio Development	8 Hours
Chapter 6 Portfolio as a tool - development of detailed final portfolio of a Project with URL. Development of model, materials, techniques and finishing of the model,	
Chapter 7 Using industry standard prepare a personal Portfolio with URL, Project details, Skills, Freelance designing, Company organization,	

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

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

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

<u>Unit 1: Introduction, Significance</u>	<u>10 Hours</u>
<u>Chapter-1</u> 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.	
<u>Chapter 2:</u> 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	
<u>Unit 1: Overview of major disability groups and anthropromatics data</u>	<u>10 Hours</u>
<u>Chapter -3</u> Overview of major disability groups-visual impairment, hearing impairment, physical impairment, cognitive/language impairment, designer needs approach, design guidelines, universal design needs.	
<u>Chapter 4</u> 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 .	
<u>Unit 3: Facilities and functional limitations</u>	<u>10 Hours</u>
<u>Chapter 5</u> Facilities provided in recreational area ,public area etc..public health centers , cinema , ramp , slope , parking areas ,circulation areas , lifts	
<u>Chapter :6</u> 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.