

Shri Rawatpura Sarkar University, Raipur



Examination Scheme & Syllabus

for

B.Sc Interior Design Semester – II

(Effective from the session: 2022-23)



**SHRI RAWATPURA SANKAR UNIVERSITY, RAIPUR CHHATTISGARH
FACULTY OF ENGINEERING**

**Three Years B.Sc. Programme
Scheme of Teaching and Examination
B.Sc Second Semester Interior Design**

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the Academic Year 2022-2023)

S.No	Course Code	Course Title	Hours / Week			Credits	Maximum Marks			Sem End Exam Duration (Hrs)
			L	T	P		Continuous Evaluation	Sem End Exam	Total	
1	BSCID201P	Freehand & Measured Drawing	-	-	6	3	30	70	100	4
2	BSCID202P	Furniture Design and Furnishings	-	-	6	3	30	70	100	4
3	BSCID203P	Design Studio-I	-	-	1 2	6	60	140	200	4
4	BSCID204T	Building Materials-II	3	1	-	4	30	70	100	3
5	BSCID205T	Environmental Studies	3	1		4	30	70	100	3
6	BSCID206T	Painting Interior	3	1		4	30	70	100	3
						24			700	



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Course Title	FREEHAND & MEASURED DRAWING				
Course Code	BSCID201				
Course Credits	L	T	P	TC	
	-	-	6	3	
Prerequisites	Draw different types of design, develop design by using motifs				
Course objectives	<ul style="list-style-type: none"> Acquire skill in arranging different areas of a house by using principles by using principles of design 				
Course Contents	<p>UNIT-I Introduction to model making: Need, role of scale models in design, Ceramic designs, stained glass design, grill design. Related experience: Develop a motif suitable for foot mat, window grill, table mat and furnishing materials</p> <p>UNIT-II Design, Design Process, Visual Thinking, Sketching. Related experience: sketching designs</p> <p>UNIT-III Standards & Conventions, Construction Lines, Proportions Drawing types - Diagramming, Geometric Modeling. Related experience: 3-D Solid Modeling</p> <p>UNIT-IV Principles of design in handicrafts and textiles. Related Experience: Apply design concepts in developing greeting card, saree border and floor decorations – flower carpet and rangoli.</p> <p>UNIT-V Art principles in arrangement of: Living room, drawing room, pooja room, bedroom, adolescent boys or girls room, children’s room and birthday party. Related experience: Application of art principles in arrangement of: Living room, drawing room, pooja room, bedroom, adolescent boys or girls room, children’s room and birthday party</p>				
Course Outcome	Learn The Concepts Of Freehand & Measured Drawing				
Text Books	1. Maria Dolors Ros Frijoa, The Art and Craft of ceramics: Techniques, projects, Inspiration, Lark books, 2006. · Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, wiley publishers, 2007 · Mogali Delgade Yanes and				



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	Ernest Redondo Dominquez, Freehand drawing for Architects and Interior Designers, ww.Norton & co., 2005
Reference Books	1. Shah, M.G., Kale, C.M. and Patki, S.Y. Building Drawing: with an integrated approach to built environment, 7th ed. Tata Mc Graw Hill Pub., Delhi, 2000. · Susan Bruce, (2000). The Art of hand built ceramics, Crowood Press



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Course Title	FURNITURE DESIGN AND FURNISHINGS				
Course Code	BSCID202				
Course Credits	L	T	P	TC	
	-	-	6	3	
Prerequisites	Learn about the types and importance of furniture				
Course objectives	<ul style="list-style-type: none"> • Know about the selection, care and arrangement of furniture. 				
Course Contents	<p>UNIT-I Styles of furniture – traditional, contemporary and modern . Furniture for different purpose – meaning need, factors influencing – climatic condition, family needs and preferences, availability, and financial limit.</p> <p>UNIT-II Familiar furniture materials – Wood – teak, rose wood, walnut, cedar, mahogany, pine, birch, sal and Ply wood, Bamboo, Cane, Metals, Plastics, Leathers</p> <p>UNIT-III Selection and arrangement – Furniture for various rooms –Living room, dining room, bedroom, kitchen, study room, office. Principles of design in furniture arrangement.</p> <p>UNIT-IV Construction features of furniture – shaping, carving, turning, fluting, reeding, joining and finishes. Upholstering – techniques and designs.</p> <p>UNIT-V Care and maintenance – wooden furniture, wicker and cane, metal furniture, plastic and upholstered furniture. Wood finishes and furniture polishes.</p>				
Course Outcome	Gain knowledge on propagation methods				
Text Books	<ol style="list-style-type: none"> 1. Stepat, D.D, (1971), Introduction to Home Furnishings, The Mac Millan Co, NewYork. 2. Wilhide, E and Cope stick, I. (2000) Contemporary Decorating, Conron Octopus Ltd., London. 				

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**Reference
Books**

- 1 Levine M (1998), Living rooms, Rockport Publishers, USA.
- 2 Faulkner. R and Faulkner. S, (1987), Inside Today's Home, Rinehart Winston, New York.
- 3 Mullick.P, (2000), Textbook of Home Science, Kalyani Publishers, New Delhi.



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Course Title	DESIGN STUDIO- I				
Course Code	BSCID203				
Course Credits	L	T	P	T C	
	-	-	12	6	
Prerequisites	Space Planning provides a specific design methodology for understanding the nature of space, scale, functionality aspects, aesthetics aspect and representation of the same in a professional manner.				
Course objectives	Design Studio-Space and Planning will: <ul style="list-style-type: none"> • Prepare a base for the students to gain an understanding into the fundamental issues of designing spaces and develop the skill to create floor plans considering all the factors affecting spatial composition. • Assess the role of mechanization in the establishment of contemporary design practice 				
Course Contents	UNIT-I Basic anthropometrics – average measurements of human body in different postures – its proportion and graphic representation, application in the design of simple household and furniture. Role of mannequins in defining spatial parameter of design. Basic human functions and their implications for spatial planning. Minimum and optimum areas for various functions. Preparing user profile, bubble and circulation diagrams. UNIT-II Introduction to design methodology. Detailed study of spaces such as living, dining, bedrooms, kitchen, toilet etc. including the furniture layout, circulation, clearances, lighting and ventilation, etc. Case study of existing house and analysis of the spaces. UNIT-III Visual analysis and representation of designed spaces noted for comfort and spatial quality; analysis of solid and void relations, positive and negative spaces				
Course Outcome	At The End Of The Course Student Will Be Able To:- <ul style="list-style-type: none"> • Develop a research and case study methodology amongst students to carry out a brief practice in connection to the typology of projects they would execute. 				
Text Books	1. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992. 2. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for				



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	Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
Reference Books	<ol style="list-style-type: none">1. The Interior Design, Reference + Specification Book – Chris Grimley + Mimi Love2. Kitchen and Bath – Products and Materials- Ellen Cheever, CMKBD, ASID, CAPS –AKBA•



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Course Title	BUILDING MATERIALS-II				
Course Code	BSCID204				
Course Credits	L	T	P	TC	
	3	1	-	4	
Prerequisites	To know the basic materials used in Building				
Course objectives	<ul style="list-style-type: none"> •To understand the methods of its usage in interiors 				
Course Contents	<p>UNIT - I Rolling steel shutter door, Swing door, Revolving door, Flush- Door: - Mention their materials and uses in interiors. Types of Window; Sliding window, Single-Hung window, Double- Hung Windows, Bay windows, Bow windows, Garden Windows, Arched window, Jalousie Windows, louvered windows, sky lighters- Mention their materials and uses in interiors</p> <p>UNIT- II Flooring material :- Tile : Ceramic Tile, Vitrified Tile, Terracotta Tile, brick and Interlocks, Marble Flooring, Granite Flooring, Wooden flooring ,Glass flooring, P.V.C Flooring, Rubber Flooring:- Mention its uses, Installation, Procedure, Polishing, Care and Maintenance</p> <p>UNIT -III Timber and its usage in construction - Introduction and properties of good timber, defects in timber. Timber - As a building material, seasoning and preservation of timber, hardwood and softwood. Industrial timber - Ply woods, block boards, fiber board.</p> <p>UNIT- IV Ferrous and non-ferrous metals - Introduction and properties. Alloys and its application in interiors. Steel and its application, steel alloys. Aluminum and its application in interiors, aluminum alloys.</p> <p>UNIT- V Plastics and miscellaneous materials - Introduction and properties. Types of plastics, use of plastics in interiors, fiber plastic, silicon and its usage.</p>				
Course Outcome	<p>At The End Of The Course Student Will Be Able To:- To Understand The Importance Of Building Materials</p>				

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Text Books	<ol style="list-style-type: none">1. W. B Mickey – Building Construction Vol 1 and 3 – Longmans, UK 19812. S.C. Rangawala – Engineering Materials – Charotar Publishing, Anand3. . R. Chudley – Building Construction Handbook- BLPD, London 1990
Reference Books	<ol style="list-style-type: none">1. Harold B Olin – Construction Principles, Materials and Methods – IFE, Chicago, 1980. 5. Dr B.C Punmia – Building Construction



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Course Title	ENVIRONMENTAL STUDIES				
Course Code	BSCID205				
Course Credits	L	T	P	TC	
	3	1	-	4	
Prerequisites	BASIC SCIENCE				
Course Objectives	<p>Upon completion of the course the student shall be able to</p> <ul style="list-style-type: none"> • Create the awareness about environmental problems among learners • Impart basic knowledge about the environment and its allied problems. • Develop an attitude of concern for the environment. • Motivate learner to participate in environment protection and environment improvement. • Acquire skills to help the concerned individuals in identifying and solving environmental problems. <p>Strive to attain harmony with nature.</p>				
Course Contents	<p>UNIT -I</p> <p>The multidisciplinary nature of environmental studies Definition, scope and importance. Need for public awareness</p> <p>UNIT- II</p> <p>Natural Resources: Renewable and non-renewable resources: Natural resources and associated problems.</p> <p>(a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.</p> <p>(b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.</p> <p>(c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. (d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.</p> <p>(d) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies.</p> <p>(e) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. · Role of an individual in conservation of</p>				



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	<p align="center">natural resources. · Equitable use of resources for sustainable lifestyles.</p> <p>UNIT -III</p> <p>Ecosystems · Concept of an ecosystem · Structure and function of an ecosystem · Producers, consumers and decomposers Energy flow in the ecosystem Ecological succession Food chains, food webs and ecological pyramids Introduction, types, characteristic features, structure and function of the following ecosystem: a. Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, ocean estuaries)</p> <p>UNIT -IV</p> <p>Biodiversity and its conservation · Introduction – Definition: genetic, species and ecosystem diversity · Biogeographical classification of India · Value of biodiversity: consumptive use, productive use, social, ethical aesthetic and option values Biodiversity at global, national and local levels · India as a mega-diversity nation · Hot-spots of biodiversity · Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts · Endangered and endemic species of India · Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity</p> <p>UNIT -V</p> <p>Environmental Pollution Definition · Causes, effects and control measures of: a. Air pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear pollution · Solid waste management: Causes, effects and control measures of urban and industrial wastes. · Role of an individual in prevention of pollution · Pollution case studies · Disaster management: floods, earthquake, cyclone and landslides</p>
<p>Course Outcomes</p>	<p>On the Completion of this course successfully student will be able to analyze the nature as per the modern scientific context of environmental change.</p>
<p>Text Books</p>	<ol style="list-style-type: none"> 1. Charles George Ramsey, Harold Reeve Sleeper, “Architectural Graphic Environment and Ecology by Piyush Kant Pandey and Dipti Gupta (Sum India Publication) 2. A Textbook of Environmental Chemistry and Pollution Control by S.S. Dara (S. Chand and Company) 3. Masters, G.M. Introduction to Environment Engineering and Science (Prentice Hall of India). 4. Environmental Chemistry by A.K. Dey (Eastern Ltd.).



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Reference Books	<ol style="list-style-type: none">1. Nebel B.J. Environmental Science (Prentice Hall of India-1987).2. Environmental Biotechnology by S.N. Jogdand (Himalaya Publishing House).3. Introduction to Environmental Biotechnology by A.K. Chatterji (Prentice Hall of India).
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Course Title	PAINTING INTERIOR				
Course Code	BSCID206				
Course Credits	L	T	P	TC	
	3	1		4	
Prerequisites	Understand the Painting in interior				
Course objectives	<p>This course will enable students to:</p> <ul style="list-style-type: none"> • Learn the importance of Painting in the creation of new design. 				
Course Contents	<p>UNIT-I</p> <p>Drawing Equipment – Supports – Canvas, Boards, Panels and papers – water colour and oil painting – Brushes-water colour and oil paint – Developing design on various supports with different brushes.</p> <p>UNIT-II</p> <p>Painting Media – Water colour – gouache, Tempera and Acrylics – Oils-paints, binders, diluents, mediums palettes and accessories – Developing wall hangers.</p> <p>UNIT-III</p> <p>Techniques of drawing – Line – Points – Tone – Wash – Texture – Developing greeting cards using different techniques.</p> <p>UNIT-IV</p> <p>Colour and composition – Colour-language, tonal value, mixing, colour expression and colour contrast – Composition-creating focal points – Evaluating three famous artists work – Submission of a record.</p> <p>UNIT-V</p> <p>Paints– Protective coating paints, types of paints – water paints, distempers, cement based paints, emulsion paints, anti corrosive paints etc. – composition, functions,</p>				



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	preparation and application method, painting on different surfaces, defects in painting etc Varnishes (oil and spirit) – various types – French polish, damp proofing finishes etc. and methods of application
Course Outcome	At The End Of The Course Student Will Be Able To:- <ul style="list-style-type: none">• 1 Impart knowledge in recent trends in colour
Text Books	<ol style="list-style-type: none">1. Ahmed A Kasu, “An Introduction to Art, Craft, Technique, Science & Profession of Interior Design”, Ashish Book Centre, Mumbai, India, 2005.2. 2. Caroline Clifton-Mogg, et. al., “The complete Home Decorator”, Conran Octopus, 1995.
Reference Books	<ol style="list-style-type: none">1. Faulkner S, Faulkner R N, “Inside Today’s Home”, Holt, Rinehart & Winston, 1968.2. Harriet Irene Goldstein, Vetta Goldstein, “Art in Everyday life”, MacMillan Publication, 1932.3. Pratap R M, “Interior Design Principles and Practice”, Standard Publications, Delhi, 2012



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