

Scheme and Syllabus

B.Sc. (Interior Design & Decoration)

(I & II Semesters)

Academic year 2021-2022 onwards

DEPT. OF APPAREL TECHNOLOGY & MANAGEMENT JNANABHARATHI CAMPUS, BANGALORE

PREAMBLE

Interior Design is a multi-faceted profession in which creative and technical solutions are applied within a structure to achieve a built interior environment. These solutions are functional, enhance the quality of life and culture of the occupants and are aesthetically attractive. The interior design process follows a systematic and co-ordinated methodology, including research, analysis and integration of knowledge into the creative process, whereby the needs and resources of the client are satisfied to produce an interior space that fulfills the project goals.

The professional interior designer is qualified by education and experience to enhance the function and quality of interior spaces for the purpose of improving the quality of life, increasing productivity, and protecting the health, safety, and welfare of the public. An interior designer may wish to specialize in a particular type of interior design in order to develop technical knowledge specific to that area. Types of interior design include residential design, commercial design, hospitality design, healthcare design, universal design, exhibition design, spatial branding, etc. The profession of Interior Design is relatively new, constantly evolving, and often confusing to the public. It is an art form that is consistently changing and evolving and relies on research from many fields to provide a well-trained designer influenced by their environments.

The main objective of the B.Sc. / B.Sc. (/Hons.) in Interior Design and Decoration Programme is to impart students a holistic understanding of the subject giving substantial weightage to the core contents, skill, value-based and ability enhancement courses.

The curriculum caters to the developmental trends in higher education, incorporating multidisciplinary skills, professional and soft skills and inculcating human values, professional ethics, and the spirit of innovation/entrepreneurship and critical thinking among students and promoting avenues for display of these talents, linking general studies with professional courses. Besides imparting disciplinary knowledge to the learners, curriculum aims to equip the students with competencies like problem solving, analytical reasoning and moral and ethical awareness.

Programme Objectives

- 1. To impart the characteristics of design and its application in interiors to acquire the practical skill of creating designs.
- 2. To apply anthropometric and ergonomic concepts in interiors and furniture designs.
- 3. To provide knowledge of building elements, construction and finishing materials and its applications.
- 4. To develop communication and presentation skills.
- 5. To provide hands on experience on building services such as electrical, plumbing, rain water harvesting, sanitation, heating, ventilation, air conditioning, acoustics, damp proofing, fire and termite proofing.
- 6. To provide expertise of designing interior spaces of residence, offices, educational institutions, hotels and hospitals.
- 7. To equip students to apply the concept of restoration, preservation and rehabilitation of heritage and old buildings.

Programme Outcomes

By the end of the Programme the students will

- 1. Develop knowledge and understanding of creativity to appreciate the essence of art and design.
- 2. Analyze the graphical language in design, exposure to type of building materials in interiors.
- 3. Develop sound knowledge of basic anthropometrics related to interior furniture, building materials usage and its application procedures in Construction industry.
- 4. Draw and compose furniture's sketch to an appropriate paper scale, relating to actual scale within the given drawing sheet.
- 5. Identify matrix for understanding the process involved in interior design.
- 6. Visualize the drawings from 2D level to 3D level in modelling design soft wares.
- 7. Develop an understanding of the history and ancient development in Interiors around the world.
- 8. Develop knowledge and understanding of calculation of quantities and cost estimates in interior works.
- 9. Undertake an Interior design layout for a residence scale with detailing of furniture required for the project
- 10. Design retail shops and showrooms which involves many aspects from small furniture to space planning and Lighting etc.
- 11. Have developed knowledge and understanding of Textiles used in Interior works and Accessories involved in many areas along with Landscaping within the Interiors.
- 12. Design Interiors for corporate offices, hotels and hospitals of varying sizes and standards.
- 13. Develop knowledge and understanding of renovation and restoration of the buildings with respect to interiors.
- 14. Develop knowledge and understanding in Journalism, sustainability and human resource management methods.

Scheme of Examination

	B.Sc. (INTERIOR DESIGN AND DECORATION)							
	SEMESTER – I							
		Theory/	Instructi	Duration		Marks	CREDIT	
CODE	Course	Practical	on	of Exam	IA	Exam	Total	
			Hrs/wk	(Hrs)				
	Language I	Theory	4	3	40	60	100	3
	Language II	Theory	4	3	40	60	100	3
ID1.1 T	Fundamentals of	Theory	3	3	40	60	100	3
ID1.1 P	Interior Design	Practical	4	4	25	25	50	2
ID1.2 T	Construction Materials	Theory	3	3	40	60	100	3
ID1.2 P	- I	Practical	4	4	25	25	50	2
ID1.3 P	2D &3D Graphics	Practical	6	4	50	50	100	3
ID-OE-1	Open Elective	Theory	3	3	40	60	100	3
	SEC	Theory+ Practical	1+2	2	25	25	50	2
	PE-Yoga	Practical	2	-	25	-	25	1
	H&W	Practical	2	-	25	-	25	1
					375	425	800	26

	SEMESTER – II							
		Theory/	Instruct	Duration		Marks	CREDIT	
CODE	Course	Practical	ion	of Exam	IA	Exam	Total	
			Hrs/wk	(Hrs)				
	Language I	Theory	4	3	40	60	100	2
	Language II	Theory	4	3	40	60	100	2
ID2.1 T	Ergonomics	Theory	3	3	40	60	100	3
ID2.1 P		Practical	4	4	25	25	50	2
ID2.2 T	Construction Materials -	Theory	3	3	40	60	100	3
ID2.2 P	II	Practical	4	4	25	25	50	2
ID2.3 P	CAD in Interiors - I	Practical	6	4	50	50	100	3
ID-OE-2	Open Elective	Theory	3	3	40	60	100	3
	SEC	Theory +Practical	1+2	2	25	25	50	2
	PE-Sports	Practical	2	-	25	-	25	1
	NCC/NSS/R&R/CA	Practical	2	-	25	-	25	1
					375	425	800	26

Exit option with Certificate in Interior Design & Decoration with minimum 48 credits

Open Electives Offered I Semester -

Basics of Interior Design (or) Colour Concepts in Interiors

II Semester – Home Décor (or) Landscape

I Semester ID 1.1 T – Fundamentals of Interior Design (Theory)

Number of Theory	Number of lecture	Number of practical	Number of pra	actical hours
Credits	hours /semester	credits	/seme	
3	42	2	56	5
 Identify differ Justify design Propose desig behavior. 	ent structural and deco concepts and apply ap m solutions based on of Design	-	planning, user p	
•	e	en Interior design and de	1 /	
of the designer and dec				
0		f design - Structural a	and decorative.	
_		stic, stylized, geometric		
	e	of good design, Evalu		
design-criteria for eval	uation.		-	
UNIT 2: Elements an	d Principles of Desig	n		20 Hours
Chapter 4: Elements of	of Design – Point, Line	e, Shape and Form, Tex	ture, Space and	
Pattern – Meaning, in	nportance, characteris	tics of each element a	nd their use in	
designing.				
Chapter 5: Principles	s of Design – Balance	e, Proportion, Rhythm,	Emphasis and	
Harmony - Meaning, t	ypes and significance	in designing.		
Chapter 6: Application	ement, Interior			
display and Furniture,	Carpets.			
UNIT 3: Colour and	Colour Application:			12 Hours.
Chapter-7: Introduction	on to Concept of color	- significance of colour	in the interiors	
and exteriors-Dimensi	ons of colour –Hue, v	value, intensity, Effects	s of Hue, value	

and Intensity, Colour Schemes and types, Colour harmonies in interiors and	
exteriors.	
Introduction to Colour Schemes and types, Colour harmonies-related and contrast,	
Advanced and receding factors considered in selecting colour harmonies,	
Application of colour harmonies in the-Effects of light, form, surface qualities,	
distances and scales on colour, Illusion of colour, effect of colour on each other	
Chapter-8: Psychological impact of colour - warm, cool and neutral colours,	
impact of specific hues, Problems with colour, use of colour in various functional	
contexts – Residential interiors, Non-Residential interiors, Use of colour in special	
situations – out door/indoor spaces, accessories, art works	
Chapter- 9: Colour Systems: Prang and Munsell colour systems in practice,	
simplified colour system, colour terminology, special colour issues, mixed colour	
effects, effects of texture, using colour systems.	

I Semester ID 1.1 P – FUNDAMENTALS OF INTERIOR DESIGN (Practical)

ſ	No. of practical Credits – 2	Number of practical hou	rs - 56
UNIT-1	Basic Application of Design		
	Types of Design: Structural and deco	orative design	12 Hours
	Decorative designs: Naturalistic, styl	ized, geometric and abstract.	
UNIT-2	Basic Application of elements of I	Design in interior Design- Line,	
	Point, form and shape, size, colour, l	ight, pattern, texture and space.	18 Hours
	Basic Application of principles of des	sign in interior Design Balance,	
	rhythm, emphasis, harmony, proport		
UNIT-3	Dimensions of colour -Hue, value, in	ntensity, Colour Wheel.	
	Colour Schemes: Harmonious Colo	or Schemes: Monochromatic &	
	analogous		
	Non Harmonious Colour Schemes	: Triad, Complementary, Spilt	26 Hours
	Complementary, Double Complement	ntary, Tetrad, Poly Chromatic.	

Neutral colour harmonies & Accented Neutral.	
Impact of Colors on Psychology: Advancing, Receding, Warm &	
Cool Color.	

References

1. Charles George Ramsey, Harold Reeve sleeper, "Architectural Graphic Standards", Paperback Publishers, 11th Edition.

2. Ivo.D. Drpic, "Sketching and Rendering of Interior Space", Watson Guptill, 1988.

3. Maureen Mitton, "Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques", 3rd edition, Wiley Publishers, 2007.

4. MogaliDelgadeYanes and Ernest Redondo Dominquez, "Freehand drawing for Architects and Interior Designers", Norton & co., 2005.

5. Stephen Kliment, "Architectural Sketching and Rendering: Techniques for Designers and Artists", Watson Guptill, 1984.

I Semester ID 1.2 T – CONSTRUCTION MATERIALS I (Theory)

Number of Theory	Number of lecture	Number of practical	Number of practical hours
Credits	hours /semester	credits	/semester
3	42	2	56

Course outcomes: On successful completion of the course, the students will be able to

- Identify and understand the application of bricks, stone, cement, timber, metal, and plastics based on properties and types.
- Understand the industrial trends of the building materials.
- Understand the methods of interior construction techniques.

1	
UNIT 1: Brick & Stone Masonry	15 Hours
Chapter-1: Brick masonry- Bricks in interiors, Manufacturing process, physical	
and chemical properties Applications: Foundation, wall material, types of brick	
walls, brick masonry (English, Flemish, rat trap bond) detailed brick layout at	
corners, junctions and brick piers, style of construction. Exposed brick work,	
madras terrace roof, jack arch roof, brick paving, brick arches and domes, reinforced	
brick roofs and walls, brick piers, Types of bricks - traditional, wire cut, moulded	
bricks and its sizes, etc.	
Chapter-2: Stone masonry Introduction, Properties and applications. Types of	
stones, dressing of stones, finishes, its application in interiors. Geological	
Classification of rocks – stones (granite, laterite, quartzite, marble, slates),	
Chapter-3: Uses of stone, deterioration & preservation of stone, availability,	
properties and application of stones for construction in India. Stone for finishing,	
cutting & polishing. Granite & Marble. Types of stone masonry.	
UNIT: 2 Cement, Mortar & Asphalt & Bitumen	15 Hours
Chapter-4: Cement and its application Properties of cement, Types of cement –	
Portland, Pozzolana etc.	
Chapter-5: Mortar its application properties Types of mortar lime mortar and	
cement mortar, Concrete and admixtures, R.C.C, R.B. concrete.	
	1

Chapter-6: Definition, classification, properties, uses. Of Bitumen and Asphalt in	
Interiors	
UNIT: 3 Timber, Metal, Plastics	12 Hours
Chapter-7: Timber and its usage in construction Introduction and Properties.	
Timber – as a building material, Seasoning & preservation of timber, Hardwood &	
softwood. Industrial timber – Ply woods, Block boards, Fibre board Market survey	
– sizes & rates, brands.	
Chapter-8: 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	
Chapter-9: Plastics and miscellaneous Materials Introduction and Properties,	
Types of plastics, use of plastics in interiors, fiber plastic, silicon and its usage.	

I Semester ID 1.2 P – CONSTRUCTION MATERIALS I (Practical)

N	No. of practical Credits - 2	Number of practical hours	5 - 56
UNIT-1	Type of stones available in Marke	et Application of Stones, Market	
	Survey on stones and Market Rates	of stones. Sketching of different	16 Hours
	types of Stones-representation skills.		
	1. Data collection, Market study	y, Survey, Rate analysis.	
	2. Representation techniques -S	ketching, Drawings and drafting.	
UNIT-2	Drafting of Brick Wall plan and e	levations using different bonding	16 Hours
	agents. Brick Bond, Stretcher, and H	leader, English and Flemish bonds	
	and Market Survey on Types of Bric	ks &Rates.	
	1. Data collection, Market study	y, Survey, Rate analysis.	
	2. Representation techniques -S	ketching, Drawings and drafting.	
UNIT-3	Types of Timber- Identification, Prop	perties and application in Interiors,	
	Market Survey on Types of Timber	r available in market, Plywood's,	24 Hours
	MDF, Veneer		

Site visits to Timber yard, Stone Showrooms and Brick Kiln, make a	
Report on the Process of Preparation of Bricks, Report on Timber	
Preservation, Cutting Process of Timber.	
1. Data collection, Market study, Survey, Rate analysis.	
2. Representation techniques -Sketching, Drawings and drafting.	

References

- 1. Chakraborti "Civil Engineering Drawing." Bhaktivedanta Book Trust, Kolkata. 2015.
- 2. Gurucharn Singh, "Building Materials." Standard Publishers and Distributers, Delhi, 2014.
- 3. Sanjay Mahajan "Building Construction I and II". Satya Prakashan, New Delhi, 2014.
- 4. Sucheta Singh, Veena Gandotra and Promila Sharma, "Organic Building Materials in Residential constructions." Concept Publishing Company, New Delhi., 2009.
- 5. Sushil Kumar, "Building Construction." Standard Publishers and Distributers, Delhi, 2018.

I Semester ID 1.3 P: 2 D & 3 D GRAPHICS (Practical)

No. of practical Credits - 3		Number of practical hou	ırs - 84					
Course o	utcomes: On successful completion of	of the course, the students will b	e able to					
	• Apply the fundamental techniques of architectural representation with a thorough knowledge of interior presentation techniques.							
	nance the skills in developing a graphi							
• Lin	lance the skins in developing a graphi	cal language of interior design.						
UNIT-1	Drafting of Different Types of line	es, different types of lettering,						
	symbols used in architecture, dimer	sioning, and scales. Rendering	16 Hours					
	Skills, Material Representations							
	1. Exercises in lettering, scale.							
	2. Representation techniques -S	ketching, Drawings and						
	drafting.							
UNIT-2	Introduction to Euclidean geometrical constructions. Construct and regular polygons. Development geometrical shapes and their applicat	tion of triangles, quadrilaterals at of simple surfaces of basic	12 Hours					
	1. Rendering using various med	ia, hatching techniques.						
	2. Representation techniques	-Sketching, Drawings and						
	drafting.							
UNIT-3	Arches - typical arches and construct Plane curves - ellipse, parabola, hyp methods.		16 Hours					
UNIT-4	Orthogonal projections, drafting of	plans and elevations of various						
	types of objects, Development of Sur	rfaces of Objects. Constructions	16 Hours					
	of Geometrical Shapes,							
	1. First angle projection, glass b	oox technique.						
	2. Representation techniques -S	ketching, Drawings and						
	drafting.							

UNIT-5	Drafting of Isometric Views, Axonometric Views and Oblique	
	Views, Different objects and Interior related views & Objects.	12 Hours
	1. Isometric projections of various objects and interior views.	
	2. Representation techniques -Sketching, Drawings, drafting	
	and rendering.	
UNIT-6	Drafting of Perspective drawing of simple and complex objects, one	12 Hours
	point and two-point perspective of Interiors and exteriors, sectional	
	perspectives	
	1. Perspective drawing procedures step by step. Drawing	
	perspectives of various objects and interior views.	
	2. Representation techniques -Sketching, Drawings, drafting	
	and rendering.	

References

- Charles George Ramsey, Harold Reeve Sleeper, "Architectural Graphic Standards", 11th edition, Paperback Publishers.
- 2. Francis D. K. Ching, "Architectural Graphics", John Wiley and Sons, 2012.
- 3. Ivo. D. Drpic, "Sketching and Rendering of Interior Space", Watson Guptill, 1988.
- 4. Martin, L. C, "Architectural Graphics", 2nd edition. Macmillan Pub. Co., 1970.
- Maureen Mitton, "Interior Design Visual Presentation: A Guide to graphics, models and Presentation Techniques", 3rd edition, Wiley Publishers, 2007.
- 6. Stephen Kliment, "Architectural Sketching and Rendering: Techniques for Designers and Artists"
- 7. Zell, Mo., "The Architectural Drawing Course", 1st edition, Thames and Hudson, 2008.

II Semester ID 2.1 T – ERGONOMICS (Theory)

Number of Theory	Number of lecture	Number of practical		of practical
Credits	hours /semester	credits		semester 56
3 Course outcomes: O	42 n successful completi	2 on of the course, the st	_	-
 Course outcomes: On successful completion of the course, the students will Apply Ergonomic concepts in everyday life and in various interior desig Use anthropometrical data of static and dynamic activities for design dev Understand the importance of space planning. 				
UNIT 1: Introduction	to Ergonomics.			12 hours
Chapter-1: Meaning	of Ergonomics, Co	oncept, objectives, Ap	pplications,	
Ergonomic Factors Ap	plicable to design.			
Chapter-2: Anthropo	ometry- Introduction	to Anthropometry,	Types of	
Anthropometric Data-	Static and Dynamic	Anthropometric data ne	ecessary to	
design. Anthropometri	c considerations in des	sign development.		
Chapter-3: Ergonomi	cs for seated and stand	ling work.		
UNIT 2: Application	of Ergonomics in Re	sidential spaces.		15 hours
Chapter-4: Furniture	used in residential sp	aces and their dimensi	ions. Space	
requirements and alloc	ation in living rooms,	bedrooms, Dining roon	ns.	
Chapter-5: Ergonomi	cs in wash rooms: Va	rious fixtures used in v	washrooms.	
Dimensions of various	fixtures. Space require	rements in Toilets, pow	der rooms,	
bathrooms.				
Chapter-6: Ergonom	ics in Kitchens: Erg	onomic triangle. Diffe	erent work	
centers in Kitchens. Ty	pes of kitchen.			
UNIT 3 Ergonomics			1	15 hours
	arements in office spa	ces: reception areas, we	ork centers,	
conference rooms.				
Chapter-8: Space requirements in Restaurants: Space allocation in Alcove				
configuration, Parallel configuration, and Diagonal configuration.				
Chapter-9: Space requ	uirements for public w	ashrooms with universa	al access.	

II Semester ID 2.1 P – ERGONOMICS (Practical)

No. of practical Credits - 2	Number of practical hours - 56
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UNIT 1	Anthropometric measurements and vertical and horizontal reach.	16 Hours
	Various human postures with dimensions: standing, sitting,	
	cross legged, crawling, reclining.	
	1. Drawings and sketching of postures.	
	2. Representation techniques -Sketching, Drawings,	
	drafting and rendering.	
UNIT 2	Determination of work surface height, depth, Comfortable work	20 Hours
	chair height.	
	Standard Furniture dimensions.	
	Furniture used and space requirements in residential spaces with	
	dimensions	
	1. Measuring of various furniture and spaces, its	
	relationship with human postures.	
	2. Representation techniques -Sketching, Drawings,	
	drafting and rendering.	
UNIT 3	Space allocations in residential washrooms, public washrooms	20 Hours
	and washrooms with disability needs.	
	Space allocation in public spaces.	
	1. Activity and behaviour based measurements and its	
	importance in Interiors.	
	2. Representation techniques -Sketching, Drawings,	
	drafting and rendering.	

References

1. Bridger. R. S., "Introduction to Ergonomics." Mc. GrawHall Inc, New York, 1995.

- 2. Chiara J.D., Panero.J., Zelnik M., "Time Saver standards for Interior Design and Space Planning", McGraw Hill, Neuferts Architect's Data, 1992.
- 3. Lakhwinder Pal Singh, "Work Study and Ergonomics." Cambridge University Press, Noida, 2016.
- 4. Mark. S. Sanders and Ernest. J. Mc. Cormick, "Human Factors in Engineering and Design." Mc. GrawHall Inc, New York, 1992.
- 5. Pheasant S, "Anthropometry, ergonomics and Design of work", Taylor and Francis, London, 2003.

II Semester ID- 2.2 T: CONSTRUCTION MATERIALS- II (Theory)

Number of Theory CreditsNumber of lecture hours /semesterNumber of practical creditsNumber of hours /se	practical		
$\frac{3}{3}$ $\frac{42}{2}$ $\frac{2}{5}$			
Course outcomes: On successful completion of the course, the students will b			
 Explain the components and materials within the building. Analyze the properties of various building materials. Develop interior spaces with suitable construction materials. 			
UNIT 1: Foundations & Structure	16 Hours		
Chapter-1: Foundations, footings, Beams and slabs- Introduction, types and			
application Different Types of foundations and its use based on the soil. Different			
types of footings beam slabs,			
Chapter-2: Walls & Wall Finishes: types of walls, load bearing walls and non-			
load bearing walls. Different partitions - wood, gypsum, glass, metal and			
combination. Wall finishes: Wood paneling, plaster, gypsum board, paint, stone			
wall panels, acoustic panels, upholstered wall systems, wall coverings-wallpaper.			
Chapter-3: Sill Lintels and Chajjas – Introduction, types and application			
Terminology, Different Types of Sills, lintels Chajjas based on material and use.			
Damp Proofing & Termite Proofing - Dampness - Concept, causes and effects.			
Techniques and methods of damp prevention. Materials used for damp proofing.			
UNIT 2: Flooring	13 Hours		
Chapter-4: Flooring– Introduction, Different types of flooring and its usage in			
interiors.			
Chapter-5: Natural Flooring: Different of Stone flooring, Advantages, Dis			
Advantages and application. Cement and brick flooring, wooden flooring.			
Chapter-6: Artificial Flooring and application. Resilient flooring. Ceramic tile			
flooring, Vitrified, Terrazzo flooring, and Soft flooring.			
UNIT 3: Paints and Glass in Interiors	13 Hours		

Chapter-7: Paints – Introduction, types and application. Characteristics of good	
paint - its ingredients. Method of proper application of paint and polishes -	
painting process. Types of paints -oil and water-based paints.	
Chapter-8: Different Polishes, Wall papers and finishes and its applications.	
Chapter-9: Glass in Interiors- Introduction, types and application Glass -	
different types of glasses, and its uses in interiors, Glass and glass products -	
Composition and fabrication of glass, classification, types of glass- wired glass,	
Fibre glass, rock wool, laminated glass, Glass concrete blocks - their properties	
and uses in buildings.	

II Semester ID- 2.2 P: CONSTRUCTION MATERIALS- II (Practical)

No. of practical Credits - 2		Number of practical	hours - 56
UNIT-1	Drafting of Plans Elevations and s	ections different types of	20 Hours
	Walls and partition walls.		
	Drafting of Different Types Footin	ngs, Columns, Slabs, Chajjas,	
	Lintels, visit to a construction site	and make a report on it.	
	Site Visit		
UNIT 2	Types of Flooring, and its Applica	18 Hours	
	showroom, study report and rate a	nalysis of different types of	
	Flooring.		
	Market Survey on different types	of flooring materials.	
UNIT 3	Different Types of Painting Techr	iques and methods Glass –	18 Hours
	Identification, thickness, types, textures and application. Market		
	survey on Types of Paints, Types		
	Visit to paint and glass show room	15.	

References

- 1. Chakraborti "Civil Engineering Drawing." Bhaktivedanta Book Trust, Kolkata, 2015.
- 2. Gurucharn Singh, "Building Materials." Standard Publishers and Distributers, Delhi, 2014.
- 3. Sanjay Mahajan "Building Construction I and II". Satya Prakashan, New Delhi, 2014.
- 4. Sucheta Singh, Veena Gandotra and Promila Sharma "Organic Building Materials in Residential constructions." Concept Publishing Company, New Delhi, 2009.
- 5. Sushil Kumar, "Building Construction." Standard Publishers and Distributers, Delhi, 2008.

II Semester ID 2.3 P: CAD IN INTERIORS (Practical)

No. of practical Credits - 3		Number of practical hours -	84
Course outcom	nes: On successful completion of	of the course, the students will be able to	0
• Able to use CAD 2D software in digital drafting.			
	v draft various interior details and	-	
8,		- Fire and	
UNIT-1	Introduction to CAD, importan	ce and application of CAD in interiors.	6 Hours
	Fundamentals of computers, fil	e menu-saving closing files, importing	
	and exporting files, saving fi	les in different formats. Printing and	
	publishing, undo/redo, matchin	g properties & its application.	
UNIT- 2	Introduction to object drawing	ng, different types of lines - pline,	12 Hours
	construction lines, splines, m	ultiline, types of objects, circles and	
	curves arc, polygon, ellipse,	donut and its application and use in	
	interiors		
UNIT- 3	Introduction to drawing settin	g and types of setting drawing limits	12 Hours
	units, object selection, drafting	, setting, polar tracking, grid and snap,	
	its application advantages and u	ises.	
UNIT- 4	Introduction to object editing	, types in editing the drawing with	18 Hours
	different command trim, exten	d, stretch, erase delete, introduction to	
	viewing, types of viewing -	zoom, pan, holstering utility and its	
	advantages and important, hatcl	n boundary, hatch, editing, introduction	
	to layers, types of layer creation	n and uses in interiors	
UNIT- 5	Introduction to hatch, dimens	sions, text, layer, point style creation,	18 Hours
	dimension, text, multiline, pline	e, editing, creating and inserting blocks,	
	attributions, along with different types, application and Importance.		
UNIT-6	UNIT-6 Introduction to creation of solid, wireframe, objects, basic rendering		18 Hours
	skills, use of viewport command, different options of view command.		
	Working on model space, pape	er space, setting the scale for drawings,	
	different types, its application a	nd importance	

References

1. Gopalakrishna, K. R., Sudhir, "A Text Book of Computer Aided Engineering Drawing", Subhas Stores, Bangalore, 2013.

- 2. Jin Feng, "Basic AutoCAD for Interior Designers", Peachpit Press, 1999.
- 3. Joseph A. Fiorello, "CAD for Interiors: Beyond the Basics", John Wiley & Sons, 2010.
- 4. Sham Tickoo, "Autocad2013 for Engineers and Designers", Dreamtech Press, 2012.
- 5. Strock, Cheryl R., "Advance AutoCAD", BPB Publications, 2010.

OPEN ELECTIVES I Semester ID OE 1 – BASICS OF INTERIOR DESIGN

Number of	Number of lecture	Number of practical	Number of practical h	ours
Theory Credits		credits	/semester	
3	42	NA	NA	
GaiAcc	nes: On successful complet n knowledge of structural a quire deeper understanding on ntify and implement Access	nd decorative designs. of elements of design.		
UNIT-1 Found	ation of design		12	2 Hours
Chapter-1: Des	sign Fundamentals. Definition	on and classification of de	esign Structural and deco	orative.
Chapter-2: Stru	actural design – importance	and requirements of good	l structural design Decorat	ive
design – import	ance and requirements of go	ood decorative design Cla	ssification of decorative de	esign:
Naturalistic, sty	lized, geometric and abstrac	et.		
Chapter-3: Fol	k and Tribal designs. Develo	opment of designs using m	otives for various purposes	•
UNIT-2 Elements and Principles of Design 15 Hours				
Chapter-4: Me	aning and importance, chara	acteristics of each elemen	t and their use in designing	g. Line –
Types, Line and	direction -vertical, horizon	tal, diagonal, curved, zigz	ag, Characteristics and use	es.
Shape - types-so	quare, triangle, circle and po	olygons Forms - three dim	ensional Texture - visual t	exture
and tactile textu	res. Space, Proportions, Pat	tern.		
Chapter-5: Co	lor theories, color wheel, c	color schemes, color psyc	chology; Effects of colors	,
Color mixing, in	ntensity, Color dynamics; C	olor planning in design ap	oplication.	
Chapter-6: Prin	nciples of design - Meaning,	nature, types and signific	ance in designing. Balance	:
meaning and definition, classification. Rhythm: meaning and definition, types. Emphasis-				
meaning and definition, types and methods of achieving.				
Proportion: meaning and definition, Greek/Golden oblong in space division.				
Harmony: meaning and definition, methods of achieving.				
UNIT-3 A	ccessories in Interiors		15	5 Hours
Chapter-7: Aco	essories: Definition and im	portance Classification –	functional, decorative and	both.

Chapter-8: Selection and placement of accessories Pictures, Art and Craft objects, Sculpture, Antiques, indoor plants and flowers as accessories.

Chapter-9: Developing designs suitable for accessories and preparation of an accessory

References

- 1. "The New Smart Approach to Home Decorating.", Creative Home Owner, New Jersey.
- 2. Prathap Rao, "Interior Design Principles and Practice." Standard Publishers and Distributers, Delhi, 2016.
- 3. Premavathy Seetharaman and Parveen Pannu, "Interior Design and Decoration." CBS Publishers and Distributers Private Limited, New Delhi, 2005.
- 4. Richard Box, "Basic Drawing Techniques." Search Press Limited, Kent, 2004.
- 5. Sally Walton, "Colour Your Home." Parragon Book, UK.2002.

I Semester ID OE 1 – COLOUR CONCEPTS IN INTERIORS

Number of	Number of lecture	Number of practical	Number of practica	al hours
Theory Credits	hours /semester	credits	/semester	
3 42 NA NA				
 Course Outcomes: On successful completion of the course, the students will be able to Apply colour in relation to light in interiors. Understand psychological usage of colours. 				
UNIT-1 Introduc	tion			15 Hours
Chapter-1: Introd	uction to Colour, Relation	ship of colour and light,	Decision	
in colour selection				
Chapter-2: Histor	ry of colours – Aristotle, L	eonardo Da Vinci, Adol	f Hazel, Albert	
Munsell, Ewald He	erring.			
Chapter-3: Prima	ry, secondary, tertiary colo	ours, dimensions of colo	ur, colour schemes –	
harmonious and non-harmonious.				
UNIT-2 Colour P	sychology			15 Hours
Chapter-4: Warm and cool colours, Advancing and receding colours, Heaviness and				
lightness of colour	, effect of colours.			
Chapter-5: Colou	r mixing and appearance –	dye and pigmentation,	pigment Primaries,	
RYB, CMY, CMY	K, Additive colours, color	ur mixing.		
Chapter-6: Colou	r perception in nature-effe	ct of light on colour per	ception, Biological	
colour and technic	al interpretation of light, c	olour temperature.		
UNIT-3 Colour A	pplication			12 Hours
Chapter-7: Colour application to design principles and elements.				
Chapter-8: Interior and exterior application of colour. Adjusting scale and volume of				
space using colour.				
Chapter-9: Colour aid system, and colour systems in practice, simplified colour system,				
colour terminology, special colour issues, mixed colour effects, effects of texture, using				
colour systems				

References:

- 1. Faulkner, R. and Faulkner's. (1987), Inside Today 's Home, Rine hart publishing company, New York.
- 2. Judy. (1994), How to see, how to paint it, Harpencolling publishers, London.
- Pratap R.M (1988) Interior Design Principles and practice, Standard publishers' distribution, Delhi.
- 4. Seetharam, P and Pannu, P. Interior Design and Decoration, CBS publishers and distributors, New Delhi.
- 5. Stewart and Sally. W, (1997), The Complete Home Decorator, Annes publishers Ltd., New York

II Semester ID OE 2 – HOME DECOR

Number	f	Number of lookung	Number of an of a local	N	4:11
Theory Ci		Number of lecture hours /semester	Number of practical credits	Number of practical hours /semester	
3	cuits	42	NA	NA	
Course Ou	itcomes	: On successful complet	ion of the course, the stu	dents will be able t	t0
 Use decoration in relation to furnishings, fabrics, lighting, and accessories. Understand the estimation of curtains, drapery, bed linen, table linen, cushion and upholstered furniture. 					
UNIT-1	Home	Furnishing			15 Hours
Chapter-1	: Introd	uction - meaning of fur	mishings, Classification	and selection of so	oft furnishings,
Advantages	s of soft	furnishings and applicati	on of soft furnishings. Fa	ctors to be consider	ed for choosing
the right fal	bric.		_		_
U U		s used for home furnishin	g -Natural fabric and Mar	made / Artificial / S	vnthetic fabric.
-		application in Home Fur	0		<i>j</i> ,
			C	1. 4:	1 . 1:
-		C 1	stery, cushions, chair bac		1
Materials u	sed, car	e and maintenance Bed f	furnishings – Bed linen, b	ed hangings, bed co	over and quilts,
bed skirt, d	lust ruf	fles, pillows – sleeping,	throw and bolsters and i	ts cover. Materials	used, care and
maintenanc	e. Kitch	nen furnishings - dishclot	hs, kitchen towels, tea tow	vels, aprons, oven n	nitts. Materials
used, care and maintenance. Table linen - table cloth, silence cloth, table runner, placemat, top cloth,					
napkins, table skirting. Materials used, care and maintenance. Factors affecting selection of table linen.					
Bathroom furnishings - shower curtains, bath robes, bath mats, bath rugs, antiskid rugs, towels. Materials					
used, care and maintenance. Outdoor furnishings – Door mats, outdoor cushions and upholstery.					
UNIT-2	UNIT-2 Window Treatment 15 Hours				

Chapter-4: Window treatment - Purpose of Window Treatment and factors to be considered while selecting window treatment. Soft furnishes - curtains and draperies, types and styles of hanging curtains. Factors affecting the selection of fabric for curtains. Advantages and disadvantages of curtains and draperies.

Chapter-5: Curtain headings - pelmets and cornices, valances, swags, jabots, window scarf.

Curtain accessories – rods, pipes, drapery cranes, finials, curtain rings and tie backs.

Hard furnishes – awning, canopy, exterior shutters, shades and blinds – types of blinds, advantages and disadvantages of blinds.

Chapter-6: Estimation of furnishing Basic requirement of furnishing material cost of furnishing material, estimating the cost for each requirement - curtain, drapery, bed linen, table linen, cushion and upholstered furniture.

UNIT-3	Lighting and Accessories:	12 Hours

Chapter-7: Introduction to lighting, Types of lighting – Natural and artificial. Electric lamps –

incandescent, fluorescent, sodium vapor, mercury, halogen and neon. Guidelines for good lighting.

Chapter-8: Different types of lights in interior and exterior - Ambient (general lighting), Task lighting, Accent lighting, Informational lighting/Guidance Lighting and Decorative lighting.

Chapter-9: Meaning, importance of accessories, types of accessories - functional, decorative, both functional and decorative. Displays techniques of accessories and its application in interiors.

Steps in selecting accessories. Materials used, care and maintenance

References:

- Alison Worm Leighton (1997), "The Encyclopaedia of Home Furnishing Techniques." Headline Book Publishing Limited, Great Britain.
- Caroline Clifton-Mogg (1997), "The Curtain Design Source Book." Ryland Peters and Small, Great Britain.
- Janis Bullis (1996), "Quick and Easy Soft Furnishings." Reader's Digest Association Limited, London.
- 4. Judy Britain (1986), "Home Furnishings." Little Brown and Company, Boston.
- Mike Lawrence (2001), "The Complete Decorating and Home Improvement Book." Hermes House, London.

II Semester ID OE 2 – LANDSCAPE

Number of	Number of lecture	Number of practical	Number of practic	al hours
Theory Credits	hours /semester	credits	/semester	
3	42	NA	NA	
 Course Outcomes: On successful completion of the course, the students will be able to Understand history and different styles in interior landscaping. Prepare a design outcome using the knowledge of landscape services, products, and irrigation system. 				
UNIT-1 Introduct	tion & Principles of Land	dscape		15 Hours
Chapter-1: Introd	uction to ecology - Interde	pendence of various sy	stems in the biosphere.	Study of
ecosystems in urba	n & rural habitats.			
Chapter-2: Introd	uction to geology and soi	ls. Introduction to hyd	rology, hydro cycle, su	rface water,
Groundwater mana	agement, sources of ground	d water pollution and it	s control	
Chapter-3: Basic	principles of landscape de	sign: factors to be consi	idered, components inv	volved in
garden design. Roo	of gardens, interior landsca	aping and services.		
UNIT-2 Historical Landscape Gardens 15 Hours				
Chapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in				
India: Mughal and	Rajput Landscapes			
Chapter-5: Western Civilization: Europe; Italy, France, and England				
Chapter-6: The Middle-East: The Persian tradition and its far reaching influence Eastern				
Civilization - China and Japan				
UNIT-3 Landscape Elements &: Preparation for Designing and Details				12 Hours
Chapter-7: Plant Material-Characteristics and Differentiation between trees, shrubs, ground cover and				
creepers. Landscape products. Introduction to street furniture and lighting.				
Chapter-8: Modification of site topography, grading, methods of estimating earth volumes Layout of				
plumbing, drainage & other utilities Materials & construction of paving & pedestrian paths				
Chapter-9: Creation & maintenance of water bodies Landscape irrigation systems				

References

- Amarjeet Singh Batth (2014), "Indian Garden Flowers." Prakash Books India Private Limited, New Delhi.
- 2. Laura Coit (2001), "Natural Gardens." Creative Publishing International, Minnesota.
- 3. Ponds, Fountains and Waterfalls, Creative Home Owners, New Jersey.
- Prathap Rao (2011), "Landscape Design Theory and Practice." Standard Publishers and Distributers, Delhi.
- 5. Rich Binsacca (2000), "Container Gardening." Creative Publishing International, Minnesota.

QUESTION PAPER PATTERN (Theory)

I/IISem. B.Sc. Examination (2021-22 Onwards) INTERIOR DESIGN AND DECORATION Paper code and Title of the paper

MAX MARKS-60

18.

22. 23. **TIME: 3Hrs**

Instructions to the Candidates: i. *All sections are compulsory* ii. *Illustrate wherever necessary*

SECTION – A

1.	Answer any 10 of the following	(10x2=20)
	1.	
	2.	
	3.	
	4.	
	5.	
	6.	
	7.	
	8.	
	9.	
	10.	
	11.	
	12.	
	SECTION	D
	SECTION	– B
II.	. Answer any 5 of the following	(5x4=20)
	13.	
	14.	
	15.	
	16.	
	17	

SECTION – C

III. Answer any 4 of the following	(4x5=20)
19	
20.	
21.	

QUESTION PAPER PATTERN (Practical)

I/IISem. B.Sc. Examination (2021-22 Onwards) INTERIOR DESIGN AND DECORATION <u>Paper code and Title of the paper</u>

MAX MARKS-25

TIME: 4Hrs

Instructions to the Candidates: i. All sections are compulsory

1.		10 Marks
2.		10 Marks
3.	Viva Voce	05 Marks

QUESTION PAPER PATTERN (Practical)

I/IISem. B.Sc. Examination (2021-22 Onwards) INTERIOR DESIGN AND DECORATION

Paper code and Title of the paper

MAX MARKS-50

TIME: 4Hrs

Instructions to the Candidates: i. All sections are compulsory

1.		20 Marks
2.		20 Marks
3. V	viva Voce	10 Marks

Outline for Continuous Assessment

Theory with 3 credits

Activity	C1	C2	Total
Session Test	15%	15%	30%
Seminars/Presentations/Activity	5%	-	05%
Assignment/Field Work	-	5%	05%
Total	20%	20%	40%

Practicals with 2/3 Credits

Activity	C1	C2	Total
Test / Performance	20%	20%	40%
Record Maintenance		10%	10%
		Total	50%