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CHOICE BASED CREDIT SYSTEM

(Semester Scheme with Multiple Entry and Exit Options for Under Graduate Course)

SYLLABUS AS PER NEP GUIDELINES

SUBJECT: INTERIOR DESIGN & DECORATION

2021-22 onwards



BENGALURU NORTH UNIVERSITY

Scheme and Syllabus

B.Sc. (Interior Design & Decoration)

(I & II Semesters)

Academic year 2021-2022 onwards

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 coordinated 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.
- 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.

	B.Sc. (INTERIOR DESIGN AND DECORATION)							
	SEMESTER – I							
		Theory/	Instructi	Duration	Marks			CREDIT
CODE	Course	Practical	on Hrs/wk	of Exam (Hrs)	IA	Exam	Total	
	Language I	Theory	4	3	30	70	100	3
	Language II	Theory	4	3	30	70	100	3
ID1.1 T	Fundamentals of	Theory	3	3	30	70	100	3
ID1.1 P	Interior Design	Practical	4	4	15	35	50	2
ID1.2 T	Construction Materials	Theory	3	3	30	70	100	3
ID1.2 P	- I	Practical	4	4	15	35	50	2
ID1.3 P	2D &3D Graphics	Practical	6	4	30	70	100	3
ID-OE-1	Open Elective	Theory	3	3	30	70	100	3
	SEC	Theory+ Practical	1+2	2	15	35	50	2
	PE-Yoga	Practical	2	-	25	-	25	1
	H&W	Practical	2	-	25	-	25	1
					275	525	800	26

Scheme of Examination

	SEMESTER – II							
		Theory/	Instruct	Duration		Marks	CREDIT	
CODE	Course	Practical	ion	of Exam	IA	Exam	Total	
			Hrs/wk	(Hrs)				
	Language I	Theory	4	3	30	70	100	2
	Language II	Theory	4	3	30	70	100	2
ID2.1 T	Anthropometry &	Theory	3	3	30	70	100	3
ID2.1 P	Ergonomics	Practical	4	4	15	35	50	2
ID2.2 T	Construction Materials -	Theory	3	3	30	70	100	3
ID2.2 P	II	Practical	4	4	15	35	50	2
ID2.3 P	CAD in Interiors - I	Practical	6	4	30	70	100	3
ID-OE-2	Open Elective	Theory	3	3	30	70	100	3
	SEC	Theory	1+2	2	15	35	50	2
		+Practical						
	PE-Sports	Practical	2	-	25	-	25	1
	NCC/NSS/R&R/CA	Practical	2	-	25	-	25	1
					275	525	800	26

Exit option with Certificate in Interior Design & Decoration with minimum 52 credits

Open Electives Offered I Semester - OE 1A. Basics of Interior Design (or) 1B. Colour Concepts in Interiors

> II Semester – OE 2A. Home Décor (or) OE 2B. Landscape

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

Number of Theory	Number of lecture	Number of practical	Number of pra		
Credits	hours /semester	credits	/seme		
3 Course outcomes: O	34225Course outcomes: On successful completion of the course, the students will be				
Identify differJustify design	ent structural and deco concepts and apply ap	prative designs.			
• Propose desig behavior.	n solutions based on	Form, function, space	planning, user p	erception and	
UNIT 1: Foundation	of Design			10 Hours	
Chapter-1: Introduction	on to interior design a	nd decoration- importar	nce scope&,		
Aspects of interior des	ign, difference betwee	n Interior design and de	ecoration, role		
of the designer and dec	corator				
Chapter-2: Definition	n and classification o	f design - Structural a	and decorative,		
Classification of decor	ative design: Naturalis	stic, stylized, geometric	and abstract.		
Chapter3: Importanc	e and requirements of	of good design, Evalu	ation of good		
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	of Design – Balance	e, Proportion, Rhythm,	Emphasis and		
Harmony - Meaning, t					
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.

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.	

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)

Ν	No. of practical Credits - 2	Number of practical hours	s - 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 -Sketching, 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 of	utcomes: On successful completion of	f the course, the students will b	e able to				
• Ap	• Apply the fundamental techniques of architectural representation with a thorough						
kno	owledge of interior presentation techni	ques.					
• Enl	hance the skills 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 geomet geometrical constructions. Construc and regular polygons. Developmer geometrical shapes and their applicat	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.	perbola, ovals and construction	16 Hours				
UNIT-4	Orthogonal projections, drafting of	plans and elevations of various					
	types of objects, Development of Sur	faces of Objects. Constructions	16 Hours				
	of Geometrical Shapes,						
	1. First angle projection, glass b	ox 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 – ANTHROPOMETRY AND ERGONOMICS (Theory)

Number of Theory	Number of lecture	Number of practical		of practical	
Credits 3	hours /semester 42	credits 2		semester 56	
Course outcomes: On successful completion of the course, the students will					
		lay life and in various i			
_		nd dynamic activities fo	or design dev	velopment.	
• Understand the	e importance of space	planning.			
UNIT 1: Introduction	to Ergonomics.			12 hours	
Chapter-1: Meaning	of Ergonomics, Co	oncept, objectives, A	pplications,		
Ergonomic Factors Ap	plicable to design.				
Chapter-2: Anthropo	ometry- Introduction	to Anthropometry,	Types of		
Anthropometric Data-	Static and Dynamic A	Anthropometric data n	ecessary to		
design. Anthropometri	c considerations in des	sign development.			
Chapter-3: Ergonomi	cs for seated and stand	ing work.			
UNIT 2: Application	of Ergonomics in Res	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 room	ns.		
Chapter-5: Ergonomi	cs in wash rooms: Va	rious fixtures used in v	washrooms.		
Dimensions of various	fixtures. Space requir	rements in Toilets, pow	vder rooms,		
bathrooms.					
Chapter-6: Ergonom	ics in Kitchens: Erg	onomic triangle. Diff	erent work		
centers in Kitchens. Ty	pes of kitchen.				
UNIT 3 Ergonomics				15 hours	
Chapter-7: Space requ	uirements 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	Number of lecture	Number of practical	Number of	-	
Theory Credits	hours /semester	credits	hours /semester		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
Explain the coAnalyze the pDevelop inter	 Course outcomes: On successful completion of the course, the students will be able to Explain the components and materials within the building. Analyze the properties of various building materials. Develop interior spaces with suitable construction materials. 				
UNIT 1: Foundation				16 Hours	
Chapter-1: Foundation	ons, footings, Beams a	and slabs- Introduction	n, types and		
application Different T	Types of foundations an	nd its use based on the se	oil. Different		
types of footings beam	ı slabs,				
Chapter-2: Walls & V	Vall Finishes: types of	walls, load bearing wa	lls and non-		
load bearing walls. Di	fferent partitions – woo	od, gypsum, glass, meta	al and		
combination. Wall finit	shes: Wood paneling,	plaster, gypsum board,	paint, stone		
wall panels, acoustic p	anels, upholstered wal	l systems, wall coverin	gs-		
wallpaper.					
Terminology, Differe Damp Proofing & Te	nt Types of Sills, lintel rmite Proofing - Damp	ntroduction, types and s Chajjas based on mate oness – Concept, causes n. Materials used for dat	erial and use. s and effects.		
UNIT 2: Flooring				13 Hours	
Chapter-4: Flooring-	Introduction, Differen	t 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	tion Visit to any flooring	18 Hours
	showroom, study report and rate a	nalysis of different types of	
	Flooring.		
	Market Survey on different types		
UNIT 3	Different Types of Painting Techr	iques and methods Glass –	18 Hours
	Identification, thickness, types, tex	xtures and application. Market	
	survey on Types of Paints, Types		
	Visit to paint and glass show roon	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.

I Semester ID OE 1 – BASICS OF INTERIOR DESIGN

Number o		Number of lecture	Number of practical	Number of practica	al hours	
Theory Cree	dits	hours /semester	credits	/semester		
3 42 NA NA						
• (Course Outcomes: On successful completion of the course, the students will be able to Gain knowledge of structural and decorative designs. Acquire deeper understanding of elements of design. Identify and implement Accessories in Interior designing. 					
UNIT-1 Fou	ndati	on of design			12 Hours	
Chapter-1: I	Design	Fundamentals. Definition	n and classification of c	lesign Structural and c	lecorative.	
Chapter-2: S	Structi	ural design – importance a	nd requirements of goo	d structural design Deco	orative	
design – imp	ortanc	e and requirements of goo	d decorative design Cl	assification of decorative	e design:	
Naturalistic,	stylize	ed, geometric and abstract.				
Chapter-3: H	Folka	nd Tribal designs. Develop	ment of designs using n	notives for various purpo	oses.	
UNIT-2 Eler	UNIT-2 Elements and Principles of Design 15 Hours					
Chapter-4: N	Meani	ng and importance, charac	eteristics of each element	nt and their use in design	ning. Line –	
Types, Line a	and di	rection -vertical, horizonta	al, diagonal, curved, zig	zag, Characteristics and	uses.	
Shape - types	s-squa	re, triangle, circle and poly	ygons Forms - three dir	nensional Texture - visu	al texture	
and tactile ter	xtures	. Space, Proportions, Patte	ern.			
Chapter-5:	Color	theories, color wheel, co	lor schemes, color psy	chology; Effects of co	lors,	
Color mixing	g, inter	nsity, Color dynamics; Co	lor planning in design a	pplication.		
Chapter-6: I	Princip	oles of design - Meaning, r	ature, types and signifi	cance in designing. Bala	nce:	
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	Acce	essories in Interiors			15 Hours	
Chapter-7: A	Access	sories: Definition and imp	ortance Classification -	functional, decorative a	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, colours	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 of Number of lecture Number of practical Number of practical hours					
Theory C	redits	hours /semester	credits	/semester	
3		42	NA	NA	
 Course Outcomes: On successful completion of the course, the students will be able to 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,
Advantage	s of soft	furnishings and application	on of soft furnishings. Fa	ctors to be consider	ed for choosing
the right fa	bric.				
Chapter-2	: Fabric	s used for home furnishin	g -Natural fabric and Mar	made / Artificial / S	ynthetic fabric,
its role and	area of	application in Home Fur	nishing.		
Chapter-3	: Furnit	ure furnishings – Uphols	stery, cushions, chair bac	k, tie on seat cover	and slipcover.
Materials u	ised, cai	re and maintenance Bed	furnishings – Bed linen, b	ed hangings, bed co	over and quilts,
bed skirt, o	lust ruf	fles, pillows – sleeping,	throw and bolsters and i	ts cover. Materials	used, care and
maintenanc	e. Kitel	nen furnishings - dishclot	hs, kitchen towels, tea tow	wels, 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.
- 5. Mike Lawrence (2001), "The Complete Decorating and Home Improvement Book." Hermes House, London.

II Semester ID OE 2 – LANDSCAPE

irrigation system.15 HoursUNIT-1 Introduction & Principles of Landscape15 HoursChapter-1: Introduction to ecology - Interdependence of various systems in the biosphere. Study of ecosystems in urban & rural habitats.Study of ecosystems in urban & rural habitats.Chapter-2: Introduction to geology and soils. Introduction to hydrology, hydro cycle, surface water, Groundwater management, sources of ground water pollution and its control Chapter-3: Basic principles of landscape design: factors to be considered, components involved in garden design. Roof gardens, interior landscaping and services.15 HoursUNIT-2 Historical Landscape Gardens15 Hours	Theory Credits	Number of lecture	Number of practical	Number of practic	al hours	
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 Introduction & Principles of Landscape 15 Hours Chapter-1: Introduction to ecology - Interdependence of various systems in the biosphere. Study of ecosystems in urban & rural habitats. 15 Hours Chapter-2: Introduction to geology and soils. Introduction to hydrology, hydro cycle, surface water, Groundwater management, sources of ground water pollution and its control 16 Hours Chapter-3: Basic principles of landscape design: factors to be considered, components involved in garden design. Roof gardens, interior landscaping and services. 15 Hours 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 15 Hours		Theory Credits hours /semester credits /semester				
 Understand history and different styles in interior landscaping. Prepare a design outcome using the knowledge of landscape services, products, and irrigation system. UNIT-1 Introduction & Principles of Landscape 15 Hours Chapter-1: Introduction to ecology - Interdependence of various systems in the biosphere. Study of ecosystems in urban & rural habitats. Chapter-2: Introduction to geology and soils. Introduction to hydrology, hydro cycle, surface water, Groundwater management, sources of ground water pollution and its control Chapter-3: Basic principles of landscape design: factors to be considered, components involved in garden design. Roof gardens, interior landscaping and services. UNIT-2 Historical Landscape Gardens Iburs Chapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in India: Mughal and Rajput Landscapes 						
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Groundwater management, sources of ground water pollution and its control Chapter-3: Basic principles of landscape design: factors to be considered, components involved in garden design. Roof gardens, interior landscaping and services. UNIT-2 Historical Landscape Gardens Chapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in India: Mughal and Rajput Landscapes	ecosystems in urba	n & rural habitats.				
Chapter-3: Basic principles of landscape design: factors to be considered, components involved in garden design. Roof gardens, interior landscaping and services. UNIT-2 Historical Landscape Gardens Chapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in India: Mughal and Rajput Landscapes	Chapter-2: Introduction to geology and soils. Introduction to hydrology, hydro cycle, surface water,					
garden design. Roof gardens, interior landscaping and services.UNIT-2 Historical Landscape Gardens15 HoursChapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in India: Mughal and Rajput Landscapes	Groundwater management, sources of ground water pollution and its control					
UNIT-2 Historical Landscape Gardens15 HoursChapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in India: Mughal and Rajput Landscapes	Chapter-3: Basic principles of landscape design: factors to be considered, components involved in					
Chapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in India: Mughal and Rajput Landscapes	garden design. Roof gardens, interior landscaping and services.					
India: Mughal and Rajput Landscapes	UNIT-2 Historical Landscape Gardens 15 Hours					
	Chapter-4: Ancient Heritage: Mesopotamia, Egypt, Greece, Rome Ancient and medieval period in					
Chapter-5: Western Civilization: Europe; Italy, France, and England	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-3Landscape Elements &: Preparation for Designing and Details12 Hours	UNIT-3 Land	dscape Elements &: Prep	paration 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 7. 1 lant					
Chapter-8: Modification of site topography, grading, methods of estimating earth volumes Layout of	_	e products. Introduction a	s sheet fulfillate and ng			
plumbing, drainage & other utilities Materials & construction of paving & pedestrian paths	creepers. Landscap		C	e	es Layout of	
Chapter-9: Creation & maintenance of water bodies Landscape irrigation systems	creepers. Landscap Chapter-8: Modif	ication of site topography	, grading, methods of e	estimating earth volume	es Layout of	

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-70

TIME: 3Hrs

(5x4=20)

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 – B	

	(0
13.	
14.	
15.	
16.	

17

II. Answer any 5 of the following

18.

SECTION – C

III. Answer any 5 of the following	(5x6=	30)
19		

- 20.
- 21.
- 22.
- 23.
- 24.

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-35

TIME: 4Hrs

Instructions to the Candidates: i. All sections are compulsory

1.	10 Marks
2.	10 Marks
3. Viva Voce	05 Marks
4. Practical Record	10 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-70

TIME: 4Hrs

Instructions to the Candidates: i. All sections are compulsory

1.	20 Marks
2.	20 Marks
3. Viva Voce	10 Marks
4. Practical Record	20 Marks

Outline for Continuous Assessment

Theory with 3 credits

Activity	C1	C2	Total
Session Test	10%	10%	20%
Seminars/Presentations/Activity	5%	-	05%
Assignment/Field Work	-	5%	05%
Total	15%	15%	30%

Practicals with 2 Credits

Activity	C1	C2	Total
Test / Performance	5%	5%	10%
Record Maintenance		5%	05%
Total			15%

Practicals with 3 Credits

Activity	C1	C2	Total
Test / Performance	10%	10%	20%
Record Maintenance		10%	10%
Total 30%			30%