# KURUKSHETRA UNIVERSITY KURUKSHETRA



# Scheme of Examinations and Syllabus

# for

## **Under-Graduate Programme**

## **Bachelor of Interior Design**

## **Interdisciplinary Scheme - D**

# Under Multiple Entry-Exit, Internship and CBCS-LOCF in Accordance to NEP-2020

w.e.f. 2023-24 (In Phased Manner)

Department of Home Science

#### KURUKSHETRA UNIVERSITY, KURUKSHETRA Scheme of Examinations and Syllabus for Under-Graduate Programme Under Multiple Entry-Exit, Internship and CBCS-LOCF in Accordance to NEP-2020 W.E.F. 2023-24 (In Phased Manner)

				STER 1	8			
Course	Paper(s)	Nomenclature of Paper	Credits	Hours/ week	Internal Marks	Extern al Marks	Total Marks	Exam Duration
CC-A1 @ 4 Credit	B23-IDS-101	Interior Design (Principles)-1	3	3	20	50	100	3 Hours
		Interior Design (Principles)-1 –Lab	1	2	10	20		4 Hours
CC-B1 @ 4 Credit	B23-IDS-102	Materials and construction Details-1	3	3	20	50	100	3 Hours
		Materials and construction Details-1-Lab	1	2	10	20		4 Hours
CC-C1 @ 4 Credit	B23-IDS-103	Drawing Techniques & Graphics	3	3	20	50	100	3 Hours
		Drawing Techniques &Graphics- Lab	1	2	10	20		4 Hours
CC-M1 @2 Credit	B23-IDS-104	Art & Drawing	1	1	10	20	50	3 Hours
		Art & Drawing – Practical	1	2	5	15		4 Hours
MDC-1 @ 3 Credit			From	n the Cours	ses offered	by D/C/I		
AEC-1 @ 2 Credit		From	ı available	AEC-1 poo	ol list of two	credits as	s per NEF	)
SEC-1 @ 3 Credit		From	From available SEC-1 pool list of three credits as per NEP					
VAC-1 @ 2 Credit		From	ı available	VAC-1 poo	ol list of two	credits as	s per NEI	>

**Bachelor of Interior Design** 

		S	EMES	TER 2				
Course	Paper(s)	Nomenclature of paper	Credits	Hours/ week	Internal Marks	External Marks	Total Marks	Exam Duration
CC-A2 @ 4 Credit	B23-IDS-201	Interior Design-II	3	3	20	50	100	3 Hours
		Interior Design-II – Lab	1	2	10	20		4 Hours
CC-B2 @ 4 Credit	B23-IDS-202	Materials and construction Details –II	3	3	20	50	100	3 Hours
		Materials and construction Details -II – Lab	1	2	10	20		4 Hours
CC-C2 @ 4 Credit	B23-IDS-203	Furniture Design Workshop	3	3	20	50	100	3 Hours
		Furniture Design Workshop -Lab	1	2	10	20		4 Hours
CC-M2 @ 2 Credit	B23-IDS-204	Advanced Graphics	1	1	10	20	50	3 Hours
		Advanced Graphics Practical	1	2	5	15		4 Hours
MDC-2 @ 3Credit			From	the Cour	rses offere	ed by D/C/I		
AEC- 2 @ 2 Credit		From	available .	AEC-2 po	ol list of tv	vo credits as	per NEP	
SEC- 2 @ 3 Credit		From	From available SEC-2 pool list of three credits as per NEP					
VAC-2 @ 2 Credit		From	available	VAC-2 po	ool list of t	wo credits as	per NEP	

#### Internship of 4 credits of 4-6 weeks' duration after 2 semester

		S	EMES'	TER 3	6			
Course	Paper(s)	Nomenclature of paper	Credits	Hours/ week	Internal Marks	External Marks	Total Marks	Exam Duration
CC-A3 @ 4 Credit	B23-IDS-301	Interior Design— III	3	3	20	50	100	3 Hours
		Interior Design— III Lab	1	2	10	20	-	4 Hours
CC-B3 @ 4 Credit	B23-IDS-302	Materials and construction Details –III	3	3	20	50	100	3 Hours
		Materials and construction Details –III-Lab	1	2	10	20		4 Hours
CC-C3 @ 4 Credit	B23-IDS-303	Building Services- I (Water Supply & Sanitation)	3	3	20	50	100	3 Hours
		Building Services - I (Water Supply & Sanitation) Lab	1	2	10	20		4 Hours
CC-M3 @4 Credit	B23-IDS-304	Sculpture Making	3	3	20	50	100	3 Hours
		Sculpture Making Practical	1	2	10	20		4 Hours
MDC-3 @ 3 Credits			From	the Cou	rses offere	ed by D/C/I		
AEC-3 @ 2 Credit		Fron	n available	AEC-3 p	ool list of t	wo credits as	per NEP	
SEC-3 @ 3 Credit		From	available	SEC-3 po	ol list of th	ree credits as	s per NEP	

			SEMF	STER 4				
Course	Paper(s)	Nomenclature of paper	Credits	Hours/week	Internal Marks	External Marks	Total Marks	Exam Duration
CC-A4 @4 Credit	B23-IDS-401	Interior Design- IV	3	3	20	50	100	3 Hours
		Interior Design- IV Lab	1	2	10	20		4 Hours
CC-B4 @ 4 Credit	B23-IDS-402	Materials and construction Details –IV	3	3	20	50	100	3 Hours
		Materials and construction Details –IV Lab	1	2	10	20		4 Hours
CC-C4 @ 4 Credit	B23-IDS-403	Building Services- II (Electrical Systems & Lighting)	3	3	20	50	100	3 Hours
		Building Services- II (Electrical Systems & Lighting) – Lab	1	2	10	20		4 Hours
CC-M4 (V) @4 Credit		Fro	m availabl	e CC-M4 (V)	pool list of	f four credits	as per NEP	
AEC-4 @ 2 Credit		F	From available AEC-4 pool list of two credits as per NEP					
VAC-3 @ 2 Credit		F		able VAC-3 po	ool list of t	wo credits as	s per NEP	

Internship of 4 credits of 4-6 weeks' duration after 4th semester (If not done in 2<sup>nd</sup> Semester)

	SEMESTER 5									
Course	Paper(s)	Nomenclature of Paper	Credits	Hours/ week	Internal Marks	External Marks	Total Marks	Exam Duration		
CC-A5 @4 Credit	B23-IDS-501	Interior Design – V	3	3	20	50	100	3 Hours		
		Interior Design – V Lab	1	2	10	20		4 Hours		
CC-B5 @ 4 Credit	B23-IDS-502	Materials and construction Details –V	3	3	20	50	100	3 Hours		
		Materials and construction Details –V Lab	1	2	10	20		4 Hours		
CC-C5 @ 4 Credit	B23-IDS-503	Building services- III (HVAC, Fire Safety & Security Systems)	3	3	20	50	100	3 Hours		
		Building services- III (HVAC, Fire Safety & Security Systems) Lab	1	2	10	20		4 Hours		
CC-M5 (V) @4 Credit	B23-IDS-504	From	available	CC-M5 (V	) pool list of	f four credits	as per NEP			
Skill Enhancem ent Course				Intern	ship # 4 cre	dits				

# Four credits of internship, earned by a student during summer internship after 2nd semester or 4th semester, will be taken into account in 5th semester of the students who pursue 3 year UG Programme without taking exit option.

	SEMESTER 6									
Course	Paper(s)	Nomenclature of paper	Credits	Hours/ week	Internal Marks	External Marks	Total Marks	Exam Duration		
CC-A6 @4 Credit	B23-IDS-601	Interior Design - VI	3	3	20	50	100	3 Hours		
		Interior Design– VI Lab	1	2	10	20		4 Hours		
CC-B6 @ 4 Credit	B23-IDS-602	Interior Project Management	3	3	20	50	100	3 Hours		
		Interior Project Management Lab	1	2	10	20		4 Hours		
CC-C6 @ 4 Credit	B23-IDS-603	Professional Practice	3	3	20	50	100	3 Hours		
		Professional Practice Lab	1	2	10	20		4 Hours		
CC-M6 @4 Credit	B23-IDS-604	Computer Applications	3	3	20	50	100	3 Hours		
		Computer Applications Practical	1	2	10	20		4 Hours		
CC-M7(V) @4 Credit		From available	CC-M7(V	) pool lis	t of four ci	redits as per	NEP			

## **SEMESTER 1**

Session: 2023-24						
Part A - Introduction						
Subject	INTERIOR DESIG	GN-I (PRINCIPLES)				
Semester	Ι					
Name of the Course	Bachelor of Interior Design					
Course Code	B23-IDS-101					
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VAC)	CC-A1					
Level of the course (As per Annexure-I	100-199					
Pre-requisite for the course (if any)	Senior Secondary (1	10+2)				
Course Learning Outcomes(CLO):	The objective of the course is to provide a clear understand about the basic design elements and principles to be follow while designing any space using different standards, materi and technologies. It enables the students to understand visual composition in an interior space with color schem textures, light, shadow etc. Introduction to human dimensio functions, space – activities, space standards, relationships of simple single living unit to understand the minimum spa- requirement by individual to perform various activities.					
Credit	Theory	Practical	Total			
	3	1	4			
Contact Hours	3	2	5			
Max. Marks: 100 Internal Assessment Marks : 20(T) + End Term Exam Marks : 50(TH) + 20		Time : 3hrs(T) 4hrs(P)				

#### **Part B- Contents of the Course**

**Instructions for Paper- Setter:** The examiner will set eight questions in all, selecting two questions from each unit.

t	Topics	Contact Hours
Ι	Principles of visual composition	10
	Symmetry, Asymmetry, Repetition, Rhythm, Background, Foreground, Sense of Direction, Harmony, Balance and Proportion.	
II	Elements of visual composition	11
	Dots, Lines, Planes, Patterns, Shapes, Colors, Textures, Levels, Light, and Fenestration, Exploring color schemes, Textures and Texture schemes.	
III	Anthropometrics Study	11
	Human dimensions anthropometry in various postures (in applied form), their relation to everyday utilities like the table, chair, bed, sink etc . To make measured drawing of a bedroom with anthropometrical reference.	
IV	Design Exercise	10
	Design of Anthropometrics Cell with minimum space requirements of single unit for a single person and study the interior spaces by making 3-D views (axonometric and isometric). This exercise will include areas like living area, sleeping area, washroom, cooking area with furniture layout in 2-D drawings including elevations covering an area of 25-50 sqm. Using various principles of design, textures and color schemes.	
V*	• Practice making 2 dimensional compositions on paper using different mediums and physical models using different materials.	28
	<ul> <li>Application of elements/principles of visual composition.</li> </ul>	
	Suggested Evaluation Methods	1

Internal Assessment:	End Term Examination:
<ul> <li>Theory</li> <li>Class Participation: 05</li> </ul>	50
<ul> <li>Seminar/presentation/assignment/quiz/class test etc.:05</li> </ul>	
• Mid-Term Exam: 10	
> Practicum	
• Class Participation: 00	20
<ul> <li>Seminar/Demonstration/Viva-voce/Lab records etc.:10</li> <li>Mid-Term Exam: NA</li> </ul>	
• Mid-Term Exam. NA	
Part C-Learning Resources	
Recommended Books/e-resources/LMS:	
• Drawing a Creative Process, Francis D.K. Ching	
• Design Drawing + CD, Francis D.K. Ching	
• Architecture Graphics, Francis D.K. Ching 4 <sup>th</sup> Edition	
• Interior design & space planning, Dechiara Pabero Zelnik	C
• Interior design illustrated, Francis D.K. Ching	
• Home Plumbing (The David & Charles Manual of), Erner	st Hall
• House Book (The Complete Guide to Home Design), Ter	
• Illustration + Perspectives (In Pantone Colors), Eiji Mitoo	oka
Architectural Graphic standards editor, Boaz Joseph	
Neufert's Architect's data	
• Time Saver standards for building types, Joseph D.C. and	John Callender.
• Kitchen & Bath, Montse Zapata	
Bed room, Lestey Taylor	
• The Curtain Book, Mitchll Beazlty	
-	
<ul> <li>Interior Design Visual, Maureen Mitton 2<sup>nd</sup> Edition</li> <li>100 Bright Ideas For color, Sue Rose</li> </ul>	

\*Applicable for courses having practical component.

	Session: 2023-24					
	Part A - Introducti	on				
Subject	Subject MATERIALS & CONSTRUCTION DETAILS - I					
Semester	Ι					
Name of the Course	Bachelor of Interi	or Design				
Course Code	B23-IDS-102					
Course Type:	CC-B1					
(CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)						
Level of the course (As per Annexure-I	100-199					
Pre-requisite for the course (if any)	Senior Secondary (	(10+2)				
Course Learning Outcomes(CLO):	understand of all t in designing the va a fair knowledge	this course is to he available materia arious different inter of different furnish erior surfaces of the	lls, which are used ior spaces. It gives hings and finishes			
Credit	Theory	Practical	Total			
	3	1	4			
Contact Hours	3	2	5			
Max. Marks: 100 Internal Assessment Marks : 20 End Term Exam Marks : 50(TH		Time : 3hrs(T) 4hrs(P)				
Part	<b>B-</b> Contents of the	Course				
Instructions for Paper- Setter: The questions from each unit. Instructions for the candidate: The selecting atleast two questions from	e candidate will have	-	-			

Unit	Topics	Contact Hours
Ι	<ul> <li>Timber, cane, bamboo – characteristics of good timber, defects, applications of timber finishes in timber.</li> <li>Wood – Plywood, block boards, particle board, medium density fibre etc. – their properties, process of manufacture, tools and technology of its application and quality assessment, finishes to reconstituted wood, - lamination, polishing etc.</li> </ul>	9
Π	• Masonry – Mud; bricks; building tiles - roof, floor and wall tiles; stones; clay; lime, sand, mortars, cement and aggregate; concrete; gypsum based plaster etc.	11
III	<ul> <li>Paints- Protective coating paints. Types of paints, Composition, functions, preparation and application method, painting on different surfaces, defects in painting etc.</li> <li>Varnishes (Oil and spirit) - Various types and methods of application.</li> </ul>	11
IV	• Insulation Materials – Various insulating materials, their properties and applications. Surface finishes for wood products and derivatives etc. Coatings – clear and pigmented finishes technical or protective coatings etc.	9
V*	<ul> <li>Execute a market survey of different materials in terms of furnishes and finishes (Flooring material/finishes, wall material/finishes, roofing material /finishes).</li> <li>Formulate a case study of an existing house to study its interiors along with furnishes and finishes used in it.</li> </ul>	30
	Suggested Evaluation Methods	<u> </u>

Internal Assessment:	End Term Examination:
<ul> <li>Theory</li> <li>Class Participation: 05</li> <li>Seminar/presentation/assignment/quiz/class test etc.:05</li> <li>Mid-Term Exam: 10</li> </ul>	50
<ul> <li>Practicum</li> <li>Class Participation: 00</li> <li>Seminar/Demonstration/Viva-voce/Lab records etc.:10</li> <li>Mid-Term Exam: NA</li> </ul>	20

#### **Part C-Learning Resources**

**Recommended Books/e-resources/LMS:** 

- **Bindra, S.P. and Arora, S.P** Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
- Chowdary, K.P.- Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi,1990.
- Francis D. Ching- Building Construction Illustrated, Wiley publishers, 2008.
- Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C.- Building Construction: Materials and Types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
- Rangwala, S.C. -Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.

\*Applicable for courses having practical component.

I Bachelor of Interio B23-IDS-103	INIQUES & GRAI	PHICS-I
I Bachelor of Interio B23-IDS-103		PHICS-I
<b>Bachelor of Interio</b> B23-IDS-103	or Design	
B23-IDS-103	or Design	
CC-C1		
100-199		
Senior Secondary (10+2)		
drafting and let	tering techniques	and visualizing
Theory	Practical	Total
3	1	4
3	2	5
T ) + 10(P) = 30	Time : 3hrs(T) 4hrs(P)	
	Senior Secondary ( To familiarize the s drafting and let geometrical forms t Theory 3 3	Senior Secondary (10+2)         To familiarize the students with basic I drafting and lettering techniques geometrical forms through plans section         Theory       Practical         3       1         3       2         Time : 3hrs(T)

#### **Part B- Contents of the Course**

**Instructions for Paper- Setter:** The examiner will set eight questions in all, selecting two questions from each unit.

Unit	Topics	Contact Hours
Ι	• Line, lettering and Dimensioning	10
	• Drafting techniques, principles of good drafting.	
	• Scales & its use in the Architectural drawing.	
	• Representation of material and Architectural Elements through Graphic Symbols	
II	• Projections of point, lines, planes & development of surfaces and Solids in various positions.	10
	• Principles of projection, methods of orthographic	
	projection study of Architectural Plans, Elevation and	
	Section	
III	• <b>Pictorial View:</b> Oblique, Isometric, Axonometric views of solid composition & buildings	10
	• Definitions of perspective (picture plane, stationery point etc.)	
IV	• <b>Perspective:</b> - Normal Eye view & Birds eye view.	10
	• One point & Two point perspective of building forms.(Exterior only)	
	• Perspectives having more than 2 vanishing points.	
V*	• Visualize geometric forms in daily life and present them in	30
	the form of drawings/ sketches/ photographs.	
	• 3D Composition using solid shapes with suitable material of	
	student's choice.	
	Suggested Evaluation Methods	

Internal Assessment:	End Term Examination:
<ul> <li>Theory</li> <li>Class Participation: 05</li> <li>Seminar/presentation/assignment/quiz/class test etc.:05</li> <li>Mid-Term Exam: 10</li> </ul>	50
<ul> <li>Practicum</li> <li>Class Participation: 00</li> <li>Seminar/Demonstration/Viva-voce/Lab records etc.:10</li> <li>Mid-Term Exam: NA</li> </ul>	20
Part C-Learning Resources	
Recommended Books/e-resources/LMS:	
• A Visual Dictionary of Architecture, Francis D.K. Ching	

	Session: 2023-24	l I	
	Part A - Introduct	ion	
Subject	ART & DRAWING		
Semester	I		
Name of the Course	Bachelor of Interior Design		
Course Code	B23-IDS-104		
Course Type:	CC-M1		
(CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)			
Level of the course (As per Annexure-I	100-199		
Pre-requisite for the course (if any)	Senior Secondary (10+2)		
Course Learning Outcomes(CLO):	To familiarize the students with different mediums lik pencil, charcoal, crayons, pastel, water colours, pen and ink, poster colour etc.		
Credit	Theory	Practical	Total
	1	1	2
Contact Hours	1	2	3 Hrs.
Max. Marks: 50 Internal Assessment Marks : 10 End Term Exam Marks : 20(TH		Time : 3hrs(T) 4hrs(P)	
Part	<b>B-</b> Contents of the	Course	
Instructions for Paper- Setter: The	e examiner will set e	eight questions in all.	selecting two

Unit	Topics Co H	
Ι	• Introduction of drawing equipment's, materials and methods of using them.	7
	• Scale & its application for drawing geometric shapes	
	• Lettering different styles	
	• Free-hand sketching: 200 (submit at the final submission)	
II	• Exercise to develop the free hand skills of drawing lines, circles, cubes etc.	6
	• Different strokes in pencil by using different grades, Tonal values, different textures etc.	
III	• Indoor and outdoor sketching, Shading & rendering - Using furniture, human being, vehicles, animals, birds, trees (natural & manmade objects) etc.	8
IV	• Develop the ability to draw and colour with different mediums -Still live, landscape, interior etc. with (natural & manmade objects).	7
V*	• Making compositions on paper using different mediums	28
	Suggested Evaluation Methods	
	l Assessment:	End Term Examination:
• Se	e <b>ory</b> lass Participation: 04 eminar/presentation/assignment/quiz/class test etc.:00 lid-Term Exam: 06	20
	eticum	
• Se	lass Participation: eminar/Demonstration/Viva-voce/Lab records etc.:05	
• M	Iid-Term Exam: NA	15
	Part C-Learning Resources	1

#### **Recommended Books/e-resources/LMS:**

- A History Of Fine Arts in India & the West, Edith Tomory
- Interior Design & space Planning, DechiriaPabero Zelnik
- Interior Design Illustrate, Francis D.K. Ching
- Islamic Architecture in Interior, Satish Grover
- History of art by janson H.W., published by Newyork, 1978.
- A history of fine arts in India and the west orient by Tomory Edith, Published by Longman, 1995
- The Best Interior India, Anuradha Mahindra
- Indian Interior AngelikaTaschen
- Sir Fletcher B. A history of Architecture

## **SEMESTER 2**

	Session: 2023-24		
]	Part A - Introductio	on	
Subject	ct INTERIOR DESIGN-II		
Semester	П		
Name of the Course	Bachelor of Interior Design		
Course Code	B23-IDS-201		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	CC-A2		
Level of the course (As per Annexure-I	100-199		
Pre-requisite for the course (if any)	Senior Secondary (10+2)		
Course Learning Outcomes(CLO):	understanding about of interior design uses, using di- technologies. It en visual design in a textures, light, shace this course enable interiors for a two services, infrastruct	the course is to at the design procedu of spaces with different standards, hables the students an interior space with low etc. The exercise the students to yo storey building ture, furniture layout interior relationship	ures and techniques erent activities and materials and to understand the ith color schemes, the to be executed in design the space with the required t, circulation, open-
Credits	Theory	Practical	Total
	3	1	4
Contact Hours	3	2	5
Max. Marks:100 Internal Assessment Marks:20(1 End Term Exam Marks:50(T)+2	, , ,	Time:3hrs (T) 4hrs(P)	

#### **Part B- Contents of the Course**

**Instructions for Paper- Setter:** The examiner will set eight questions in all, selecting two questions from each unit.

Unit	Topics	Contact Hours
I	• Introduction to design problem with the methodology to proceed with the concept, Case studies and data collection through primary and secondary sources, Formulation of concept with client's requirements.	10
II	• Introduction to various design aspects like: space configuration, interior circulation, the basic structural requirements, finishes, furniture layout, basic services, and aesthetics.	10
III	• Design the interiors of an independent residential unit of minimum area of 150 sqm.	11
IV	<ul> <li>Design the interiors for a office space with a floor area of appx. 300sqm. – 400 sqm.</li> </ul>	9
	• Design should be presented in the form of 2D and 3D drawings (plan, elevations, sections and views) rendered with textures, colors, patterns etc.	
V*	<ul> <li>Detailed study of spaces such as living, dining, bedrooms, kitchen, toilet etc. including the furniture layout, circulation, clearances, lighting and ventilation, etc.</li> <li>Space planning for office interiors – cabinets, conference rooms, open office systems.</li> <li>Integration of spaces and functions in the design of bus shelter/milk booth/ watchman's cabin/ traffic police kiosk/ flower stall/ ATM center, etc.</li> <li>Case study of existing house and analysis of the spaces.</li> </ul>	30
	Suggested Evaluation Methods	

<ul> <li>Internal Assessment:</li> <li>➤ Theory <ul> <li>Class Participation: 05</li> <li>Seminar/presentation/assignment/quiz/class test etc.:05</li> <li>Mid-Term Exam: 10</li> </ul> </li> <li>&gt; Practicum</li> </ul>	End Term Examination: 50
<ul> <li>Class Participation: 00</li> <li>Seminar/Demonstration/Viva-voce/Lab records etc.:10</li> <li>Mid-Term Exam: NA</li> </ul>	20
Part C-Learning Resources	
<ul> <li>Recommended Books/e-resources/LMS:</li> <li>A Visual Dictionary of Architecture, Francis D.K. Ching</li> <li>Creative Interiors (Design of Enclosed Space), Shashi Jain</li> <li>Commercial Interior Perspectives, Graphic – Sha (Editor)</li> <li>Design with Wood , Carol Soucek King</li> <li>Drywall (Pro Tips for Hanging &amp; Finishing), John D. Wagner</li> <li>Graphic Interiors (Space Designed by Graphic Artists), Corina Dean</li> <li>Interior design illustrated , Francis D.K. Ching</li> <li>Home Plumbing (The David &amp; Charles Manual of), Ernest Hall</li> <li>House Book (The Complete Guide to Home Design), Terence Conrar</li> <li>Illustration + Perspectives (In Pantone Colors), EijiMitooka</li> <li>Elements of Architecture, MeissPieree Von</li> <li>Architecture: Form, Space and Order, Francis D.K. Ching</li> <li>A.J. Metric Handbook, Jan Bilwa and Leslie Fair weather</li> <li>Architectural Graphic standards, Boaz Joseph</li> <li>The Curtain Book, MitchllBeazlty</li> <li>Interior Design Visual, Maureen Mitton 2<sup>nd</sup> Edition</li> <li>100 Bright Ideas For color, Sue Rose</li> <li>Window Fashion, Charles T. Randall</li> <li>Illustration + Perspectives (In Pantone Colors), EijiMitooka</li> </ul>	1

\*Applicable for courses having practical component.

		Session: 2023-24		
	I	Part A - Introductio	n	
Subject		MATERIALS & O	CONSTRUCTION	DETAILS-II
Semeste	er	II		
Name of	the Course	Bachelor of Interio	or Design	
Course	Code	B23-IDS-202		
·	Type: CC/MDC/CC- C/VOC/DSE/PC/AEC/VA	CC-B2		
Level of Annexur	the course (As per re-I	100-199		
Pre-requ any)	isite for the course (if	Senior Secondary (10+2)		
Course Learning Outcomes(CLO): To familiarize the students with construction and cases of traditional building material construction. To understand the use of the building materials in simple building works.			materials used in of these traditional	
Credits		Theory	Practical	Total
		3	1	4
Contact	tHours	3	2	5
Interna	Iarks:100 al Assessment Marks:20(T erm Exam Marks:50(T)+2	· · · ·	Time:3hrs (T) 4hrs(P)	
	Part	<b>B-</b> Contents of the	Course	
questions Instruction	ons for Paper- Setter: The from each unit. ons for the candidate: The atleast one question from ea	candidate will have	_	-
Unit	Topics		Contact Hours	
<ul> <li>Mud and Clay Products: Mud including stabilized earth, Burnt Brinks, Brick Tiles, Brick Ballest and Surkhi,</li> <li>Stone, Lime, Sand, flyash, Surkhi, Cement, Mortar, Concrete: Classification, Availability, Preparation, Characteristics, Manufacturing and Uses.</li> <li>Water Proof Materials: Asphalt, Bitumen, and</li> </ul>		10		

	Synthetic	
II	<ul> <li>Element of building: Terminology, nomenclature if various parts of building from foundation to roof.</li> <li>Brick Works: Brick Terminology, Bonds in Brick work, Detail at junctions, Brick Jalis.</li> <li>Stone Masonry, hollow block, lightweight concrete and glass block construction.</li> </ul>	10
	<ul> <li>Introduction to Built Elements – Study of built elements in the interiors with respect to materials used. Basic construction methods and general specifications.</li> <li>Introduction to basic structural systems</li> <li>Elements of structure &amp; their functions and behavior</li> <li>Beams, slabs, columns, walls, foundations, bearing wall systems, trusses.</li> </ul>	10
IV	• Foundation: simple, stepped, combined, cantilevered footing, RCC footing and raft foundation.	10
V*	<ul> <li>Case Studies.</li> <li>Market Surveys.</li> <li>Visual Presentations.</li> <li>Site Visits.</li> </ul>	30
	Suggested Evaluation Methods	
<ul> <li>Thee</li> <li>Clain</li> <li>Sean</li> <li>Mit</li> <li>Prace</li> <li>Clain</li> </ul>	ass Participation: 05 minar/presentation/assignment/quiz/class test etc.:05 id-Term Exam: 10	End Term Examination: 50 20
	id-Term Exam: NA Part C-Learning Resources	

**Recommended Books/e-resources/LMS:** 

- **Bindra, S.P. and Arora, S.P** Building Construction: Planning Techniques and Methods of Construction, 19th ed. DhanpatRai Pub., New Delhi, 2000.
- Chowdary, K.P.- Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi,1990.
- Francis D.Ching- Building Construction Illustrated, Wiley publishers, 2008.
- Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C.- Building Construction: Materials and Types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
- Rangwala, S.C. -Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.

\*Applicable for courses having practical component.

		Session: 2023-24		
	l	Part A - Introductio	n	
Subject		FURNITURE DE	ESIGN WORKSH	ОР
Semeste	er	II		
Name of	f the Course	Bachelor of Interior Design		
Course	Code	B23-IDS-203		
``	Type: CC/MDC/CC- C/VOC/DSE/PC/AEC/VA	CC-C2		
Level of Annexu	f the course (As per re-I	100-199		
Pre-requ any)	isite for the course (if	Senior Secondary (10+2)		
Course Le	earning Outcomes(CLO):	about analysis of functional aspect materials and pr ergonomically con	of existing piece , technical aspects roperties, biomech	provide knowledge of furniture in its and skill required anical factors and ic consideration and onsideration.
	Credits	Theory	Practical	Total
		3	1	4
	Contact Hours	3	2	5
Interna	/Iarks:100 al Assessment Marks: 20(7 erm Exam Marks:50(T) +2		Time:3 hrs(T) 4 hrs(P)	
	Part	<b>B-</b> Contents of the	Course	
questions Instruction	ons for Paper- Setter: The from each unit. ons for the candidate: The atleast one question from ea	candidate will have	-	-
Unit	_	Topics		Contact Hours
Ι	• Analyzing furniture: Analyzing furniture forms and designing furniture forms scientifically based on ergonomics, material design and working parameters and visual perception of furniture as a single form and as a system in a given interior space.		10	

Π	<ul> <li>Measurement drawing: Measurement drawing of a piece of a furniture-plan, elevation and detail drawings on proper scale.</li> <li>History of furniture from early days to industrial revolution</li> </ul>	10
III	• Modular Aspect: Modular aspect and approach towards all types of furniture, cost criteria of design furniture for lower income sector society.	10
IV	• Furniture Style: Design and understand Post Independence furniture style	10
V*	• Make a sheet work showcasing ancient furniture into modern furniture.	30
	• Measure Drawing of a Piece of Furniture –Draw (With elevations & other details) on full scale.	
	Suggested Evaluation Methods	
≻ T •	al Assessment: heory Class Participation: 05 Seminar/presentation/assignment/quiz/class test etc.:05 Mid-Term Exam: 10	End Term Examination: 50
	racticum	
•	Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA	20
	Part C-Learning Resources	
<ul><li>Wir</li><li>Illus</li></ul>	nmended Books/e-resources/LMS: ndow Fashion, Charles T. Randall stration + Perspectives (In Pantone Colors), EijiMitooka ments of Architecture, MeissPieree Von	

		Session: 2023-24		
	I	Part A - Introductio	n	
Subject		ADVANCED GR	APHICS	
Semeste	er	II		
Name of	the Course	Bachelor of Interio	or Design	
Course	Code	B23-IDS-204		
	Type: CC/MDC/CC- C/VOC/DSE/PC/AEC/VA	CC-M2		
Level of Annexu	<sup>5</sup> the course (As per re-I	100-199		
Pre-requ any)	isite for the course (if	Senior Secondary (10+2)		
Course Learning Outcomes(CLO):		• To impart the techniques of rendering in different media and skills of three dimensional visualization and presentation.		
Credits		Theory	Practical	Total
		1	1	2
Contact	t Hours	1	2	3
Interna	Iarks: 50 al Assessment Marks : 10 erm Exam Marks : 20(TH		Time : 3hrs(T) 4hrs(P)	
	Part	<b>B-</b> Contents of the	Course	
questions Instruction	ons for Paper- Setter: The from each unit. ons for the candidate: The atleast one question from ea	candidate will have	-	-
Unit		Topics		Contact Hours
Ι	<ul><li>interior scheme</li><li>Orthographic p &amp;furniture iten</li></ul>	ching & rendering of es, landscape etc. projections of geomet ns. ching: 500 (submit a	tric forms	7

	submission)	
	,	
II	• Rendering 2d & 3d with different mediums, colours and techniques -Exercise on still life, composition, pictorial views and landscape, interior, exterior etc. and different views with human beings and others natural & manmade objects	6
III	• Serigraphy (screen Printing) in interior Space & Furniture, Drawing Solids, voids	8
IV	• Models, 3D forms: free standing paper models representing	7
	motives, shapes.	
V*	Drawing from imagination-	28
	• Diagramming	
	Drawing Composition	
	• Concept sketches	
	• Design development sketches	
	• Presentation sketches	
	• Presentation drawings	
	Graphical presentations	
	Suggested Evaluation Methods	
	al Assessment:	End Term Examination:
• ;	neory Class Participation: 04 Seminar/presentation/assignment/quiz/class test etc.:00 Mid-Term Exam: 06	20
•	<b>racticum</b> Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:05 Mid-Term Exam: NA	15
		15
_	Part C-Learning Resources	
	<b>mended Books/e-resources/LMS:</b> Architectural Rendering Philip Crowe Architectural Rendering Al	lbert &Habe
•	How to paint & draw Jaxtheimer, Themes & Hudson.	
•	Architectural Rendering by Philip Crowe	
•	Architectural Rendering by Albert & Habe	

- How to paint & draw by Jaxtheimer
- Colour Fundamentals by Graves MAintland
- Colour for Architects by T Porter, D Mikellides
- Anatomy & Drawing by Victor Perard
- Fundamentels of Drawing by Barrington Barber
- The Big book of Drawing & Painting by Francisco AsensioCerver
- The complete book of Drawing Techniques by peter Stanyer
- Watercolour,Oilcolour&Gouache by Wendey Jelbert& Ian Sidaway

## **SEMESTER 3**

	Session: 2023-24			
Part A - Introduction				
Subject	INTERIOR DESI	GN-III		
Semester	III			
Name of the Course	Bachelor of Interior design			
Course Code	B23-IDS-301			
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	CC-A3			
Level of the course (As per Annexure-I	100-199			
Pre-requisite for the course (if any)	Senior Secondary (	10+2)		
Course Learning Outcomes(CLO):	The objective of the course is to introduce the students with the different types of exhibition and presentation spaces and the interior design requirements related to them. The course should involve different design ideas and schemes to represent the designing of exhibition spaces, as these are the prime area of designing emerging in the modern world.			
Credits	Theory	Practical	Total	
	3	1	4	
Contact Hours	3	2	5	
Max. Marks:100 Internal Assessment Marks:20(T End Term Exam Marks:50(T)+2		Time::3hrs (T) 4hrs(P)		
Part	<b>B-</b> Contents of the	Course		
<b>Instructions for Paper- Setter:</b> The questions from each unit.	e examiner will set	eight questions in	all, selecting two	
questions from each unit.				

Unit	Topics	Contact Hours
I	<ul> <li>Applying anthropometry in relation to interior spaces, Various techniques of creating designs &amp; Color scheme in relation to interiors</li> </ul>	10
II	• Layout and Constructional details of furniture units, Application of color, texture, pattern and their psychological effects in interiors.	10
III IV V*	<ul> <li>Exhibition cum Retail Design</li> <li>Interior Design for specific ideas and select materials appropriate to intended purpose and to understand the visuals and functional characteristics, Develop an understanding of structures, special awareness, materials and processes, Develop skills in design development using working drawing, visual, scale models and prototypes</li> <li>Interior Model of the space with all furniture, interior details in place and interior finishes with different colors, Textures.</li> <li>Collection of samples of material for interiors of various parts of buildings, drawing furniture layout of any</li> </ul>	10 10 30
	building. Suggested Evaluation Methods	
ntorr	al Assessment:	End Term
> Th • ( • ;	ar Assessment: neory Class Participation: 05 Seminar/presentation/assignment/quiz/class test etc.:05 Mid-Term Exam: 10	Examination: 50
• (	acticum Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA	20

#### **Recommended Books/e-resources/LMS:**

- Drawing a Creative Process, Francis D.K. Ching
- Design Drawing + CD, Francis D.K. Ching
- Architecture Graphics, Francis D.K. Ching 4th Edition
- Interior design & space planning, DechiaraPaberoZelnik
- Interior design illustrated, Francis D.K. Ching
- Graphic Interiors
- Space Designed by Graphic Artists, Corina Dean
- Home Plumbing (The David & Charles Manual of), Ernest Hall
- House Book (The Complete Guide to Home Design), Terence Conran
- Illustration + Perspectives (In Pantone Colors), EijiMitooka

		Session: 2023-24		
	I	Part A - Introductio	n	
Subject		MATERIALS & C	CONSTRUCTION	DETAILS-III
Semeste	r	III		
Name of	the Course	Bachelor of Interio	or design	
Course (	Code	B23-IDS-302		
·	Type: C/MDC/CC- C/VOC/DSE/PC/AEC/VA	CC-B3		
	Level of the course (As per Annexure-I 100-199			
Pre-requi any)	isite for the course (if	Senior Secondary (	10+2)	
Course Learning Outcomes(CLO):		To introduce and familiarize the students with advanced and speedy building techniques The understanding for the system to be adopted for the construction of large span structures.		
Credits		Theory	Practical	Total
		3	1	4
Contact	Hours	3	2	5
Interna	larks:100 l Assessment Marks:20(T rm Exam Marks:50(T)+2		Time:3hrs (T) 4hrs(P)	
	Part	<b>B-</b> Contents of the	Course	
questions	ons for Paper- Setter: The from each unit. ons for the candidate: T			-
selecting a	tleast one question from ea	ach unit.		
Unit		Topics		Contact Hours
Ι	• Building Materials -Physical and behavioral properties of materials, their application in the construction of floors, walls, ceilings, walls, doors, windows, staircases, built in furniture, partitions and other interior design components.		10	

II	Reinforced Cement Concrete: Types, Mixing, Curing, Water Cement Ratio, and reinforced Brick	10
	Concrete, Qualities and workability.	
III	• Prefabrication- Pre-casting methods, materials, on – site and off- site prefabrication, components etc.	11
IV	• Introduction to false ceiling with Gypsum, POP, Grid Ceiling, types and fixing methods.	10
V*	Case studies/ market surveys/ visual presentations/ site visits/ drawings.	30
	• Market surveys to be conducted to find out the commercial	
	and technical names, sizes, codes for materials, testing,	
	fabrication, commercial methods of pricing, billing etc.	
	Suggested Evaluation Methods	
≻ Tł	al Assessment: neory Class Participation: 05	End Term Examination 50
• 5	Seminar/presentation/assignment/quiz/class test etc.:05 Mid-Term Exam: 10	
	acticum	
• 5	Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA	20
	Part C-Learning Resources	
	mended Books/e-resources/LMS: isual Dictionary of Architecture, Francis D.K. Ching	
• Inter	rior design illustrated, Francis D.K. Ching	
• Hou	se Book (The Complete Guide to Home Design), Terence Conran	
• Mas	onry (Concrete, Brick, Stone), Christine Beall	
- M-4	ric Handbook (Planning & Design Data) 2nd Ed. Edited By, David	A dla

	Session: 2023-24			
]	Part A - Introductio	n		
Subject		<b>BUILDING SERVICES- I</b> (Water Supply & Sanitation)		
Semester	III			
Name of the Course	Bachelor of Interio	or design		
Course Code	B23-IDS-303			
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	CC-C3			
Level of the course (As per Annexure-I	100-199			
Pre-requisite for the course (if any)	Senior Secondary (	10+2)		
Course Learning Outcomes(CLO):	The objective of the course is to provide a clear understanding about the Water Supply, Sanitation and waste water disposal system in a building a part of the building services and know the lates market trends and requirements.			
Credits	Theory	Practical	Total	
	3	1	4	
Contact Hours	3	2	5	
Max. Marks:100 Internal Assessment Marks:20(1 End Term Exam Marks:50(T)+2	, , ,	Time:3hrs (T) 4hrs(P)		
Part	<b>B-</b> Contents of the	Course		

Unit	Topics	Contact Hours
Ι	Introduction to Building Services emphasis on Water Supply, Sanitation and Drainage, Water supply and distribution system at building level taking two-story building as example.	10
II	Sanitation disposal, sanitary layout and fixture setting at	10
	building level, Toilet & Kitchen layout of a residential	
	building with sanitary fitting & Fixture.	
III	Piping system / I.C / G.T. and with all its types, Storm	11
	water drainage system in a building, Pipes and fittings,	
	materials, size and classification.	
IV	Under ground, overhead and internal storage tanks and supply lines.	10
V*	<ul><li>Market survey of all the sanitary products.</li><li>Collect samples of different types and sizes of pipe</li></ul>	30
	Suggested Evaluation Methods	
≻ T] •	al Assessment: heory Class Participation: 05 Seminar/presentation/assignment/quiz/class test etc.:05 Mid-Term Exam: 10	End Term Examination: 50
	racticum	
•	Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA	20
	Part C-Learning Resources	
	nmended Books/e-resources/LMS: Home Plumbing The David & Charles Manual, Ernest Hall	
•	Water Supply & Sanitation, Charanjit S. Shah	
•	The Construction of Building Vol - 1 to 5, R. Barry	
•	Building Construction, N.L. Arora &, B.R. Gupta	
	The Books of Kitchens, Anthony Rowley	

		Session: 2023-24		
	I	Part A - Introductio	n	
Subject		SCULPTURE MA	KING	
Semester		III		
Name of th	he Course	Bachelor of Interio	or design	
Course Co	ode	B23-IDS-304		
	ype: 2/MDC/CC- VOC/DSE/PC/AEC/VA	CC-M3		
Level of the course (As per Annexure-I		100-199		
Pre-requisi any)	ite for the course (if	Senior Secondary (	10+2)	
Course Learning Outcomes(CLO):		<ul> <li>Introduction to sculpture-basic elements and their relationships -Sculptural exercises based or studies from nature, human figures or other areas of contact.</li> <li>Study of different mediums</li> </ul>		
	Credits	Theory	Practical	Total
		3	1	4
	Contact Hours	3	2	5
	arks:100 Assessment Marks::20(7 m Exam Marks:50(T)+2			
	Part	<b>B-</b> Contents of the	Course	
Instruction	s for Paper- Setter: The	e examiner will set	eight questions ir	all, selecting two
questions fr	rom each unit.			
<b>Instruction</b>	as for the candidate: T	he candidate will h	have to attempt five	ve questions in all,
selecting atl	least one question from ea	ach unit.		
Unit		Topics		Contact Hours
Ι	• •	est wax process (Cire ng process, The Built & Coloring.	, <b>U</b>	12

II	Knowledge about foundry, Pit blast furnace, Blast furnace, Gas furnace, Coal furnace, Diesel furnaces, Mould baking Procedure.	10
III	Cement concrete casting, P.O.P. casting, Fiber glass casting, Paper pulp casting. Paper mesh, Ceramic Mural.	9
IV	Stone carving techniques on marble, sand stone, &granite, Understanding about stone carving techniques and tool, Wood carving techniques according to the maquette, Understanding about wood carving techniques and tool, Colouring on wood & seasoning	8
V*	Four to five exercises using different mediums	30
	Suggested Evaluation Methods	
≻ T • •	hal Assessment: Theory Class Participation: 05 Seminar/presentation/assignment/quiz/class test etc.:05 Mid-Term Exam: 10	End Term Examination: 50
•	racticum Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA	20
	Part C-Learning Resources	
Recor	<b>mmended Books/e-resources/LMS:</b> Sculpture in plastic arts – Nicholas Roukas	

## **SEMESTER 4**

		Session: 2023-24		
	F	Part A - Introductio	n	
Subject		INTERIOR DESI	GN-IV	
Semester		IV		
Name of the Course		Bachelor of Interio	or design	
Course Code		B23-IDS-401		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/A C)	EC/VA	CC-A4		
Level of the course (As per Annexure-I	•	100-199		
Pre-requisite for the course any)	(if	Senior Secondary (	10+2)	
Course Learning Outcomes(	CLO):	<ul> <li>The objective of the course is to introduce the students with the Interior design of Primary school and Library.</li> <li>The course should involve different design ideas and schemes to represent the designing, as these are the prime area of designing emerging in the modern world.</li> </ul>		
Credits		Theory	Practical	Total
		3	1	4
Contact Hours		3	2	5
Max. Marks: 100 Internal Assessment Mar End Term Exam Marks:	-		Time: 3 hrs(T) 4 hrs(P)	
	Part	B- Contents of the	Course	
Instructions for Paper- Sequestions from each unit. Instructions for the candid selecting atleast one question	<u>ate:</u> The	candidate will have		-
Unit		Topics		Contact Hours

Ι	• Applying anthropometry in relation to interior spaces of primary school, Various techniques of creating designs & Color scheme in relation to interiors	11
II	• Layout and Constructional details of furniture units used in school and library, Application of color, texture, pattern and their psychological effects in interiors.	10
III	Primary School & Library	12
	Interior Design for specific ideas and select materials	
	appropriate to intended purpose and to understand the visuals	
	and functional characteristics.	
IV	Interior Model of the space with all furniture, interior details in place and interior finishes with different colors, Textures.	12
V*	Collection of samples of material for interiors of various	30
	parts of buildings color, texture, modulations and pattern	
	evolution. Material, workmanship, specification etc.	
	• Prepare a model of the project.	
	Suggested Evaluation Methods	
≻ Th • (	al Assessment: eory Class Participation: 05 Geminar/presentation/assignment/quiz/class test etc.:05	End Term Examination: 50
	Aid-Term Exam: 10	20
➤ Practicum		20
• ( • S	Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10 Aid-Term Exam: NA	
• ( • S	Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10	
• ( • S • N Recom	Class Participation: Geminar/Demonstration/Viva-voce/Lab records etc.:10 Aid-Term Exam: NA	
• ( • S • N • N • Drav	Class Participation: Geminar/Demonstration/Viva-voce/Lab records etc.:10 Aid-Term Exam: NA Part C-Learning Resources mended Books/e-resources/LMS:	
• ( • S • M • M • Drav • Desi	Class Participation: Geminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA Part C-Learning Resources mended Books/e-resources/LMS: ving a Creative Process, Francis D.K. Ching	
<ul> <li>C</li> <li>S</li> <li>M</li> </ul> Recommons <ul> <li>Draw</li> <li>Desi</li> <li>Arch</li> </ul>	Class Participation: Geminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA Part C-Learning Resources mended Books/e-resources/LMS: wing a Creative Process, Francis D.K. Ching gn Drawing + CD, Francis D.K. Ching	

- Graphic Interiors
- Space Designed by Graphic Artists, Corina Dean
- Home Plumbing (The David & Charles Manual of), Ernest Hall
- House Book (The Complete Guide to Home Design), Terence Conran
- Illustration + Perspectives (In Pantone Colors), Eiji Mitooka

	Session: 2023-24		
]	Part A - Introductio	on	
Subject	MATERIALS &	CONSTRUCTION	DETAILS-IV
Semester	IV		
Name of the Course	Bachelor of Interi	or design	
Course Code	B23-IDS-402		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	CC-B4		
Level of the course (As per Annexure-I	100-199		
Pre-requisite for the course (if any)	Senior Secondary (	10+2)	
Course Learning Outcomes(CLO):	and speedy build	familiarize the stud ling techniques The adopted for the co	understanding for
Credits	Theory	Practical	Total
	3	1	4
Contact Hours	3	2	5
Max. Marks:100 Internal Assessment Marks:20(7 End Term Exam Marks:50(7)+2		Time::3hrs (T) 4hrs(P)	

#### **Part B- Contents of the Course**

Instructions for Paper- Setter: The examiner will set eight questions in all, selecting two questions from each unit.

Unit	Topics	Contact Hours
Ι	• Metals – Steel, iron, aluminum, bronze, brass, copper	10
	– alloys, characteristics, form and uses, properties,	
	definition of terms, methods of working with metals,	
	fixing and joinery in metals, finishing and treatment	
	to metals.	
	• Application of Metals to Built Form and Interiors -	
	Special doors and windows, ventilators – sliding,	
	sliding and folding, revolving, pivoted, rolling,	
	collapsible, dormer, skylights, clerestory etc.	
II	• Fabrics and Other Furnishing Materials – Fibers,	11
	textiles, fabric treatments, carpets, durries, tapestries,	
	draperies, upholstery, wall coverings, etc. –	
	properties, uses and application in the interiors.	
	• Miscellaneous materials such as cork, leather, paper,	
	rexene etc. – their properties, uses and applications in	
	the interiors. A brief overview of green materials.	
III	Glazing-Skylights, Curtain walls, Double glazing, Eco	10
	Boards, wood and its products	
IV	Understanding various types of boards and hardware for	9
	kitchens cabinets with fittings/ fixtures/accessories and construction details with finishing schedules.	
V*	Design and construction with fittings/fixtures/details of a bedroom wardrobe with finishes.	30
	Suggested Evaluation Methods	

<ul> <li>Internal Assessment:</li> <li>➤ Theory <ul> <li>Class Participation: 05</li> <li>Seminar/presentation/assignment/quiz/class test etc.:05</li> <li>Mid-Term Exam: 10</li> </ul> </li> <li>&gt; Practicum <ul> <li>Class Participation:</li> <li>Seminar/Demonstration/Viva-voce/Lab records etc.:10</li> <li>Mid-Term Exam: NA</li> </ul> </li> </ul>	End Term Examination: 50 20
Part C-Learning Resources	I
<b>Recommended Books/e-resources/LMS:</b> • Bindra, S.P. and Arora, S.P- Building Construction: Planning Tec	chniques and methods of
Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.	
• Chowdary, K.P- Engineering Materials used in India, 7th ed. Oxfo Delhi,1990.	rd and IBH, New
• Francis D. Ching- Building Construction Illustrated, Wiley publish	ners, 2008.
• Moxley, R. Mitchell"s -Elementary Building Construction, Techni	cal Press Ltd.
Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House	e Anand, 2004.
Rangwala, S.C- Building Construction: Materials and Types of Co Wiley and Sons, Inc., New York, 1963.	nstruction, 3rd ed. John
• <b>S.K. Duggal</b> - Building Materials, Illustrated, A.A.Balkema,1998.	

	Session: 2023-24		
	Part A - Introductio	on	
Subject	BUILDING SERV (Electrical Systems		
Semester	IV		
Name of the Course	Bachelor of Interi	or design	
Course Code	B23-IDS-403		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	CC-C4		
Level of the course (As per Annexure-I	100-199		
Pre-requisite for the course (if any)	Senior Secondary (	10+2)	
Course Learning Outcomes(CLO):	systems and fix	nts into theory and practices. Introduction ain supply, fittings an	to reception and
Credits	Theory	Practical	Total
	3	1	4
Contact Hours	3	2	5
Max. Marks:100 Internal Assessment Marks:20(7 End Term Exam Marks:50(T) +		Time:3 hrs(T) 4 hrs(P)	
Part	B- Contents of the	Course	
Instructions for Paper- Setter: Th	e examiner will set	eight questions in a	all, selecting two
questions from each unit.			

Unit	Topics	Contact Hours
Ι	Properties of light, distribution of lighting, control points and layout	10
II	Natural/artificial lighting, Lighting of spaces, Lighting	10

	Equipment, Lighting conditions, Various systems of lighting	
III	Methods of Internal/ external wiring, Branch distribution boards, Lighting layout, fittings and fixtures	10
IV	Formation of plan, Symbols, Standard Height, its advantages & disadvantages.	10
V*	Prepare Electrical plan for 2BHK	30
	Suggested Evaluation Methods	
nterr	nal Assessment:	End Term
≻ T ●	heory Class Participation: 05 Seminar/presentation/Assignment/quiz/class test etc.:05 Mid-Term Exam: 10	Examination: 50
> T • • • > P	heory Class Participation: 05 Seminar/presentation/Assignment/quiz/class test etc.:05	Examination:
> T • • • > P	heory Class Participation: 05 Seminar/presentation/Assignment/quiz/class test etc.:05 Mid-Term Exam: 10 racticum Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10	Examination: 50
≻ T •	heory Class Participation: 05 Seminar/presentation/Assignment/quiz/class test etc.:05 Mid-Term Exam: 10 racticum Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:10 Mid-Term Exam: NA	Examination: 50