ALAGAPPA UNIVERSITY

(Accredited with A+ Grade by NAAC (CGPA: 3.64) in the Third Cycle, Graded as Category-I University and granted autonomy by MHRD-UGC)

DIRECTORATE OF COLLABORATIVE PROGRAMMES



P.G. Diploma in Interior Design

Regulations and Syllabus [For those who join the Course in July 2023 and after] CHOICE BASED CREDIT SYSTEM

Regulations and Syllabus

PG DIPLOMA – INTERIOR DESIGN

Name of the Programme	: PGDID. (PG Diploma)
Pattern	: Semester System
Mode	: Collaborative Programs
Medium	: English
Duration	: One Year
Eligibility	: Any Under graduate program of minimum 3-year duration in any specialization, after 10+2 system, from any university or institute recognized by law in India.
	Full-time Diploma of minimum 3-year duration in Design / Fine Arts / Applied Arts / Architecture, Visual Communication, Animation, Film & Video Making or any courses related to Interior Design curriculum after 10th SSLC system, from any university or institute recognized by law in India

STANDARD OF PASSING AND AWARD OF DIVISION:

- a) Students shall have a minimum of 50% of total marks of the University examinations in each subject. The overall passing minimum is 50% both in aggregate of Continuous Internal Assessment and External Assessment in each subject.
- b) The overall passing minimum is 50% both in the external and aggregate of Internal and external in each subject. There are no minimum prescribed marks for pass in the internal assessment.
- c) A candidate who secures 50% or more marks but less than 60% of the aggregate marks shall be awarded **SECOND CLASS.**
- d) A candidate who secures 60% or more of the aggregate marks shall be awarded FIRST CLASS.

CONTINUOUS INTERNAL ASSESSMENT:

The respective course faculty will continuously assess the performance of students in each course. The continuous Internal Assessment marks shall be awarded by the concerned course faculty based on the performance of the students in case studies, presentations, quizzes, practical, tests and other assignments.

ATTENDANCE:

Students who secure at least 80% of attendance in the year will only be eligible to appear for the examination of that year. Those who fail to secure the required attendance shall repeat the same year/ course during the subsequent academic year.

UNIVERSITY EXAMINATIONS:

The University theory examinations will be held at the end of each Semester that has a theory paper for a duration of three hours for each subject.

EVALUATION OF ANSWER PAPERS:

Answer papers of the University Examinations shall be subjected to evaluation by a Board of Examiners constituted by Alagappa University.

COURSE COMPLETION

Students shall complete the programme within a period not exceeding 5 years from the year of completion for the period of study.

PROGRAMME CONTENT AND SCHEME OF EXAMINATIONS

The course of study shall comprise the following subjects according to the syllabus prescribed from time to time.

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Semeste	Course Code	Sub. Coo	Title of the Paper	Theory Practica	Credits	Hours/V	Int.	Ext.	Total
	CC	100211	Elements of Interior Design	Т	4	5	25	75	100
	CC	100212	Building materials	Т	4	5	25	75	100
Ι	CC	100213	Architectural Drawings	Р	5	10	25	75	100
	CC	100214	Residential Interior space Design	Р	5	10	25	75	100
			Total		18	30	100	300	400
	CC	100221	Building Services	Т	4	5	25	75	100
	CC	100222	Professional Practice & Estimation	Т	4	5	25	75	100
п	CC	100223	Office Design	Р	5	10	25	75	100
11	CC	100224	Computer Aided Design	Р	5	10	25	75	100
		Total					100	300	400
	Grand Total					60	200	600	800

P.G. Diploma in Interior Design

Note:

For Theory: 1 Credit = 1 Hour

For Practical: 1 Credit = 2 Hours

GLOSSARY

MIL	Modern Indian Language
Ε	English
CC	Core course
	(Core competency, critical thinking, analytical reasoning, research skill & team work)
GEC(Allied)	Exposure beyond the discipline
AECC	Ability Enhancement Compulsory Course
	((Professional English & Environmental Studies) - Additional academic knowledge, psychology and problem solving etc.,)
OE	Open Elective
SEC	Skill Enhancement Course
	(Exposure beyond the discipline -Value Education, Entrepreneurship Course, Computer Application for Science, etc.,)
NME	Non-Major Elective
	(Exposure beyond the discipline)
DSE	Discipline Specific Elective
MOOC	Massive Open Online Course
IT	Information Technology

Programme Educational Objectives (PEOs)

Programme Educational Objectives	On successful completion of the P.G. Diploma in Interior design program, the graduate student is expected to achieve the following after graduation
PEO1	Graduates will demonstrate a deep understanding of interior design concepts and principles, enabling them to create aesthetically pleasing and functional spaces.
PEO2	Graduates will have the ability to critically analyze and select appropriate building materials and finishes for interior design projects, considering sustainability and environmental impact
PEO3	Graduates will be proficient in interpreting and creating architectural drawings, allowing them to effectively communicate design ideas to clients and stakeholders.
PEO4	Graduates will excel in residential interior space design, integrating user needs, cultural aspects, and safety considerations into their designs.
PEO5	Graduates will possess the knowledge and skills required to incorporate building services and technology into interior design solutions, ensuring comfortable and efficient spaces.

Programme Specific Outcomes (PSOs)

Programme Specific Outcomes	After the successful completion of the Interior Design Program
PSO1	Graduates will be able to analyze and evaluate building materials and finishes to make informed decisions that enhance interior design projects.

PSO2	Graduates will demonstrate proficiency in creating architectural drawings and using computer-aided design tools to produce accurate and comprehensive design documentation.
PSO3	Graduates will apply principles of residential interior space design to develop innovative and practical solutions that meet user needs and expectations.
PSO4	Graduates will integrate building services seamlessly into interior design projects, optimizing the functionality and sustainability of spaces.
PSO5	Graduates will exhibit a strong understanding of professional practices and estimation methods, enabling them to manage interior design projects effectively.

Programme outcomes (POs)

Programme Outcomes	On the successful completion of P.G. Diploma in Interior design
PO1	Demonstrate a comprehensive knowledge of the fundamental elements and principles of interior design.
PO2	Analyze and select appropriate building materials, finishes, and furnishings for interior design projects, considering aesthetic, functional, and environmental aspects.
PO3	Interpret and create architectural drawings and design documentation using industry-standard software and techniques.
PO4	Apply design principles to residential interior space design, considering user needs, cultural influences, and safety requirements.
PO5	Integrate building services, including HVAC, lighting, and plumbing, into interior design solutions to enhance comfort and functionality.
PO6	Implement professional practices and estimation methods to effectively plan, execute, and manage interior design projects.
PO7	Design office spaces that optimize productivity, functionality, and employee well-being.
PO8	Utilize computer-aided design tools for efficient and accurate interior design communication
PO9	Apply principles of sustainable design and environmental responsibility in interior design projects.
PO10	Evaluate and adapt to modern trends and technologies in the field of interior design, including computer-aided design and building services integration.

SEMESTER 1

СС	100211	Elements of Interior Design	Т	Credits -4	Hours - 5					
Objectives	 Master interior design fundamentals, principles, and concepts to create capit/ating spaces. Excel in lighting design to illuminate diverse interior atmospheres. Perfect finishes and decor elements to enhance visual appeal. Innovate furniture design to optimize comfort and functionality. Enhance interior aesthetics through careful composition of elements 									
Unit I	Introduction to Interio Themes and Concepts	Introduction to Interior Design - Definition of interior design. Elements and Principles. Themes and Concepts. Color. Anthropometrics details								
Unit II	Elements of Interior Design - Elements – Ceiling, walls, Flooring, Fenestrations. Openings – Doors and Windows. Access – Corridor, Staircase enclosing, Fenestration. Functions of Access element. Character – Aesthetic and psychological. Their Composition in terms scale proportion, texture, color etc. Methods of treatment in terms of material construction to express functional aesthetics and psychological effects.									
Unit III	Lighting - Study of in specific purpose. Dif interiors and planning	terior lighting. Artificial and natural lightering for the second s	ghtin cts. I	g. Requiremen Locating lighti	t of light for ng points in					
Unit IV	Finishes and Decorati Murals, Sculpture. Inc	ve Accessories- Carpets, Rugs, Wall pa loor Plants. Wall hanging, Venetian bli	apers inds.	, Valances, Pa	inting.					
Unit V	it V Furnitures - Study of relationship of furnitures to space human movements. Furniture design as related to human comfort, functions. Materials, Methods of construction. Innovations and design ideas. Study on furnitures for specific function of interior, like office furniture residential furniture, display systems etc. cabinet, ward robes, curio shelves, room dividers									
Reference and	Text books									
Interior Des	sign- John F Pile- Harr	y Abrams Inc.								
 Frincipies & Human Din and Martin 	y Design in Architectur nension and Interior Spo Zelnick- Watson- Gupti	e- sminnes- Chapman and Hall ace: A source book of Design Reference Il	e star	ndards- Julius	Panero					
Web Resources	s <u>https://www.extensior</u> b.berkeley.edu/c.php?g:	n.iastate.edu/4hfiles/statefair/eehandboo =920740&p=6634741	ok/ee	hjpdesign4h63	<u>4.pdf</u>					

https://www.wichita.edu/services/mrc/oir/creative/1design/design-elements.php https://www.uncp.edu/sites/default/files/2017-12/guidelines27.pdf

https://www.slideshare.net/SurashmieKalmegh/finishes-to-wooden-furniture-and-otherspdf https://hosting.iar.unicamp.br/lab/luz/ld/Arquitetural/manuais/Lighting%20Design%20Basics.pdf

	Course Outcomes	Knowledge Level
CO1	Identify, understand, compose, and apply the elements of interior design	K1
CO2	Illustrate the use of components, composition, and materials to create and construct interior spaces.	К3
CO3	Learn to design and implement effective interior lighting schemes.	K2
CO4	Explain use of components, composition, and materials to create and construct interior spaces.	K4
CO5	Develop how to create and choose useful and comfortable furniture for certain interior spaces.	K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3(S)	1(L)	-	2(M)	-	1(L)	2(M)	-	1(L)	-
CO2	-	3(S)	1(L)	1(L)	1(L)	-	2(M)	1(L)	-	-
CO3	2(M)	1(L)	2(M)	2(M)	-	2(M)	2(M)	1(L)	-	-
CO4	2(M)	3(S)	-	-	-	-	1(L)	-	1(L)	-
CO5	1(L)	1(L)	1(L)	-	-	1(L)	3(S)	2(M)	-	1(L)
W. AV	1.6	1.8	0.8	1	0.2	0.8	2	0.8	0.4	0.2

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	-	2(M)	1(L)	1(L)
CO2	2(M)	3(S)	1(L)	1(L)	2(M)
CO3	1(L)	-	2(M)	-	3(S)
CO4	3(S)	-	-	2(M)	1(L)
CO5	-	2(M)	2(M)	-	1(L)
W. AV	1.2	1	1.4	0.8	1.6

CC	100212	Building materials	Т	Credits -4	Hours - 5						
Objectives	 Master various construction materials for interior design applications. Develop construction expertise in brick, stone, timber, glass, and steel. Learn material selection based on properties and aesthetics. Apply materials in interior projects effectively and creatively. Embrace safety and sustainability in material choices. 										
Unit I	Brick: Qualities of goo laying & size. Stone: (textures and application cement Application of	Brick: Qualities of good brick, Field test, Terminology, Precautions to be taken in brick laying & size. Stone: Classification, Qualities of good stone Laying Dressing Different textures and applications. Sand: Types and application Cement: Types, Field test for cement Application of cement									
Unit II	Timber: Types, Cross in interior, Timber join boards etc. Wood Bas plywood, block board	Timber: Types, Cross sections of exogenous tree Defects in timber, Seasoning, Application in interior, Timber joinery Application of artificial timber e.g. veneers, plywood, block boards etc. Wood Based Products: Comparative properties and uses of the commercial plywood, block board, particle board, teak plyboard etc. Roof Trusses & Floor construction.									
Unit III	Glass: Properties, siz safety, insulating, col glass in various interio	es, design, prices and availabil oured, tinted, heat resistant and ors. Clay products: - wall & floo	ity of sl l glass b r tiles, ro	neet, plate, win locks. Types A of tiles, Terrac	red, laminated, Applications of otta Products						
Unit IV	Paints, Varnishes: Typapplication	pes and applications in various in	nteriors.	Hard ware: Tyj	pes and						
Unit V	Steel & other metal alloys. Steel used for furniture making, sizes and availability of steel for various functions and various shapes. Properties & use of steel, aluminum for construction. Construction of floors, roof & walls using steel.										
Reference andBuilding coEngineeringBuilding Co	Text books nstruction- Dr. B.C.Pun materials used in India onstruction: Materials an	umia- Laxmi publications Pvt.Lto - Chowdary K P- Oxford and IE nd types of Construction- Rangw	d BH vala- Joh	n Wiley and Sc	ons						
Web Resources https://uomustan https://www.scr https://www.slic https://bharatski https://www.slic	s nsiriyah.edu.iq/media/le ibd.com/document/4484 leshare.net/HNGfloatgl lls.gov.in/pdf/E_Books. leshare.net/deepthithang	ectures/5/5 2022 02 11!07 31 439488/timber-notes-pdf ass/glass-in-interior-design /IDD_Volume_II_of_II_Theory garaj/building-materials-and-cor	54_PM.p .pdf astructior	o <u>df</u> n-steel-interiors	2						

	Course Outcomes	Knowledge Level
CO1	Recognize the materials and processes used in bricklaying and masonry, gain information, skills, and abilities required to design, build, and assess brick and stone buildings.	K1
CO2	Convey knowledge on timber, wood-based goods, joinery processes, and structural systems used in interior design and construction.	K4
CO3	Justify and select glass and clay products, incorporating them effectively in diverse interior design applications.	К5
CO4	Showcases competence in the selection and application of paints, varnishes, and hardware to improve and functionalize interior spaces.	К3
CO5	Presenting skills in choosing and employing steel and metal alloys for furniture, building, and structural components in interiors.	К5

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	-	2(M)	-	-	-	-	-	-	-	-
CO2	-	3(S)	-	-	-	-	-	-	1(L)	-
CO3	-	2(M)	-	3(S)	-	1(L)	1(L)	-	2(M)	-
CO4	2(M)	2(M)	-	1(L)	-	1(L)	1(L)	-	1(L)	-
CO5	2(M)	2(M)	-	2(M)	-	-	2(M)	1(L)	-	-
W. AV	0.8	2.2	0	1.2	0	0.4	0.8	0.2	0.8	0

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3(S)	-	-	2(M)	-
CO2	-	-	-	1(L)	1(L)
CO3	1(L)	-	1(L)	-	-
CO4	2(M)	-	2(M)	-	1(L)
CO5	2(M)	-	1(L)	2(M)	-
W. AV	1.6	0	0.8	1	0.4

CC	100213	Architectural Drawings	Р	Credits -5	Hours - 10				
Objectives	 Master draftsmanship techniques and tools. Communicate design ideas with precision. Effectively use symbols for architectural elements. Enhance presentation skills with rendering techniques. Accurately represent building components in drawings. 								
Unit I	Draftsmanship- Introd Draftsmanship 2. Nee 3. Relationship betwee Tools and techniques.	luction to Draftsmanship. Draftsmansh d for training, duties determining need en two-dimensional and three dimensio	ip 1. s and onal o	Introduction to l wishes of the diagrams Draft) client ing				
Unit II	Lines – Types of lines Dimensioning – Type	and lines thickness - Lettering – Singles of dimensioning, different types of di	le str imen	oke letter, Goth sioning lines	nic letters.				
Unit III	Architectural Symbols and electrical symbols	s, Structural symbols, window and doo	or syn	nbols , Plumbin	ng symbols				
Unit IV	Rendering Techniques for a plan, section and be used to prepare the techniques required for sciography in planned fin, portico.	s – Understanding the significance of r elevation in the context of presentatio presentation drawing of a residential b or perspective view. Principles and tech elevation of simple objects like, rectan	ende n – s ouildi nnica ngle,	ring techniques ketching techn ing. Understand l method of cas square, circle,	s required iques may ding the sting sunshade,				
Unit V	Unit V Architectural Drawings- Architectural representation of various building components like doors, windows, partitions, furniture and other necessary design components in the contex of a plan section and elevation. Measured Drawing								
Reference and	Text books								
• Drawing-A	creative process, Fran	cis D K, Ching, John Wiley Sons, New	York						
• Geometrica 1995.	l drawing for art studer	its, 2nd revised edition- I.H.Morris, Oi	rıent	Longman. Cale	cutta,				
Architecture	al drafting and design, 4	4th edition- Earnest R. Weidhaas, Ally	n anc	l Bacon, Boston	<i>n</i> .				

Web Resources

https://fac.ksu.edu.sa/sites/default/files/ch 3 free hand sketching.pdf https://www.iitg.ac.in/kpmech/me111-2016/orthographic%20projections-1%20(2016).pdf https://www.ktunotes.in/wp-content/uploads/2018/02/session-5-isometric-projection.pdf https://www.scribd.com/document/471242922/shade-and-shadows

	Course Outcomes	Knowledge Level
CO1	Understand the principles of drafting, such as customer needs analysis and the translation of 2D and 3D designs utilizing drafting tools and methods.	K2
CO2	Investigate line kinds, lettering styles, and dimensioning procedures, which are necessary for clear and exact architectural drawing.	K4
CO3	Utilize architectural, structural, window, door, plumbing, and electrical symbols for accurate design representation.	K6
CO4	Incorporate rendering techniques like as drawing, perspective views, and sciography to create excellent architectural presentations.	K5
CO5	Ability to create architectural drawings displaying building components, furnishings, and measured drawings with precision.	K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	-	-	3(S)	-	-	1(L)	1(L)	3(S)	-	2(M)
CO2	1(L)	-	2(M)	-	-	1(L)	1(L)	1(L)	-	-
CO3	2(M)	-	1(L)	-	-	2(M)	-	1(L)	-	1(L)
CO4	-	-	3(S)	-	-	`-	-	3(S)	-	3(S)
CO5	-	2(M)	3(S)	-	-	1(L)	-	3(S)	-	2(M)
W. AV	0.6	0.4	2.4	0	0	1	0.4	2.2	0	1.6

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	3(S)	1(L)	-	2(M)
CO2	-	2(M)	2(M)	-	1(L)
CO3	1(L)	1(L)	-	-	2(M)
CO4	-	3(S)	1(L)	-	1(L)
CO5	-	3(S)	-	-	1(L)
W. AV	0.2	2.4	0.8	0	1.4

I. Plan residential spaces efficiently considering physical, social, and psychological needs. Objectives I. Create comprehensive project plans, including layouts, sections, and perspectives. I. Develop detailed working drawings for residential buildings. S. Proficiently prepare service drawings for drainage, electrical, water supply, and stormwater management in residential projects. Unit I Residential space planning with respect to physical, social & psychological needs. Developing the plan as per the design brief. Developing schematic space planning solutions for residential buildings To get acquainted with the basic interior design concepts related to the Interior Business. Learn and understand the gap between the technological knowledge acquired through curriculum and the actual industrial need and to compensate it by acquiring additional house of design effectively. Preparing Bubble Diagrams Unit III Preparing concept drawings & Mood boards, make freehand sketches use elements and principles of design effectively. Preparing Bubble Diagrams Unit III A conter line drawing ba to be prepared for a typical residential building in the context of marking. An approval drawing of a residential building to be prepared with all necessary details. Unit IV A center line drawing bas to be prepared for a typical residential building. Service drawing - A drainage service drawing to be prepared for a typical residential building. An approval drawing of a residential building to be prepared for a typical residential building. An electrical service drawing to be prepared for a typica	CC	100214	Residential Interior space Design	Р	Credits - 5	Hours - 10	
Unit I Residential space planning with respect to physical, social & psychological needs. Developing the plan as per the design brief. Developing schematic space planning solutions for residential buildings Unit II To get acquainted with the basic interior design concepts related to the Interior Business. Learn and understand the gap between the technological knowledge acquired through curriculum and the actual industrial need and to compensate it by acquiring additional knowledge as required. Preparing concept drawings & Mood boards, make freehand sketches use elements and principles of design effectively. Preparing Bubble Diagrams Init III Preparation of Furniture layout Plan, section and elevations of a residential project Flooring layout, electrical plan, false ceiling plan, service plan, Perspective views Preparation of material board, estimation and Model Unit IV A working drawing of a residential building has to be prepared showing all necessary details. Service drawing - A drainage service drawing to be prepared for a typical residential building. An approval drawing to be prepared for a typical residential building a water supply service drawing to be prepared for a typical residential building. Storm water drainage along with rainwater harvesting details are to be showr for a residential building. Reference and Text books Introduction to Home Furnishings- Stepat, D.D- The Mac Millan Co, New York,(1971), Contemporary Decorating- Wilhide, E and Copestick, I- Conron octopus Ltd, London (2000) Textbook of Home Science- Mullick.P- Kalyani publishers, New, Delhi(2000) BONSAI – The Art of Growing Miniature Trees- Dey, S.C- Agrobios (India) publishers, Jodh	Objectives	 Plan reside needs. Bridge the design. Create com perspective Develop de Proficiently stormwater 	ntial spaces efficiently considering phys gap between academic knowledge and i nprehensive project plans, including layo es. etailed working drawings for residential y prepare service drawings for drainage, management in residential projects.	ical, soc ndustry outs, sec building electric	cial, and psyc needs in inter ctions, and gs. al, water supp	hological rior oly, and	
Unit II To get acquainted with the basic interior design concepts related to the Interior Business. Learn and understand the gap between the technological knowledge acquired through curriculum and the actual industrial need and to compensate it by acquiring additional knowledge as required. Preparing concept drawings & Mood boards, make freehand sketches use elements and principles of design effectively. Preparing Bubble Diagrams Unit III Preparation of Furniture layout Plan, section and elevations of a residential project Flooring layout, electrical plan, false ceiling plan, service plan, Perspective views Preparation of material board, estimation and Model Unit IIV A corking drawing of a residential building has to be prepared showing all necessary details. A center line drawing has to be prepared for a typical residential building. An approval drawing of a residential building to be prepared with all necessary details. Unit IV A center line drawing has to be prepared for a typical residential building. An electrical service drawing to be prepared for a typical residential building. An electrical service drawing to be prepared for a typical residential building. Storm water drainage along with rainwater harvesting details are to be showr for a residential building. Reference and Text books • Introduction to Home Furnishings- Stepat, D.D- The Mac Millan Co, New York,(1971), • Contemporary Decorating- Wilhide, E and Copestick, I- Conron octopus Ltd, London (2000) • Textbook of Home Science- Mullick.P- Kalyani publishers, Jodhpur, (2001) • BONSAI – The Art of Growing Miniature Trees- Dey, S.C- Agrobios (India) publishers, Jodhpur, (2001) <th>Unit I</th> <th>Residential spa Developing the solutions for re</th> <th>ace planning with respect to physical, e plan as per the design brief. Develop sidential buildings</th> <th>social oping scl</th> <th>& psychologi hematic spac</th> <th>ical needs. e planning</th>	Unit I	Residential spa Developing the solutions for re	ace planning with respect to physical, e plan as per the design brief. Develop sidential buildings	social oping scl	& psychologi hematic spac	ical needs. e planning	
Unit III Preparation of Furniture layout Plan, section and elevations of a residential project Unit III Flooring layout, electrical plan, false ceiling plan, service plan, Perspective views Preparation of material board, estimation and Model A working drawing of a residential building has to be prepared showing all necessary details. Unit IV A center line drawing has to be prepared for a typical residential building in the context of marking. An approval drawing of a residential building to be prepared with all necessary details. Service drawing- A drainage service drawing to be prepared for a typical residential building. An electrical service drawing to be prepared for a typical residential building. A water supply service drawing to be prepared for a typical residential building. A water supply service drawing to be prepared for a typical residential building. Storm water drainage along with rainwater harvesting details are to be showr for a residential building. Reference and Text books • Introduction to Home Furnishings- Stepat, D.D- The Mac Millan Co, New York,(1971), • Contemporary Decorating- Wilhide, E and Copestick, I- Conron octopus Ltd, London (2000) • Textbook of Home Science- Mullick.P- Kalyani publishers, New, Delhi(2000) • Gardening with Containers- Carter, G Ryland peters and small, London,(1997) • BONSAI – The Art of Growing Miniature Trees- Dey, S.C- Agrobios (India) publishers, Jodhpur. (2001) • House Plant Style- Conder, S- Michael o' mara Books limited, London, (1993) • Dried Flower Arranging- Lawrence, M- Anaya publishers, London, (1994)	Unit II	To get acquain Learn and unde curriculum and knowledge as r Preparing conce principles of de	ted with the basic interior design concept erstand the gap between the technological the actual industrial need and to compe- required. ept drawings & Mood boards, make free esign effectively. Preparing Bubble Diag	ts relate al know nsate it chand sh grams	ed to the Inter ledge acquire by acquiring ketches use el	ior Business. d through additional ements and	
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Dried Flower Arranging- Lawrence, M- Anaya publishers, London, (1994) Web Resources https://www.scribd.com/document/555070829/Residential-Interior-Design-A-Guide-to-Planning-Spaces https://www.perlego.com/book/2065884/the-interior-design-reference-specification-book-updated-revised-everything-interior-designers-need-to-know-every-day-pdf https://pdfcoffee.com/time-saver-standards-interior-design-7-0	House F	Plant Style- Con	ler, S- Michael o' mara Books limited I	ondon	(1993)		
Web Resources <u>https://www.scribd.com/document/555070829/Residential-Interior-Design-A-Guide-to-Planning-Spaces</u> <u>https://www.perlego.com/book/2065884/the-interior-design-reference-specification-book-updated-revised-everything-interior-designers-need-to-know-every-day-pdf</u> <u>https://pdfcoffee.com/time-saver-standards-interior-design-4-pdf-free.html</u> <u>https://eastridgedesin.com/pdf/interior-design-master-class.pdf</u>	Dried F	lower Arranging	z- Lawrence. M- Anava publishers Long	lon. (19	94)		
https://www.scribd.com/document/555070829/Residential-Interior-Design-A-Guide-to-Planning- Spaces https://www.perlego.com/book/2065884/the-interior-design-reference-specification-book- updated-revised-everything-interior-designers-need-to-know-every-day-pdf https://pdfcoffee.com/time-saver-standards-interior-design-4-pdf-free.html https://eastridgedesin.com/pdf/interior-design-master-class.pdf	Web Resources	5	,, puononero, Loia	, (1)	- • /		
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	Course Outcomes	Knowledge Level
CO1	Produce residential space layouts with skill, considering physical, social, and psychological concerns while sticking to design briefs.	K6
CO2	Interpreting interior design concepts, bridging the gap between schooling and industry expectations, and excelling at concept generating, sketching, and diagramming are all skills required.	K4
CO3	Produce detailed interior design plans, views, material boards, estimates, and models for residential projects.	K6
CO4	Skill to develop detailed working, center line, and approval drawings for residential projects.	K6
CO5	Produce service drawings for residential structures that include drainage, electricity, water supply, and stormwater management.	K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	-	1(L)	2(M)	1(L)	-	-	-	2(M)	-	2(M)
CO2	1(L)	-	2(M)	-	-	1(L)	1(L)	2(M)	-	1(L)
CO3	1(L)	-	3(S)	1(L)	-	1(L)	-	2(M)	-	1(L)
CO4	-	-	3(s)	2(M)	-	2(M)	-	3(S)	-	1(L)
CO5	-	-	2(M)	1(L)	1(L)	1(L)	-	2(M)	-	1(L)
W. AV	0.4	0.2	2.4	1	0.2	1	0.2	2.2	0	1.2

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	2(M)	1(L)	-	1(L)
CO2	-	3(S)	-	-	2(M)
CO3	1(L)	3(S)	-	-	1(L)
CO4	-	3(S)	1(L)	-	2(M)
CO5	-	3(S)	1(L)	-	1(L)
W. AV	0.2	2.8	0.6	0	1.4

СС	100221	Building services	Т	Credits - 4	Hours - 5			
Objectives	 Master electrical installations, symbols, and layout planning for various building types. Understand mechanical services like elevators, escalators, and air conditioning systems. Optimize lighting, ventilation, and acoustics for building comfort and functionality. Ensure fire protection with precautions, fire-resistant materials, and firefighting systems. Explore renewable energy sources and their advantages, such as biomass, and learn about acoustics and sound insulation principles for better building environments. storm water management in residential projects. 							
Unit I	Electrical Ser Installations– invertors, eme Installations a residence, sm	vices- Electrical Services: Convention Various systems of wiring –Electrical ergency lamps. Electrical Layout: Plan nd distribution- Preparation of Electric all work shop, show room, school buil	al syn meter ning c cal lay ding e	nbols for ele rs – Use of g of Electrical yout for a sm etc – Estimat	ctrical generators, nall tion of load.			
Unit II	Mechanical S — Different t Advantages o Air Condition Types of Air (ervices - Mechanical Services: Lifts – ypes of Elevators Escalators –Location f Escalators. ing: Definition – Purpose – Principles Conditioners – Central type – Window	Defin ns and – Ter 7 Type	ition – Loca Functions – nperature co e – Split unit	tion – Sizes - ontrol –			
Unit III	Lighting and Requirements of good lighti Reflection fac buildings – Ex Necessity of a Illumination – Remedial mea Ventilation: I Factors to be air changes, Advantages Mechanical V	Lighting and Ventilation - Lighting: Natural and Artificial Lighting – Requirements of good lighting – Day light factors – Day light Penetration – Aims of good lighting – General Principles of openings to afford good lighting – Reflection factors –Illumination – Units of measurement– Orientation of buildings – External reflected component – Internal reflected component – Necessity of artificial lighting - Arrangement of luminaries – Distribution of Illumination – Utilization factor – Temperature rise due to artificial lighting – Remedial measures. Ventilation: Definition – Necessity – Types – Natural / Mechanical Ventilation– Factors to be considered in the design of Ventilation – respiration, vitiation of air, air changes, heat balance of body -General rules for Natural ventilation – Advantages and Disadvantages of Mechanical Ventilation – Methods of Mechanical Ventilation – Combined Systems						
Unit IV	Fire Protectio Measures – Fa of fire resistin Fire protection distance – Ho lifts, external Fire detection per NBC – F	n - Fire Protection: Causes and Effects actors to be considered for limiting fire og materials – General requirements fo n systems – Fire exits – General requir rizontal exit, roof exit, fire stairs Intelligent Architecture and Fire and alarm systems – Fire fighting Ins- ire fighting in multistoried buildings	s of fin e sprea r fire r remen e Fight tallatio	e – Precauti ad area – Ch resisting bui ts – maximu ting: Smart r ons – require	onary aracteristics ldings – um travel naterials – ements as			

Unit V	Renewable Energy Sources - Renewable Energy Sources: Introduction – Merits of renewable energies – Sources – Bio mass energy – Advantage over fossil fuels – Wood heating. Acoustics And Sound Insulations: Acoustics of Buildings – Characteristics of Sound – Behavior of sound and its effects Requirements of good Acoustics – Principles and factors to be considered in acoustical designs – Sound absorbent
Reference and	Text books
• Buildin Construction R	g Services Handbook, Fourth Edition: Incorporating Current Building and egulations (Building Services Handbook)- Fred Hall; Roger Greeno
• Buildin	g Services Design Methodology- David Bownass- Taylor & Francis; 1 edition
(2001)	
• Buildin	g Services Handbook- Fred Hall, Roger Greeno- Butterworth-Heinemann (2001)
• Buildin	g Services Engineering- DavChadderton- Routledge; (2007)
• Advanc	ed Constructions Technology- Eric Fleming- Blackwell Pub (2009)
• Fire and	d Human Behaviours- David Guntee- John Willy and Sons
Web Resource	ć
https://www.sl	ideshare.net/PrashantMalagi/electrical-services-design-ppt-pdf
https://www.ai	ktc.ac.in/wp-content/uploads/2019/05/VERTICAL-TRANSPORT.pdf
https://sist.sath	yabama.ac.in/sist_coursematerial/uploads/SDE2302.pdf
https://www.iit	mandi.ac.in/research/amrc/fire_safety.pdf
https://www.sl	deshare.net/mickeyjai/architectural-acoustic-notes

	Course Outcomes	Knowledge Level
CO1	Analyze symbols, create electrical layouts, and estimate loads for various home and commercial situations.	K4
CO2	comprehension of mechanical services such as lifts, escalators, and air conditioning systems.	K2
CO3	Gain an in-depth overview of lighting and ventilation concepts, design issues, and architectural applications.	K2
CO4	Understand the fundamentals of fire protection, including fire prevention, building materials, safety systems, and firefighting procedures.	K2
CO5	Remember renewable energy sources, acoustic concepts, and sound insulation in order to construct a sustainable and acoustic environment.	K1

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1(L)	-	3(S)	2(M)	1(L)	1(L)	2(M)	2(M)	-	1(L)
CO2	-	1(L)	-	2(M)	1(L)	-	2(M)	-	-	1(L)
CO3	2(M)	1(L)	-	1(L)	1(L)	-	2(M)	1(L)	-	-
CO4	-	-	-	1(L)	1(L)	1(L)	1(L)	-	1(L)	-
CO5	1(L)	1(L)	-	2(M)	1(L)	2(M)	3(S)	-	2(M)	-
W. AV	0.8	0.6	0.6	1.6	1	0.8	2	0.6	0.6	0.4

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	2(M)	-	1(L)	1(L)
CO2	-	-	1(L)	2(M)	1(L)
CO3	-	-	-	2(M)	1(L)
CO4	-	-	1(L)	-	1(L)
CO5	1(L)	-	2	1(L)	-
W. AV	0.2	0.4	0.8	1.2	0.8

СС	100222	Professional practice & Estimation	Т	Credits -4	Hours - 5					
Objectives	 Master professional practice for successful interior design projects, including tendering and contract management. Understand various contract types and their advantages, disadvantages, and legal considerations. Develop estimation and specification skills for accurate project planning. Learn to prepare Bills of Quantities (BoQ) and their dependencies. Gain expertise in project detailing and execution, with a focus on restaurant design concepts, layouts, services, lighting, and aesthetics. 									
Unit I	Professional Pr to be followed Tender and Cou – Tender docur Various forms aspects Comple disadvantages of	Professional Practice. Learn the process of putting together professional practice to be followed for successful completion of an interior design project. Tender and Contract -Invitation of tender – Condition of tender – Types of tender – Tender documents – Scrutiny and acceptance of tender – Work order. Various forms of contracts – Agreements – Conditions of contract – Legal aspects Completion period – Maintenance period – Advantages and disadvantages of various types of contracts								
Unit II	Estimation & S general condition	pecifications for Interior projects. Estions. Hands-on estimating with quantity	mati y tak	ing problem-s e-off, pricing	olving in					
Unit III	Preparing Bill referred to as quantity survey of work ider documentation volume, weigh respective depe	of Quantities. Learn to prepare the b 'BoQ') is a document prepared by t yor) that provides project specific mean tified by the drawings and spectrum of the quantities measuring technique at or time. Requirements of preparing endencies.	ill o he o sure cific s e.g ng a	of quantities (cost consultar d quantities o cations in t g. number, le bill of quan	sometimes nt (often a of the items he tender ngth, area, ntities and					
Unit IV	Specification Writing - Specifications as part of contract document, definition, need and importance, its relationship with working drawings, bill of quantities and schedule of rates. Types of specifications, open, closed, restricted, prescriptive, performance based, or combination of above types. Use of manufacturers guide etc Specification writing method to include master list, sectional formats, page formats, general material items, tests, performance, mode of measurements etc. Methodology of writing detailed specifications including methods and forms of writing descriptive notes on materials and workmanship based on working drawings. Project Detailing & Execution: Learn the basics of detailing an interior design project and identifying dependencies for execution.									
Unit V	Restaurant Des designing a res • Restaurant pl • Planning serv • Lighting &A	ign Project: A project specifically desi taurant including the following concep anning layouts vices esthetics	gneo ots.	d to learn the	practice of					

Reference and Text books

- Specification Writing for Architects and Engineers- Donald A.Watson- McGraw-Hill Inc., US (1964)
- Professional Practice (Estimation & Valuation)- Roshan Namavati- Lakha-ni Book Depot
- Architectural Detailing in Residential Interiors- Roshan Namavati- Lakhani Book Depot
- A Guide to Business Principle and Practices for Interior Designers- Harry Siegel, CPA, Alan Sigel- Whitney library of Design
- Professional Practice in Interior Design- Christine M Pitrowski- Van Nostrand Reinhold

Web Resources

<u>https://www.sevenmentor.com/estimation-in-interior-design</u> <u>https://issuu.com/hannahoppelt/docs/hannahoppelt_booklet1</u> <u>https://www.studocu.com/in/document/bharathiar-university/interior-design/estimation-costing-</u>

https://www.studocu.com/in/document/bharathiar-university/interior-design/estimation-costingbsc-interior-design-2nd-year-lecture-notes-for-reference/23693710

http://nsmarjiwe.blogspot.com/2012/10/estimation-in-interior-designing.html

	Course Outcomes	Knowledge Level
CO1	Understand professional practice, tendering, and contract procedures, assuring project completion with legal conformity.	K2
CO2	Competent in estimating and specifying interior projects, demonstrating problem-solving abilities in quantity take-off and price.	К3
CO3	Ability to create a full Bill of Quantities, providing precise project cost prediction.	К6
CO4	Professionallywrite specifications, create detailed project plans, and identify execution dependencies for interior design projects.	K6
CO5	Represent expertise in restaurant design, including layouts, service planning, lighting, and aesthetics.	К3

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	-	1(L)	2(M)	-	-	1(L)	-	-	-	-
CO2	-	-	1(L)	-	-	2(M)	-	-	-	1(L)
CO3	1(L)	1(L)	1(L)	1(L)	-	3(S)	-	3(S)	-	2(M)
CO4	-	-	2(M)	1(L)	1(L)	2(M)	2(M)	1(L)	-	1(L)
CO5	1(L)	2(M)	2(M)	2(M)	1(L)	2(M)	3(S)	1(L)	1(L)	2(M)
W. AV	0.4	0.8	1.6	0.8	0.4	2	1	1	0.2	1.2

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1(L)	-	-	-	2(M)
CO2	-	1(L)	1(L)	-	1(L)
CO3	-	1(L)	-	-	3(S)
CO4	1(L)	1(L)	1(L)	-	2(M)
CO5	1(L)	3(S)	1(L)	1(L)	2(M)
W. AV	0.6	1.2	0.6	0.2	2

CC	100223	Office Design	Р	Credits -	Hours -						
Objectives	 Master office workstation types and space planning principles. Learn about office furniture, including partitions, tables, chairs, and storage. Understand the role of lighting, air conditioning, and equipment in office design. Apply design concepts to create practical office space solutions. Demonstrate design proficiency through a project with comprehensive documentation and research 										
Unit I	Office / work station types & space planning. Learning various workstations and their use cases. Understanding the relationship between shapes and how they affect design. A study and application of the design process from programming through presentations to working drawings based upon client needs and applicable commercial spaces										
Unit II	Office furniture units. Study var cabinates and s	e – partitions, workspace table, c rious types of partitions, workspa torage units.	hair, fil ace tabl	ing cabinets les, chairs, fi	& storage ling						
Unit III	Lighting, Air conditioning an	conditioning & Equipment. ad respective equipment	Identif	y use of 1	ighting, air						
Unit IV	Individual projo will be provide	ect (Practical) Design an office s d.	pace –	Areas & des	ign brief						
Unit V	Project Docum	entation, Presentation & Researc	h repoi	rt.							
Reference and	l Text books										
BuildirConstruct	 Building construction Illustrated; Francis D.K. Ching Construction drawings and details for interiors; Basic skills, Rosemary Kilm 										
Web Resourc https://www.ko https://bharats https://www.ao https://www.uo https://www.oo	es eyinteriors.us/do kills.gov.in/pdf/E cademia.edu/362 ou.ac.in/sites/def si.biz/wp-conten	wnload-modern-office-design-po E_Books/IDD_Volume_II_of_II 18043/Interior_Design_Handboo Gault/files/slm/BHM-602CT.pdf t/uploads/2017/01/OSI_A-Guide	<u>lf/</u> Theor ok_of_l	<u>y.pdf</u> Professional ïce-Space-P	<u>Practice</u> lanning-						

Design.pdf

	Course Outcomes	Knowledge Level
CO1	Design office workstations, apply design processes, and address client needs in commercial spaces.	K6
CO2	Illustrate knowledge of office furniture selection and design, including partitions, tables, seats, cabinets, and storage.	К3
CO3	Determine the role of lighting, air conditioning, and associated equipment in interior design projects.	K2
CO4	Create an office environment based on the specified regions and brief to demonstrate practical design abilities.	К6
CO5	Prepare project documentation, explain design thoughts, and write thorough research reports.	K6

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2(M)	1(L)	1(L)	1(L)	1(L)	-	2(M)	2(M)	-	2(M)
CO2	1(L)	1(L)	1(L)	-	-	2(M)	3(S)	1(L)	-	1(L)
CO3	1(L)	2(M)	1(L)	1(L)	2(M)	-	3(S)	1(L)	1(L)	1(L)
CO4	2(M)	3(S)	1(L)	-	2(M)	1(L)	3(S)	1(L)	-	1(L)
CO5	-	2(M)	2(M)	-	-	1(L)	-	1(L)	-	2(M)
W. AV	1.2	1.8	1.2	0.4	1	0.8	2.2	1.2	0.2	1.4

OUTCOME	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1(L)	2(M)	1(L)	-	2(M)
CO2	1(L)	1(L)	-	1(L)	1(L)
CO3	1(L)	1(L)	1(L)	-	2(M)
CO4	-	1(L)	1(L)	2(M)	2(M)
CO5	1(L)	2(M)	-	-	3(S)
W. AV	0.8	1.4	0.6	0.6	2

CC	100224 Computer Aided Design		Р	Credits - 5	Hours - 10		
Objectives	 Master AutoCAD basics and its user interface. Organize drawings and use drawing tools effectively. Add annotations, text, and dimensions with precision, handle plotting, layouts, and viewports proficiently Master 3ds Max for 3D modeling with navigation tools and basic shapes. Explore lighting and camera settings for creating realistic 3D scenes and Understand material types, rendering techniques, and post- processing 						
Unit I	Workspace, User Interface & Basic Tools: Study the User Interface of AutoCAD. Working with Commands. Cartesian Workspace – Precision input. Opening an Existing Drawing File. Viewing/Saving Drawing.						
Unit II	Using Drawing, editing & viewing tools. Organizing and getting information from drawing objects. Organising and creating drawing						
Unit III	Drawing objects, layers, blocks & line weights. Organizing Your Drawing with Layers, What are Layers? Layer States, Transparency, Changing an Object's Layer. Drawing Lines, rectangles, circles, polygons, ellipses. Using Running Object Snaps. Using Object Snap Overrides. Polar Tracking and Polar Snap. Object Snap Tracking. Grid Mode. Erasing Objects. Undo and Redo Actions.						
Unit IV	Creative Tools - Menu bar, Com navigation tools Grids – Basic pr Customize – Un Rectangle & Sta	Introduction to 3ds Max – User In mand panel, View port, tab panel, . Time Controls & Time Slider – V imitives – Box, sphere, cylinder, t it setup – Shapes and extrude–Lin r – Selection and Customization –	nter roll View ube e, T - Co	face – Main t out, View po v port control , pyramid & j ext, Arc, Ciro mpound obje	ool bar, ort I–Snaps and plane. cle, ects		
Unit V	Modifying Tools, Parametric modifiers – Deformers – AEC extended objects – Doors, Windows, Stairs & Handrails. Lighting And Cameras - Lights and Parameters – General parameters Cameras and parameters – Variables – Map, Background and Environmental settings. Material Applications and Rendering Techniques - Materials – Basic and Standards Advanced Lighting–Rendering image. Animation–Walkthrough–Creating a movie file– Export and Import options.						

Reference and Text books

- Auto Cad 2021 fundamentals, Elise Moss
- AutoCAD 2022 for beginners, CAD folks
- Mastering AutoCAD 2021 and AutoCAD LT 2021, Brain C. Bento
- Introducing 3ds Max 9: 3D for Beginners, Dariush Derakhshani, Randi Lorene Munn, Jon McFarland- Sybex (2007)
- 3ds Max 9 Bible- Kelly L. Murdock- Wiley; (2007)
- 3D Studio MAX: Tutorials from the Masters- Michele Bousquet- Delmar Cengage Learning; (1996)
- 3ds Max 9 Essentials: Autodesk Media and Entertainment Courseware- Autodesk- Focal Press (2006)

Web Resources

https://lnct.ac.in/wp-content/uploads/2020/03/AutoCAD.pdf https://www.thesourcecad.com/autocad-commands-pdf/ https://jamiesjewels.typepad.com/3dsmaxshortcut_3dWorld.pdf https://pt.scribd.com/document/367156737/80884139-3Ds-Max-Keyboard-shortcuts-pdf

	Course Outcomes	Knowledge Level		
CO1	Competent to navigate AutoCAD's user interface, utilize commands efficiently, and alter drawings with precision and expertise.	К2		
CO2	Apply drawing, editing, and viewing tools proficiently to organize, generate, and retrieve information from drawings.	К3		
CO3	Creating and modify exact drawings, utilize AutoCAD's drawing tools, layers, and object manipulation functions expertly.	К6		
CO4	Develop the use of 3ds Max's creative tools, interface, navigation, and object manipulation.	K6		
CO5	Understand 3ds Max's modifying tools, parametric modifiers, selection modifiers, and numerous deformers.	К2		

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	-	-	3(S)	-	-	2(M)	1(L)	3(S)	-	1(L)
CO2	-	1(L)	3(S)	1(L)	-	-	-	2(M)	-	1(L)
CO3	1(L)	-	3(S)	1(L)	1(L)	1(L)	-	2(M)	-	1(L)
CO4	-	-	3(S)	-	-	2(M)	-	2(M)	-	2(M)
CO5	-	-	3(S)	-	-	2(M)	-	3(S)	-	2(M)
W. AV	0.2	0.2	3	0.4	0.2	1.4	0.2	2.4	0	1.4

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1(L)	3(S)	-	-	2(M)
CO2	-	3(S)	-	-	1(L)
CO3	1(L)	3(S)	1(L)	-	2(M)
CO4	1(L)	3(S)	-	-	2(M)
CO5	1(L)	3(S)	1(L)	1(L)	2(M)
W. AV	0.8	3	0.4	0.2	1.8