



**THIRUVALLUVAR UNIVERSITY
SERKKADU, VELLORE-632115**

M. SC ., Interior Design and Decor

SYLLABUS

**FROM THE ACADEMIC YEAR
2023 – 2024**

INTRODUCTION

Home Science is both multidisciplinary and interdisciplinary in its context encompassing five major disciplines which includes Family Resource Management, Foods and Nutrition, Textiles and Clothing, Human Development, and Extension Education. Each discipline has one or more specific areas of specialization. Each specialization under Home Science offers a wide array of courses that prepare students for employment or setting up an enterprise in a wide range of sectors such as healthcare, childcare, food and hospitality, textiles, home and office interiors. Further, all courses of the programme are designed to improve the lifestyle of the individual, family and society that could most certainly contribute to the holistic development of the community.

The course curriculum for this programme has been planned to improve the employability potential and increase the scope for higher education. Globalization has created a market for jobs with different skills in the areas of food and healthcare industries and can thus contribute to the professional growth of students enrolled in this programme. This programme facilitates action-based research in various fields with the advantage of nurturing critical and analytical thinking that pave the way for innovation and entrepreneurship.

The interior design profession plays a crucial role in shaping our built environment and enhancing the quality of our lives. Interior designers have the expertise to optimize the functionality and usability of interior spaces. Well-designed interiors have a direct impact on our well-being and quality of life. Interior designers consider aspects such as ergonomics, acoustics, and lighting to create spaces that promote comfort, productivity, and a sense of well-being. With a growing focus on sustainable design practices, interior designers are playing a vital role in incorporating eco-friendly materials, energy-efficient systems, and sustainable strategies into their projects. In commercial spaces, interior design helps businesses create a unique brand identity and provide memorable experiences for their customers. Interior designers often collaborate with architects, contractors, and other professionals to ensure the seamless execution of

a project. Overall, the interior design profession contributes significantly to the functional, aesthetic and experiential aspects of our built environment, making it an essential discipline in shaping the spaces we live, work, and interact in.

PROGRAMME OBJECTIVE (POB) OF PG DEGREE PROGRAMME

The M.Sc. Programme in Interior Design & Decor aims to achieve the following objectives:	
POB1	Develop ability to apply design principles in day-to-day life and expose students to the various developments seen in art and design industries.
POB2	Acquire the ability and behavioral skills required for successful social adaptation, that enables students to work in groups, apply knowledge and ideas effectively both verbally and in writing.
POB3	Train students with appropriate skills required to adapt easily to the ever-changing global scenario and gain access to suitable career opportunities.
POB4	Improve skills in observation and drawing logical inferences from space planning.
POB5	Explore various mediums and technologies to express their creativity and understand the role of art making in the larger social context.

1. PROGRAMME OUTCOMES (PO) OF PG DEGREE PROGRAMME

On successful completion of M.Sc. Interior Design & Décor the student is expected to :	
PO1	Develop designs for both residential and commercial spaces by applying the concept of art and interior design with suitable building materials and which create a sustainable environment.
PO2	Assess and analyze the art principles and colour theories that are most suitable and applicable to surface finishes.
PO3	Design and develop 2D and 3D floor plans, building system, kitchen and furniture arrangements using ergonomic principles
PO4	Formulate hypotheses and thus find solutions for research problems.
PO5	Cultivate professional skills to be inducted in the field of interior design and décor.

2. PROGRAMME SPECIFIC OUTCOMES (PSO) OF PG DEGREE PROGRAMME

On successful completion of M.Sc. degree in Interior Design & Decor the student is expected to:	
PSO1	Implement the concepts of design elements, art principles, color and lighting theories in planning interiors and exteriors with optimum use of resources in building services.
PSO2	Evaluate the characteristics of various hard & soft materials and finishes in planning residential and commercial spaces and in turn providing eco-friendly environment to meet the community needs.
PSO3	Analyze the various styles of interiors from historical period till modern days to create an aesthetic and ergonomic design in planning furniture, interior and exterior spaces.
PSO4	Implement the skills of communication, graphic design, various perspectives of home science and professional practice to develop new research ideas and meet the consumer requirements with effective use of resources.
PSO5	Demonstrate designs and plans effectively to the clients using various software, apps and technology and possess entrepreneurial skills and competencies.
PSO6	Develop research ideas in creating aesthetic and sustainable buildings with efficient use of renewable resources for that are eco-friendly.

Template for P.G., Programmes

Semester-I	Credit	Hours	Semester-II	Credit	Hours
Core-I HISTORY OF DESIGN	5	7	Core-IV SUSTAINABILITY IN BUILDING SCIENCE	5	6
Core-II APPLICATION OF ART & DESIGN	5	7	Core-V TEXTILE SCIENCE	5	6
Core – III SPACE PLANNING (Practical)	4	6	Core – VI FURNISHING IN INTERIORS (Practical)	4	6
Elective -I Discipline Centric FURNITURE DESIGN	3	5	Elective – III Discipline Centric RESEARCH METHODOLOGY AND STATISTICS	3	4
Elective-II Generic: LANDSCAPING & ORNAMENTAL GARDENING	3	5	Elective -IV Generic: ADVANCED GRAPHIC DESIGN	3	4
			Skill Enhancement I FURNITURE ARRANGEMENT	2	4
	20	30		22	30

Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credits and Hours Distribution System for all Post – Graduate Courses including Lab Hours

First Year – Semester – I

Part	List of Courses	Credits	No. of Hours
	Core – I HISTORY OF DESIGN	5	7
	Core – II APPLICATION OF ART & DESIGN	5	7
	Core – III SPACE PLANNING (Practical)	4	6
	Elective – I FURNITURE DESIGN	3	5
	Elective – II LANDSCAPING & ORNAMENTAL GARDENING	3	5
		20	30

First Year – Semester-II

Part	List of Courses	Credits	No. of Hours
	Core – IV SUSTAINABILITY IN BUILDING SCIENCE	5	6
	Core – V TEXTILE SCIENCE	5	6
	Core – VI FURNISHINGS IN INTERIORS (Practical)	4	6
	Elective – III RESEARCH METHODOLOGY AND STATISTICS	3	4
	Elective – IV ADVANCED GRAPHIC DESIGN	3	4
	Skill Enhancement Course [SEC] – I FURNITURE ARRANGEMENT	2	4
		22	30

M.Sc. Interior Design & Decor

First Year

3. CONSOLIDATED TABLE FOR CREDITS DISTRIBUTION

	Category of Courses	Credits for each Course	Number of Courses	Number of Credits in each Category of Courses	Total Credits	Total Credits for the Programme
PART A	Core					80 (CGPA)
	Project with viva voce					
	Industry aligned Programmes-					
	Elective (Generic and Discipline Centric)					
PART B (i)	Skill Enhancement (Term paper and Seminar & Generic / Discipline - Centric Skill Courses) (Internal Assessment Only)					
PART B (ii)	Ability Enhancement (Soft skill)					11 (Non CGPA)
PART B (iii)	Summer Internship					
PART C	Extension Activity					
						91

M.Sc. Interior Design & Decor

	First Year Semester-I	Credit	Hours per week
Core-I	History of Design	5	7
Core-II	Application of Art and Design	5	7
Core – III	Space Planning Practical	4	6
Discipline Centric Elective -I	(Generic / Discipline Specific) (One from Group A) EC1 Furniture Design	3	5
Generic Elective-II:	Elective II (Generic / Discipline Specific) (One from Group B) EC2 Landscaping & Ornamental Gardening	3	5
	Total	20	30

Semester-II

		Credit	Hours per week
Core-IV	Sustainability in Building Science	5	6
Core-V	Textile Science	5	6
Core – VI	Furnishing in Interiors Practical	4	6
Discipline Centric Elective – III	Elective III (Generic / Discipline Specific) (One from Group C) EC3 Research Methodology and Statistics	3	4
Generic Elective – IV	Elective-IV (Computer / IT related) (One from Group D) EC4 Advanced Graphic Design	3	4
Skill Enhancement Course [SEC] - I	Skill Enhancement Course -SEC 1 (One from Group G) Furniture Arrangement	2	4
	Total	22	30

Consolidated Table for Credits Distribution

	Category of Courses	Credits for each Course	Number of Courses	Number of Credits in each Category of Courses	Total Credits	Total Credits for the Programme
PART A	Core	4	12	48	72	80 (CGPA)
	Project with viva voce	3	1	3		
	Industry aligned Programmes-	3	1	3		
	Elective (Generic and Discipline Centric)	3	6	18		
PART B (i)	Skill Enhancement (Term paper and Seminar & Generic / Discipline - Centric Skill Courses) (Internal Assessment Only)	2	4	8	8	
PART B (ii)	Ability Enhancement (Soft skill)	2	4	8	10	11 (Non CGPA)
	Summer Internship	1	2	2		
PART C	Extension Activity	1	1	1	1	
						91

Semester

Code	Category	Title of the Paper	Marks (Max 100)		Duration for UE	Credits
			CIA	UE		
Semester –I						
Part A	Core I	History of Design	25	75	3 Hrs	4
	Core II	Application of Art and Design	25	75	3 Hrs	4
	Core III	Space Planning Practical	25	75	3 Hrs	4
	Elective I	Elective-I Furniture Design	25	75	3 Hrs	3
	Elective II	Elective-I I Landscaping & Ornamental Gardening	25	75	3 Hrs	3
Semester-II						
Part A	Core IV	Sustainability in Building Science	25	75	3 Hrs	4
	Core V	Textile Science	25	75	3 Hrs	4
	Core VI	Furnishing in Interiors Practical	25	75	3 Hrs	4
	Elective III	Elective-III Research Methodology	25	75	3 Hrs	3
	Elective IV	Elective-IV Advanced Graphic Design	25	75	3 Hrs	3
Part B	Skill Enhancement Course -SEC 1	Furniture Arrangement	Internal Assessment			2

11.4 Instructions for Course Transaction

Courses	Lecture hrs	Tutorial hrs	Lab Practice	Total hrs
Core	75	15	--	90
Electives	75	15	--	90
ED	75	15	--	90
Lab Practice Courses	45	15	30	90
Project	20	--	70	90

**SEMESTER I
CORE I
CC1 - HISTORY OF DESIGN**

**Time/Hrs: Theory: 7 Hrs
Credits: 5**

**Year: I
Semester: I**

LEARNING OBJECTIVES

To enable the students to

1. Understand the history of art and architecture.
2. Analyze the historical styles of architecture.
3. Create styles and designs based on the materials and design used in different periods.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Understand the architectural features of prehistoric & Egyptian period	K2
CO2	Analyze the different European styles of architecture	K4
CO3	Interpret the colonial and oriental influence in interiors	K3
CO4	Compose modern architecture based on the Indian historical features	K6
CO5	Illustrate the modern and post-modern styles of interiors	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	Prehistoric & Egyptian interiors - Plan, Materials, Furniture Ornamentation & Accessories Used for Shelters in Stone Age – Cave paintings, Parts & Plan of Stonehenge & Egypt - symbolism, characteristic features of Obelisks, Pyramids, Egyptian paintings - Egyptian dance & battle of Nubia.	15
UNIT II	European Interiors- Categorization of Rooms, Furniture, Materials Used for Buildings in Greece & Rome- Orders, Parthenon, Pantheon & Colosseum, Medieval - Pantheon, Late Renaissance- St. Peter’s Basilica, Laurentian Library, Baroque- St. peter’s Basilica and Rococo Architecture - Ballroom in the Schaezlerpalais.	25
UNIT III	Oriental and Colonial interiors - Types of Materials used, Parts of the Building, Furniture and other Interior Aspects of Buildings in Japanese- wood, roofs, shoji & fusuma, Tatami, Engawa, Genkan, Nature inspired. Chinese- Lumber, Low Rise, Roof, Colours, Symmetrical Layouts, Hierarchical Layout, South Facing, Consistency, and Indian Colonial Architecture - Victorian Memorial Hall, Secretariat in Delhi, Madras High Court.	25
UNIT IV	Indian interiors - Historical Perspectives, Architectural Styles and Contemporary Trend in Furniture, Space Allocation, Local Material Usage and Furniture Used in Rajasthan - Amber Palace, Gujarat- Rajmahal at Mehsana, Chettinad - Karaikudi houses, Kerala - The Mattancherry Palace and Pondicherry - White town Architecture.	20
UNIT V	Modern & Post-Modern interiors- The Style Statements of Modern Periods - Art Nouveau- Casa Battlo, Art Deco- Chrysler Building, Eclecticism- Carson Mansion, High Tech - Lloyd’s Building, Minimalism- Heydar Aliyev Center, Deconstructivism - Walt Disney Concert Hall.	20
Total		105

REFERENCES

1. Vedula VLN Murthy (2020). ARCHITECTURE PRE-HISTORIC TO PRE-GOTHIC - WEST ASIA, MEDITERRANEAN AND EUROPE, Standard Publishers and Distributors Pvt Ltd
2. R. Engelbach, Somers Clarke(2014), Ancient Egyptian Construction and Architecture, Dover Publications Inc.
3. WimPauwels (2012), Contemporary Architecture & Interiors.
4. John Wiley & sons.Inc (2013), A history of interior design – 4th edn.
5. Robbie.G. Blakemore, (2005), History of Interior Design and Furniture. From Ancient Egypt to Nineteenth – Century Europe, Wiley Publishers
6. John Potvin (2015), Oriental Interiors: Design, Identity & Space, Bloomsbury Academic Publishers

E-LEARNING RESOURCES

- www.thoughtco.com/architecture-timeline-historic-periods-styles-175996
- <https://www.britannica.com/art/Egyptian-architecture>
- <https://www.e-architect.com/european-architecture>
- <http://www.thebangala.com/architecture>
- <https://www.toki.tokyo/blogt/2020/4/8/eight-elements-of-japanese-architecture>
- <https://www.chinahighlights.com/travelguide/architecture/>
- <https://www.chinahighlights.com/travelguide/architecture/features.htm>
- <https://www.houzz.in/magazine/what-is-kerala-architecture-stsetivw-vs~116858736>

MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	S	S	S	W	M	M
CO2	M	S	S	W	M	M
CO3	M	S	S	W	M	M
CO4	M	S	S	W	S	M
CO5	M	S	S	M	S	M

CORE II
CC2 - APPLICATION OF ART & DESIGN

Time/Hrs: Theory: 5 Hrs, Practical: 2 Hrs
Credits: 5

Year: I
Semester: I

LEARNING OBJECTIVES

To enable the students to

1. Use design elements and principles of art effectively in designing interiors and exteriors.
2. Analyze and use the appropriate color schemes and lighting fixtures for the interiors and exteriors.
3. Create and implement innovative ideas in developing interior accessories and flower arrangement styles.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Understand and apply the art and design in interiors and exteriors.	K1, K2, K3
CO2	Create innovative flower arrangement styles and apply them in various occasions and needs.	K3, K6
CO3	Develop or schemes using color palette and suggesting them in various areas of interiors and exteriors.	K5, K6
CO4	Apply proper lighting for efficient lighting in interiors and exteriors.	K2, K3, K5
CO5	Understand and apply various accessories and pictures in selection and arrangement with relation to the background of interiors.	K2, K3, K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	<p>Design: Design - Definition, Concept, Requirements of Good Design, Types of Design - Structural and Decorative - Naturalistic, Conventional, Geometric, Abstract. Elements of Design - Line & its Type, Shape and Form, Texture, Direction, Space and Size, Color, Value. Principles of design - Proportion, Balance, Rhythm, Emphasis and Harmony. Application of Design in Interiors and Exterior Wall Finishes.</p>	20
UNIT II	<p>Flower Arrangement: Flower Arrangement - Definition, importance of flower arrangement, Styles of flower arrangement – Traditional, Oriental/Japanese styles - Ikebana, Moribana, Nagarie, Shikibana, Morimono, Rikka, Ukibana and Modern. Selection of containers based upon styles of arrangement. Flowers – Names, its colours, textures and its visual perception in various indoor spaces.</p>	20
UNIT III	<p>Colour: Colour Theory - Additive Colour, Subtractive Colour, Warm & Cool Colors. Developing colour schemes related to colour harmony – Achromatic, Accented, Analogous, Triad and Tetrad. Application of colour psychology and illusion in various areas of interiors and exteriors.</p>	15
UNIT IV	<p>Lighting: Lighting requirements - Definition and Importance of lighting. Ideal light requirements, Lighting Units - foot candle, candela, Lumen, Watt. Types of light bulb - Incandescent lamps, Compact fluorescent lamps (CFL), Halogen lamps, Metal halide Lamps, Light Emitting Diode (LED),. Types of lighting - General/ Ambient lighting, Task/Spot lighting, Architectural lighting - valance, soffit, bracket, cone, recessed, cornice.</p> <p>Lighting fixtures: Movable and immovable fixtures. Principles of home lighting, Glare - types and causes of glare. Suggestions for improving daylight illumination.</p>	20
UNIT V	<p>Accessories: Definition, Types of accessories, Selection and arrangement of accessories in various areas – living room, Dining room, bed room, study room with application of art principles and elements of design. Pictures – Concept, Selection of pictures, framing and mounting of pictures, Hanging law of margin in picture framing.</p>	15

PRACTICALS	1. Creating hand-made accessories using waste materials and pictures frames in different styles. 2. Painting different rooms using colour psychology and illusion of colours. 3. Developing innovative flower arrangement styles for various occasions and needs. 4. Applying design in interior and exterior wall. 5. Market survey on recent trends in accessories. 6. Draw lighting layout and Market survey on light and lighting fixtures. 7. Prepare catalogue for wall accessories and various designs.	15
Total		105

REFERENCES

1. Andal and Parimalam (2015), "A Textbook of Interior Decoration", Satish Serial Publishing House, ISBN-13: 978-8189304508
2. Frida Ramstedt, (2020), "The Interior Design Handbook", Particular Books, ISBN-13: 978-0241438114
3. Gary Gordon (2015), "Interior Lighting for Designers", Wiley; 5th edition, ISBN-13: 978-0470114223
4. Grimley C and Mimi Love (2018), "The Interior Design Reference & specification Book", Rockport Publishers, ISBN-13: 978-1631593802.
5. Mark Karlen, Christina Spangler, et al (2017), "Lighting Design Basics", Wiley; 3rd edition, ISBN-13: 978-1119312277
6. Nikita Mittal (2021), "The Key of Interior Design (Illustration of Methods & Principles)", STANDARD BOOK HOUSE; 1st edition, ISBN-13: 978-8194359753
7. Pratap Rao. M (2020), "Interior Design: Principles and Practice", Standard Publishers and Distributors Pvt Ltd, ISBN-13: 978-8180141560
8. Seetharaman. P (2019), "Interior Design and Decoration", CBS; 1st edition, ASIN: 8123911920, ISBN-13: 978-8123911922

E-LEARNING RESOURCES

- Stanpro (2018), “Basics of Lighting”, <https://www.standardpro.com/3-basic-types-of-lighting/>
- Greg Batten (2015), “Lighting Control Methods”, <https://www.controlco.com.au/blog/2015/7/16/lighting-control-methods>
- Frankel Building Group (2021), “7 Elements of Interior Design”, <https://www.frankelbuildinggroup.com/resources/7-elements-of-interior-design/>
- Prerna Makhija (2022), “The 7 Elements of Design – and how to use them in your home interiors”, <https://www.beautifulhomes.com/home-decor-ideas/interior-design/the-7-elements-of-design-and-how-to-use-them-in-your-home-interiors.html>
- Foyr (2020), “Importance of Accessories in Interior Design”, <https://foyr.com/learn/accessories-in-interior-design/>
- Hamstech (2021), “Selection of Accessories in Interior Designing”, <https://www.hamstech.com/selection-of-accessories-in-interior-designing>
- Shuani, “Interior Decoration – Arrangement of Flowers”, <https://www.yourarticlelibrary.com/home-management/interior-decoration-arrangement-of-flowers/47903>

MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	S	M	M	M	S	M
CO2	S	M	S	M	M	M
CO3	S	S	M	M	S	M
CO4	S	S	M	M	S	M
CO5	S	S	S	M	M	M

CORE III
CC 3 – SPACE PLANNING (Practical)

Time/Hrs: Practical: 6 Hrs
Credits: 4

Year: I
Semester: I

LEARNING OBJECTIVES

To enable the students to

1. Learn about the requirements in housing and design spaces accordingly.
2. Design commercial spaces suited to the needs.
3. Know the standard dimensions of furniture.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Understand the needs and requirements of planning different spaces in residences. Apply designs to suit the requirements, create residential layouts for different square feet areas.	K2, K3, K6
CO2	Outline the features of art principles. Apply various art principles to furnish a room thereby creating a specific mood.	K2, K3, K6
CO3	Analyze the requirements for designing commercial spaces. Design interiorspaces for various commercial places.	K3, K4, K6
CO4	Apply ergonomics in the design of furniture. Design furniture as per ergonomic standards.	K2, K3, K6
CO5	Categorize built in furniture in accordance to use. Design built in furniture with complete details.	K3, K4, K6

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create

PRACTICALS

UNIT	CONTENT	HOURS
UNIT I	House Plan: Designing a residential space by implementing the principles of planning spaces with aspect, prospect, grouping, privacy, roominess, circulation and flexibility. Types of house plan, planning for different Square foot areas.	20
UNIT II	Residential Interior Spaces: Interior space arrangement like living room, bedroom dining, study and kitchen to achieve different moods – formal, informal, traditional, exotic, romantic, masculine and feminine. Creation of mood boards.	20
UNIT III	Commercial Interior Spaces: Designing commercial interior spaces like cafe, beauty parlor, boutique, kids store, snack bar, kiosk and office layout.	15
UNIT IV	Furniture design: Measured drawings of freestanding furniture, Multi-purpose, Innovative furniture, Door, Window, - Chair, Sofa, Bed, Dining table, Workstation - plan, elevation and view drawn to scale.	15
UNIT V	Storage systems: Functional analysis of storage systems and thereby deriving types of built in cabinets needed for interior spaces – Wardrobe, Kitchen cabinets, Designer shelves, Vanity Mirror, Vanity Storage, Bookshelf, TV wall unit, display systems.	20
Total		90

REFERENCES

1. Christine M. Piotrowski (2016), *Designing Commercial Interiors*, Wiley Publishers
2. James Orrom (2018), *Chair Anatomy: Design and Construction*, Thames and Hudson Publishers
3. Lulu Lytle & Mitchell Owens (2020), *Rattan: A World of Elegance and Charm*, Rizzoli Publishers
4. Mark Karlen & Rob Fleming (2016), *Space Planning Basics*, Wiley Publishers
5. Maureen Mitton & Courtney Nystuen (2016), *Residential Interior Design: A Guide to Planning Spaces*, Wiley Publishers

E-LEARNING RESOURCE

- https://www.academia.edu/8258292/Space_Planning_Basics
- <http://www.aboutcivil.org/site-selection-for-residential-buildings.html>
- https://web.hettich.com/fileadmin/media/company/Das_Ideenbuch_2018_HHW_17785_en.pdf
- <https://catalogimages.wiley.com/images/db/pdf/9781118090787.excerpt.pdf>
- https://cdn2.hubspot.net/hubfs/3360471/RhinoInteriorsGroup_May2018/Docs/Rhino_officeinteriordesign.pdf

MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	S	M	M	M	M	W
CO2	S	M	M	M	M	W
CO3	S	S	M	M	M	W
CO4	M	S	S	M	M	M
CO5	M	S	S	M	M	M

**ELECTIVE COURSE I
EC1 - FURNITURE DESIGN**

**Time/Hrs: Theory: 5 Hrs
Credits: 3**

**Year: I
Semester: I**

LEARNING OBJECTIVES

To enable the students to

1. Understand the basic guidelines of furniture design.
2. Get familiar with the different types of materials used in designing furniture.
3. Learn the styles of popular furniture designers.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Understand the design details of a furniture	K1, K2
CO2	Analyze the designs of popular designers from Medieval to modern period	K1, K2, K4
CO3	Understand the features of various materials used in furniture design.	K2
CO4	Summarize the templates and proportions	K1, K2
CO5	Analyze the methods of cabinet construction and select the best suitable method for the given purpose on hand	K1, K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	<p>Introduction to furniture design Furniture- Meaning and importance, classification, factors influencing furniture decisions – family needs, preferences, availability, principles of design and financial limit. Residential furniture Types: Table, chair, sofa, cabinet, bed, wardrobe, dining table, wall unit. Application of Golden Ratio in furniture design. Art principles in furniture design.</p>	15
UNIT II	<p>Furniture styles i. Traditional/classic style: a. Ethnic style. b. Contemporary style. ii. Types of furniture: a. Daily uses furniture b. Loose carpentry furniture c. Fixed carpentry furniture. d. Multi-utility storage e. Open & closed storage. Importance of anthropometric and ergonomics.</p>	15
UNIT III	<p>Materials Familiar furniture materials – Wood – teak, rose wood, walnut, cedar, mahogany, pine, birch, Sal and Plywood, Bamboo, Cane, Glass, Concrete, Metals, Plastics, and Leathers. Modern materials – wood based panels such as plywood, MDF, HDF, Particle board , pre laminated boards; fiber glass, veneers</p>	15
UNIT IV	<p>Construction of Cabinets Steps involved in cabinet construction, T V units, wall accessories unit & Bedding furniture. Construction features of furniture – shaping, carving, turning, fluting, reeding, joining and finishes. Upholstering designs.</p>	15
UNIT V	<p>Carpentry joint Finishes- Shaping, carving, tapestry, turning, fluting, reeding, joining and finishes joining of furniture. Types of joints i. Butt joint ii. Mitre joint iii. Lap joint iv. Mortise and Tenon joint v. Tongue and groove joint vi. Housed joint vii. Cross joint Joints used in furniture - Joints used in doors/ windows/ ventilators.</p>	15
Total		75

REFERENCES

1. Francis D.K. Ching, John Wiley & Sons, (2018), Interior Design 4th edition, New York.
2. Jeannie Ireland (2009), History of Interior Design, air child publications, illustrated ed.,
3. Jim Postell, (2007), Furniture Design, Wiley publishers.
4. John Wiley & sons (2013), A history of interior design – 4th edn – Inc
5. Lawsun Stuart (2013), Furniture Design- An Introduction to Development, Materials, Manufacturing, Lawrence King Publishing Ltd
6. Postel Jim (2012), Furniture Design, New York

E-LEARNING RESOURCES

- http://homes.ieu.edu.tr/ffd301/INSTRUCTOR%20PRESENTATIONS/FFD301_Presentation01_history_of_furniture.pdf
- <https://catalogimages.wiley.com/images/db/pdf/9781118090787.excerpt.pdf>
- (https://www.google.co.in/books/edition/Illustrated_History_of_Furniture/j8AgAAAAMAAJ?hl=en&gbpv=1)
- <https://koalaliving.com.au/blog/golden-ratio-design-template>

MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	S	M	S	W	S	S
CO2	M	M	S	M	S	S
CO3	W	M	S	M	S	S
CO4	S	M	S	S	S	S
CO5	S	S	S	W	S	S

ELECTIVE II
EC2 - LANDSCAPING & ORNAMENTAL GARDENING

Time/Hrs: Theory: 3 Hrs, Practical: 2 Hrs

Year: I

Credits: 3

Semester: I

LEARNING OBJECTIVES

To enable the students to

1. Acquire skill in identifying the ornamental flowers, shrubs and trees.
2. Develop a conceptual understanding of landscape design principles and gardening components for various built forms.
3. Create designs in integrating landscape and ornamental gardening with built environment.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Apply principles of design to create best suited design in lawn making and landscaping	K2, K3, K6
CO2	Evaluate the integral and supplementary elements to create ornamental garden design	K5, K6
CO3	Assess, understand and evaluate the different styles and kinds of garden.	K2, K5
CO4	Create designs in urban landscape and prepare bio-aesthetic plans for different areas.	K3, K6
CO5	Classify different kinds of indoor and outdoor plants; analyze factors for developing patterns in the landscape area.	K2, K4, K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	Landscaping –Definition, Importance and Principles of Design in Landscaping. Requirements in Landscape Area- Site & Location, Site Evaluation, Soil Properties, Water Systems, Climatic Conditions and Lighting. Lawn and Lawn Maintenance-Planning and Execution of Lawn Making, Public and Private Garden. Importance of Kitchen Garden.	10
UNIT II	Ornamental Gardening -Definition, Components of Garden- Arboretum. Shrubbery, Fernery, Arches and Pergolas, Edges and Hedges. Integral Elements of Garden- Climbers and Creepers, Cacti & Succulents, Herbs, Annuals & Perennials, Flower Borders & Beds. Supplementary Elements of Garden- Ground Covers, Carpet Beds, Bamboo Grooves, Topiary and Garden Adornments. Planning and Designing of Ornamental Gardens	15
UNIT III	Styles and Types of Landscape Garden: Garden Styles: Formal, Informal and Freestyle, Wild Gardening, Types of Gardens: Persian, Mughal, Japanese, English, Italian, Buddha, Spanish and Vanams. Special Types of Gardens: Vertical Garden, Roof Garden, Bog Garden, Sunken Garden, Rock Garden, Clock Garden, Bonsai Gardens, Temple Garden & Sacred Groves.	20
UNIT IV	Urban Landscaping: Landscape Design for Specific Areas & Occasions- Industries, Institutions, Hospitals, Roadsides Residents, IT Parks, Restaurants, And Corporate Offices. Bio Aesthetic Planning- Eco Tourism, Botanical Gardens, Theme Parks, Indoor Gardening, Terrarium, Hydroponic Gardens, Therapeutic Gardening, Non -Plant Components, Water scaping, Xeriscaping and Hardscaping.	20
UNIT V	Indoor-Outdoor Plants -Kinds and Classification, Factors Influencing Growth of Plants. Planning and Execution of Landscape Design Based on the Styles and Kinds of Plants.	10
Total		75

PRACTICALS

1. Selection of ornamental plants, practices in preparing home garden designs/industrial gardens/institutional gardens/corporate.
2. Avenue planting, lawn making, planting herbaceous and shrubbery borders, project preparation on landscaping for different situations,
3. Visit to parks and botanical gardens.
4. Draw 2D and 3D landscape design.

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1. A K Tiwari (2012) Fundamentals of Ornamentals Horticulture and Landscape Gardening, NIPA publisher
2. Alka Singh (2015) A colour handbook: Landscape gardening, NIPA publisher
3. Desh raj (2017) Floriculture at a glance, Kalyani publishers
4. G. S. Randhawa, A.N. Mukhopadyay, A. Mukhopadhyay (1998) Floriculture in India, Jaideep publishers Delhi.
5. Harikrishnan Paliwal (2013) Ornamental Gardening- A user's Companion, Jain Publishing Company, Newdelhi
6. M Kannan , P Ranchana , S Vinodh (2016) Ornamental Gardening and Landscaping, NewIndia publishing agency

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- <http://ncert.nic.in/vocational/pdf/kegr101.pdf>
- http://agritech.tnau.ac.in/horticulture/horti_Landscaping_freshflower.html
- <https://www.basicsofgardening.com/types-of-garden>
- <https://www.designcad.com.au/wp/Docs/Landscape%20Design%20and%20CAD.pdf>

MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	S	S	M	M	S	S
CO2	S	S	M	M	S	M
CO3	S	S	S	M	S	M
CO4	S	S	S	S	S	S
CO5	S	S	M	M	S	M

CORE IV
CC4 – SUSTAINABILITY IN BUILDING SCIENCE

Time/Hrs: Theory: 6 Hrs
Credits: 5

Year: I
Semester: II

LEARNING OBJECTIVES

To enable the students to

1. Understand the importance of sustainability in the built environment.
2. Analyze the features of various materials that can be used to attain sustainability in buildings.
3. Get familiar with energy conservation and rating systems in buildings.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Analyse the role of sustainability in human health & environment.	K1, K4
CO2	Identify the materials that can reduce energy consumption in buildings.	K2
CO3	Discuss various construction strategies in buildings for sustainability.	K1, K2
CO4	Analyse the ways of conserving water in the built environment.	K4
CO5	Examine the ways of implementing energy conservation in buildings.	K4, K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	<p>Concept of Sustainability Sustainable building technology – Meaning, need for developing sustainable building concept in India, Importance of sustainable building technology, benefits of green buildings – environmental benefits, economic benefits, social benefits, Disadvantages of green buildings. Impact of sustainable building on human health and the natural environment.</p>	20
UNIT II	<p>Eco friendly building materials & Finishes Environmental impact study of building materials and finishes about composition, production, recycling and physical properties. Benefits of materials & finishes – Bamboo, straw bale, steel, wood, dimension stone, recycled plastic, Recycled stone, non-toxic metals, fly ash bricks, precast concrete slabs, Earth blocks-compressed, rammed earth and baked; flax linen, sisal, wood fibers, cork, coconut, non- VOC paints and polyurethane block, gypsum, cork, hempcrete, ferrock & timbercrete.</p>	20
UNIT III	<p>Sustainable Construction techniques Daylighting Passive heating methods: Direct solar gain, thermal mass, massing and orientation, trombe wall construction Passive cooling methods: Natural ventilation – single sided, cross ventilation, stack effect; cooling tower, earth air tunnels, shading devices, courtyard effect, evaporative cooling, insulation. Cool roofs and roof ponds.</p>	20
UNIT IV	<p>Water conservation Water conservation technology – need for water conservation, Difference between water conservation and water efficiency, Strategies to save water at home. Rain water harvesting- meaning, importance of rain water harvesting, requirements of rain water harvesting structure, methods of rainwater harvesting systems – surface runoff and Roof top rainwater harvesting, advantages, Grey water usage.</p>	15
UNIT V	<p>Energy conservation & rating systems Building regulations-norms and standards, zoning, housing for special groups and areas, housing finance. Housing and environment - building materials - impact on environment, green rating systems - ECBC, NBC, GRIHA, IGBC, BEE energy efficiency in buildings, energy auditing, indices of indoor comfort.</p>	15
Total		90

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1. J. Paul Guyer (2015), An Introduction to Water Conservation for Buildings, Createspace Independent Pub
2. Kathryn Rogers Merlino (2020), Building Reuse: Sustainability, Preservation, and the Value of Design (Sustainable Design Solutions from the Pacific Northwest), University of Washington Press
3. Liliane Wong (2016), Adaptive Reuse: Extending the Lives of Buildings, Birkhäuser Publishers
4. Lori Dennis (2021), Green Interior Design: The Guide to Sustainable High Style, Allworth Publishers
5. Umberto Desideri & Francesco Asdrubali (2018), Handbook of Energy Efficiency in Buildings: A Life Cycle Approach, Butterworth-Heinemann Publishers

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- https://content.kopykitab.com/ebooks/2018/09/22255/sample/sample_22255.pdf
- https://library.uniteddiversity.coop/Ecological_Building/Strategies_for_Sustainable_Architecture.pdf
- https://s3.ap-south-1.amazonaws.com/aipnpc.org/downloads/T_5053_GENERAL_ASPECTS_OF_ENERGY_MANAGEMENT_AND_ENERGY_AUDIT.pdf
- <https://www.grihaindia.org/sites/default/files/pdf/ECBC-Code.pdf>
- <https://www.hyderabadwater.gov.in/en/themes/HMWS/downloads/rainwaterharvesting.pdf>

MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	S	S	M	M	W	S
CO2	S	S	M	M	W	S
CO3	S	S	M	W	M	S
CO4	S	S	M	M	M	S
CO5	S	S	M	M	M	S

CORE V
CC5 – TEXTILE SCIENCE

Time/Hrs: Theory: 6 Hrs
Credits: 5

Year: I
Semester: II

LEARNING OBJECTIVES

To enable the students to

1. Understand the processes of manufacture of textile fibers and yarns.
2. Become familiar with the types of yarns, their properties and usage.
3. Acquire a broad awareness of textile uses in home furnishings.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Recall the basic concepts of classification and properties of textile fibers and describe the method of manufacture.	K1, K2
CO2	Classify the various types of yarn and summarize the steps of yarn manufacture.	K2
CO3	Illustrate the parts of a loom and weaving mechanism and categorize the different types of weaves.	K2, K4
CO4	Analyze the concepts of dyeing, printing and compile them according to their application, manufacture on the environment and utility.	K5, K6
CO5	Evaluate the impact of fabric finishes for home furnishings.	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	<p>Fiber Study Classification of textile fibers - natural and man-made fibers. Essential properties of textile fibers - primary and secondary properties. Manufacturing process and uses of natural fibers - cotton, jute, silk and wool. Manufacturing process and uses of synthetic fibers – polyester, rayon and nylon.</p>	20
UNIT II	<p>Yarn Study Definition of yarn, Steps involved in the processing of yarn. Classification of yarns: Based on length - Staple and Filament Yarns, Based on number of parts in a yarn - Simple yarns (simple, ply and doubled, cable) and Novelty yarns (slub, flake, spiral, ratine, boucle, knot and chenille) Based on Twist - S twist and Z twist</p>	20
UNIT III	<p>Weaving Definition of Warp and Weft. Parts of a loom. Basic weaving operations. Basic fabric weaves - Plain, Twill, Satin. Fancy Weaves - Jacquard, Leno, Double Cloth, Lappet, Swivel, Spot and Pile.</p>	15
UNIT IV	<p>Dyeing and Printing The definition of dyeing, difference between dyeing and printing. Classification of Dye - Natural and Synthetic. Methods of dyeing - Stock, Top, Yarn and Piece dyeing. Styles of printing - Direct - Block, Roller and Duplex printing, Discharge - Blotch, Photo and Resist printing - Tie and dye, Batik, Stencil and Screenprinting.</p>	20
UNIT V	<p>Fabric Finishes: Definition of finishes, classification of finishes, types of finishes - scouring, bleaching, tentering, calendaring, sizing, mercerizing, napping and sanforizing.</p>	15
Total		90

REFERENCES

1. William S Murphy (2021), “The Textile Industries: a Practical Guide to Fibres, Yarns & Fabrics in Every Branch of Textile Manufacture, Including Preparation of Fibres, ... Printing, Dyeing and Finishing; vol. 5”, Legare Street Press Publishers”.
2. Pizzuto’s,J.J (2010), “Fabric Science”, 9th Edition, Fairchild Books, U.S.A.
3. Dantyagi. S (2020), “Fundamentals of Textiles and their Care”, V edition, OrientLongman, India.
4. Horrock AR and S. C. Anand (2015)” Handbook of technical textiles”, The TextilesInstitute, Wood Head Publishing Ltd, England.
5. Dr. Deepali Rastogi Dr. Chanchal Dr. Sheetal Chopra Dr. Chitra Arora (2016). Textile Science A Practical Manual, Elite Publishing

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- <https://www.slideshare.net/namit129/lyocell-final-ppt-28-1013?>
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- textilelearner.blogspot.com/2011/07/dyeing-process-different-types-of-dye_1720.html
- www.makeinindia.com/article/-/v/technical-textiles-a-bright-future
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- www.technicaltextile.net › Articles › Sports Textiles

MAPPING OF COs WITH PSOs

CO/PS O	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	W	S	M	M	S	W
CO2	W	S	M	M	S	W
CO3	W	S	M	M	S	W
CO4	M	S	M	M	M	M
CO5	M	S	M	M	W	S

CORE VI
CC6 – FURNISHING IN INTERIORS (Practical)

Time/Hrs: Practical: 6 Hrs
Credits: 4

Year: I
Semester: II

LEARNING OBJECTIVES

To enable the students to

1. Learn the importance of furnishings in interiors.
2. Identify various types of furnishings, criteria for their selection and care.
3. Acquire awareness on the use of textiles in home furnishings.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Recall the basic stitches and demonstrate the application of seams and fullness.	K1, K2, K3
CO2	Extend and apply the concepts of seams and fullness in different types of curtains and draperies.	K1, K2, K3
CO3	Understand the design and choose suitable methods of repair for soft floor coverings.	K2, K3
CO4	Categorize bedding and seating furnishings and design them aesthetically.	K2, K6
CO5	Compile various accessory furnishings and select suitable textile embellishments.	K2, K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	<p>Introduction to Stitching</p> <p>a. Basic Seams: Plain, Top stitched Seam, Lappet Seam.</p> <p>b. Seam Finishes: Pinked, Overcast, Herringbone, and Edge Stitched Seam.</p> <p>c. Introduction to Fullness</p> <p>Pleats - Box, Inverted and Pinch pleats Gathers - Gathering by Hand and Machine.</p> <p>Prepare an album of samples of seams, seam finishes and fullness.</p>	15
UNIT II	<p>Window Treatments</p> <p>a. Types of Curtains: Glass, Tiebacks, Café, Casement, Criss-cross, Tier and Sheer Curtains.</p> <p>b. Types of Draperies: Panel, Valence, Cornice, Swags and Cascades.</p> <p>Application of suitable seams and fullness to construct any two types of curtains and any two types of draperies.</p>	20
UNIT III	<p>Soft floor Coverings</p> <p>a. Carpets and Rugs, Accent and Spot Rugs. Rugs based on shapes and sizes.</p> <p>b. Carpets based on construction - Woven and Non-woven.</p> <p>Repair of Carpets and Rugs - Mending, Darning, Appliqué and Patchwork.</p>	20
UNIT IV	<p>Bedding and Seating Furnishings</p> <p>a. Bed linens, Pillow covers, Quilts, Slipcovers, Cushion covers and Upholstery.</p> <p>b. Construction of Pillow Cover, Cushion Cover and Bolster</p> <p>c. Decoration of Bedding and Seating Furnishings</p> <p>i) Basic Hand Embroidery Stitches: Outline stitches - Running, Back, Stem Looped Stitches: Chain, Blanket, Feather Knot Stitches: Bullion, French Flat Stitches: Satin, Long and Short</p> <p>ii) Traditional Embroidery: Chikankari of Lucknow, Kanta of Bengal, Phulkari of Punjab, Kasuti of Karnataka and Kashida of Kashmir</p> <p>Application of Basic hand Embroidery stitches on pillow covers.</p> <p>Application of any one Traditional Embroidery on cushion covers or bolsters, tablecloth handkerchief bedspread shawl.</p>	20
UNIT V	<p>Accessory Furnishings</p> <p>a. Wall hangings, tablecloths, table runners, throw blankets, lamp covers, vases, tapestries and accent furniture.</p> <p>Visit Home Furnishing Centres and collect swatches of home furnishings.</p> <p>Prepare a catalogue using swatches of home furnishings.</p>	15
Total		90

REFERENCES

1. “Soft Furnishings Room by Room” (2000), Eglemoss Publications Limited, United States.
2. Mathews, M. (2005), “Practical Clothing Construction Part I & II”, Cosmic Press, Chennai.
3. Mehta, R.J (2010), “Masterpieces of Indian Textiles”, B.B Taraporewala & Sons Pvt.Ltd, India.
4. Philips. B., (2000), “Hamlyn Book of Decorating”, Octopus Publishing Ltd., London.
5. Christine Haynes, (2014) “The Complete Photo Guide to Clothing Construction”, Creative Publishing international.
6. Wilhide, E and Copestick, I., (2000), Contemporary Decorating, Conron Octopus Ltd., London

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- <http://cepc.co.in/>
- https://sites.create-cdn.net/sitefiles/20/6/6/206653/Making_an_overlap_cushion_cover._Colour_pics._July_2017.pdf
- <https://catalogimages.wiley.com/images/db/pdf/9780470101490.excerpt.pdf>
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MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	M	S	M	M	S	S
CO2	M	S	M	M	S	S
CO3	M	S	W	M	S	S
CO4	M	S	W	M	S	S
CO5	M	S	W	M	S	S

ELECTIVE COURSE III
EC3 – RESEARCH METHODOLOGY AND STATISTICS

Time/Hrs: Theory: 4 Hrs
Credits: 3

Year: I
Semester: II

LEARNING OBJECTIVES

To enable the students to

1. Understand the fundamental principles and techniques in Research Methodology
2. Get an overview of the methodologies used in research.
3. Apply statistical procedures to analyze numerical data and draw inferences.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Understand Research and its characteristic features and explore the different types of research design. Analyze the research problems and formulate suitable Hypothesis.	K1, K2, K4
CO2	Analyze different sampling techniques and selecting the suitable sampling technique for data collection.	K2, K4
CO3	Identify methods of Data collection using scaling techniques and assessment of data.	K1, K4
CO4	Process and Analyze data through statistical analysis and SPSS software.	K4
CO5	Present research data in a scientific manner and understand the key elements of a research report.	K1, K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	<p>Research: Meaning of Research - objectives of Research – Characteristics of Research – Significance of Research. Types of research – Descriptive vs. Analytical, Applied vs. fundamental, Quantitative vs. Qualitative, Conceptual vs. Empirical, Exploratory research and Ex-post Facto research.</p> <p>Research design: Identification of Research problem, Variable: Dependent variable, independent variable, extraneous variable. Hypothesis - Definition, types - null and alternate hypothesis.</p>	15
UNIT II	<p>Sampling design: Definition of sample, types of sampling design- probability sampling- simple random, complex random, stratified sampling, multistage sampling and non- probability sampling - deliberate sampling, purposive sampling, convenience sampling and judgment sampling.</p>	10
UNIT III	<p>Methods of data collection – Collection of Data - Preparation of tools for data collection –</p> <p>Primary Data - questionnaire, interview and observation.</p> <p>Secondary Data - 1. Published Sources 2. Unpublished Sources</p> <p>Scaling technique - Nominal, Ordinal, Interval and Ratio.</p> <p>Processing of data – Editing, coding, classification & tabulation.</p>	10
UNIT IV	<p>Quantitative Analysis- Basic Concept and Simple Sums in Measures of Central Tendency – Mean, Median & Mode. Measure of Dispersion - Standard Deviation.</p> <p>SPSS Interpretation of t – test – One sample, Independent, Paired t test, ANOVA, Chi – Square – Goodness of fit.</p>	15
UNIT V	<p>Basics of Report writing and presentation: Significance of report writing, layout of research report, Types of report – technical and popular. Journal article, APA format reference.</p>	10
Total		60

Practicals

1. Create e- form for survey method.
2. Analysis: Cross Tabulation, Frequency, Mean, Median, Mode,
3. Graphical and diagrammatic representation of tables
4. Applicable Statistical Analysis Software- Literature Searching-PubMed
5. Data Analysis- Micro Soft Excel, SPSS, Plagiarism Checker –Turnitin, Scribbr reference Manager - Mendeley

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1. Gupta, S.P., (2021) Statistical Methods, Sultan Chand and Sons, New Delhi,
2. John W Creswell & David Creswell (2018) Research Design: Qualitative, Quantitative, and Mixed Methods Approaches Sage Publications
3. Kerlinger F. N. and Lee, H.B. (2000) Foundations of Behavioural Research 4th Ed. Harcourt College Publishers
4. Kothari, C. R. (2019) Research Methodology: Methods and Techniques 2nd Ed. New Age International Pvt Ltd, New Delhi.
5. Kumar R. (2005) Research Methodology: A Step by Step Guide for Beginners. Sage Publications, New Delhi.
6. R Paneerselvam (2014) Research Methodology, PHI learning

E-LEARNING RESOURCES

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- <https://ccsuniversity.ac.in/bridge-library/pdf/Research-Methodology-CR-Kothari.pdf>
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MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	M	M	M	S	W	S
CO2	M	M	M	S	W	S
CO3	M	M	M	S	S	S
CO4	M	M	M	S	W	S
CO5	M	M	M	S	S	S

ELECTIVE IV
EC4 – ADVANCED GRAPHIC DESIGN

Time/Hrs: Theory: 4 Hrs
Credits: 3

Year: I
Semester: II

LEARNING OBJECTIVES

To enable the students to

1. Acquire basic knowledge of drawing and sketching exercises.
2. Know and effectively use photography, calligraphy and typography in developing logos and poster designs.
3. Explore various social media and digital apps used in promoting brand names.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Understand the concept of drawing and sketching and know the basic material and mediums used for sketching.	K2, K3
CO2	Create Logos and posters using graphic design.	K3, K6
CO3	Apply calligraphy and typography in developing graphic design.	K3, K6
CO4	Choose social media for brand promotion.	K2
CO5	Visualize interior design themes through digital apps.	K5, K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	Drawing & sketching – Meaning and concept, Materials - Different sketching techniques and drawing mediums - Pencil and its types, Charcoal, Pastels, types of Paints. Usage of different points of pencils, handling of pencils. Drawing sheets and its sizes.	10
UNIT II	Graphic Design - Introduction, Types - Booklets, Brochures, Posters. Roles and responsibilities of graphic designer. Logo Design - Definition and its importance, Types of Logos, Guidelines for creating logos.	10
UNIT III	Photography - Definition, Importance of photography in Graphic Design, Effective Ways of using Photography in graphic design. Calligraphy - Definition, Styles of calligraphy, Equipment used in calligraphy. Typography - Definition, Styles of fonts - Formal, Informal, Creative lettering.	10
UNIT IV	Branding - Concept, Importance of branding, Selection of Brand elements, Methods of Branding, Choosing social media for brand promotion. Packaging for products.	10
UNIT V	Visualization - Visualizing interior design themes and implementing them through digital apps. Ideation, Mood board - types - Digital and physical, Components of mood board.	10
PRACTICALS	<ol style="list-style-type: none"> 1. Pencil exercises 2. Creation of logos, poster making. 3. Calligraphy and typography. 4. Designing Web page and creating designs using digital apps. 5. Creating mood boards, Swatch boards. 	10
Total		60

REFERENCES

1. George Hlavacs (2022), “The Exceptionally Simple Theory of sketching”, BIS; Expandededition, ISBN-13: 978-9063696405
2. Gilles Ronin (2019), “Drawing for Interior Designers”, Herbert Press, ISBN-13:978-1789940053
3. Jorge Paricio Garcia (2019), “Hybrid Drawing Techniques for Interior Design”, Routledge;1st edition, ISBN-13: 978-1138280663
4. Koos Eissen and Roselien Steur (2019), “Sketching: the basics”, BIS; Illustrated edition,ISBN-13: 978-9063695347
5. Robert Philip Gordon (2016), “Integrated Drawing Techniques: Designing interiors withHand Sketching”, Fairchild Books, ISBN-13: 978-1628923353
6. Stephanie Travis (2015), “Sketching for Architecture, Interior Design”, Laurence KingPublishing, ISBN-13: 978-1780675640

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- Susie Hodge and Lan Sidaway (2019)t, “The Pencils, Papers and Erasers you need to start drawing”, <https://www.artsy.net/article/artsy-editorial-pencils-papers-erasers-start-drawing>
- Casey Schmidt, (2020), “5 Methods of Branding that could make all the difference”, <https://www.canto.com/blog/methods-of-branding/>
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MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	W	M	W	S	S	W
CO2	M	M	M	S	S	W
CO3	M	M	M	S	S	W
CO4	M	M	W	S	S	W
CO5	S	M	W	S	S	M

**SKILL ENHANCEMENT COURSE – I
SEC 1 – FURNITURE ARRANGEMENT**

**Time/Hrs: Theory: 4 Hrs,
Credits: 2**

**Year: I
Semester: II**

Learning objectives:

To enable the students to

1. Acquire basic knowledge of arranging furniture in a residential space.
2. Draw different ways of furniture arrangement for commercial space.

COURSE OUTCOME

On successful completion of the course the student will be able to

CO	CO STATEMENT	K LEVEL
CO1	Understand the proportion, placement and arrangement of furniture for different spaces.	K1, K2, K6
CO2	Develop furniture layout for various spaces in a residence.	K2, K6
CO3	Develop furniture templates for residence.	K6
CO4	Identify the requirements for furniture arrangement for different income groups	K2, K6
CO5	Acquire knowledge on the care & maintenance of furniture.	K1, K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

THEORY

UNIT	CONTENT	HOURS
UNIT I	Arrangement of furniture using principles of design, general guiding concepts in arranging furniture, planning furniture for selected activities. Selection and arrangement – Commercial furniture. Executive table/ office table, Reception table, cabinet storage, Display unit.	10
UNIT II	Draw furniture designing & detailing in different rooms – Living room, Study room, Pooja room, Dining room, bedroom. Draw Free hand sketches of graphic symbol of furniture.	10
UNIT III	Templates & Proportions - Placement and arrangement of furniture in different rooms - Living room, Study room, Bedroom & Dining room. Basic guidelines involved in furniture proportions & templates.	10
UNIT IV	Principles of design in furniture arrangement. Minimalistic requirements of Furniture in Low income, Middle income and High-income families.	10
UNIT V	Care of different types of furniture – wood, metals, plastic, and cane. Furniture polishes – types, natural and synthetic varnishes.	10
	Practicals: 1. Field visit - Carpentry workshop. 2. Model of carpentry joints. 3. Demonstration of Staircase with the help of respective models. 4. Draft a sheet of door/ window/ chair/ table/ bed (anyone)	10
	TOTAL	60

REFERENCES:

1. Gandotra V, Shukul M and Jaiswal N, (2011). "Introduction to Interior Design and Decoration", New Delhi: Dominant publishers, India
2. Chaudhari.S.N, (2006), "Interior Design", Jaipur: Aavishkar Publisher, India
3. Stuart.L, (2013) "Furniture Design: An Introduction to Development, Materials and Manufacturing", Laurence King Publishing, London.
4. Anita.T, (2011), "Textiles for Apparel and Home Furnishing", New Delhi: Sonali Publications, India.
5. Kharuna.S, (2012), "Fabrics for Fashion and Textile Design", New Delhi: Sonali Publications, India

E-LEARNING RESOURCES

- http://homes.ieu.edu.tr/ffd301/INSTRUCTOR%20PRESENTATIONS/FFD301_Presentation01_history_of_furniture.pdf
- <https://catalogimages.wiley.com/images/db/pdf/9781118090787.excerpt.pdf>
- (https://www.google.co.in/books/edition/Illustrated_History_of_Furniture/j8AgAAAMAAJ?hl=en&gbpv=1)
- <https://koalaliving.com.au/blog/golden-ratio-design-template>

MAPPING OF COs WITH PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	S	S	S	M	M	M
CO2	S	S	S	M	M	M
CO3	S	S	S	M	M	M
CO4	S	S	S	M	M	M
CO5	S	S	S	M	M	M