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Undergraduate Programme
Home Science – Interior Design and Decor

Curriculum and Syllabus
(With effect from the Academic Year 2023-24)

June 2023

Learning Outcome based Curriculum Framework

Note: The Board of Studies is designed Learning Outcomes Based Curriculum Framework of Undergraduate Home Science - Interior Design and Décor Programme prescribed by UGC.

Undergraduate Programme in HomeScience – Interior Design and Decor

JUNE 2023

Curriculum and Syllabus for B.Sc Home Science -Interior Design and Decor

(With effect from the Academic Year 2023-24)

I. Preamble

Home Science is a broad area with a focus on inter-disciplinary perspectives. Subjects which fall under the umbrella of Home Science include Foods and Nutrition, Textiles and Clothing, Community Nutrition, Food Service Management and Dietetics, Family Resource Management, Interior Decoration and Human Development. 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, food and hospitality, textiles, home and office interiors.

Thus, this programme offers courses which can synergistically promote the quality of lives of the community as a whole. Interior Design graduates in India are presented with an array of exciting career opportunities, ranging from firm-level positions to freelance expertise, providing them with a wide scope for professional exposure in the industry. The interior design industry in India, renowned for its creativity, encompasses professionals who excel in developing floor plans, 3D sketches, and models that are highly sought after by property developers and builders. Interior designers are being demanded to conceive, plan, and execute all kinds of residential or commercial interior projects, from private homes to spas, furniture exhibitions, offices, retail establishments, etc. Moreover, the taste of today's young generation has changed so much that they love tiny yet trendy homes where they can create an exclusive decorating style. This in turn creates demand for designers to provide appropriate solutions around space utilization, construction technologies, eco-friendly/green materials, regulations & building bylaws, development patterns, consumer behavior, etc.

With the expanding population and a growing demand for new homes and commercial spaces, there will be an increased requirement for skilled interior designers who can effectively plan and create practical spaces, highlighting the growing importance of their role in the industry. This programme can also lay the foundation for evidence-based research and qualify the student to pursue higher education in any field of specialization arising from the branch of Home Science.

Nature and Extent of the Programme

Home Science has adopted an ecological approach in its curriculum that engages the student through teaching, research and extension. Interior designers assist businesses and homeowners in organising the structure, colour schemes, furniture, and decorations of their buildings whereas Interior decorator makes any space appealing and functional.

The programme offers courses such as Fundamentals of art & design, lighting and accessories, space planning, furniture design, 3D modelling in design, furnishings in interiors, kitchen design, building finishes and services which will help students to play various roles like colour consultant, retail interior designer, exhibition designer, lighting designer, modular kitchen designer and ergonomic furniture designer. Courses such as Ergonomics, entrepreneurship development, front office, resource management, mass communication and human nutrition gives an insight to students for developing themselves in various aspects with effective implementation of their skills and to gain knowledge for clearing competitive exams successfully.

The new structure of the curriculum includes 15 Core papers that give solid foundation in the specialization of Interior Design, which are ably supported by 8 Elective papers that give insight into related subjects of study under the branch Home Science which include front office, floriculture and landscape design, building services, applied art on textiles, human nutrition, mass communication, entrepreneurship development and household equipment. Special focus on enhancing the skills is provided through 8 Skill enhancement courses that ensure acquisition of transferrable skills that increase the employability readiness of the student in multiple avenues that are either closely or distantly related to the centric subject of Home Science. Emphasis on professional competency is offered through course papers in softskill, ability enhancement and competitive exams preparedness is an additional highlight of the newly framed curriculum. Thus, the programme offers a wide scope for various career options and paves the way for specialization in a wide variety of post graduate programmes under the umbrella of Home Science.

Aim of the Programme

The programme focuses on providing a student-centered teaching and learning environment. Students are provided with a variety of experiences that provides knowledge and skills on various designs. This also prepares students to enter this profession with a comprehensive portfolio and strong work ethics.

PROGRAMME OBJECTIVES

Programme	B.Sc., Home Science - Interior Design and Decor
Code	
Duration	3 years [UG]
Programme Outcomes	PO1: Disciplinary Knowledge and Skills Demonstrates theoretical and practical knowledge and understanding of subjects related to Family Resource Management and Interior Design and Decor.
	PO2: Effective Communicator Capable of effective communication of subject specific scientific information through oral and written formats using ICT wherever necessary. Explores communication skill set to engage key stakeholders such as domestic and commercial clientele.
	PO3: Critical thinking, Analytical reasoning and problem solving. Applies disciplinary knowledge, understanding and transferable skills to the given context. Capable of identifying and analysing problems and issues and finding solutions in planning spaces and interiors suitable to homes and commercial establishments
	PO4: Research and Scientific Reasoning Demonstrates skills in research through collection of relevant qualitative and quantitative data, analysis and interpretation of data using appropriate methodologies for formulating evidence-based solutions and arguments
	PO5: Co-operation/ Teamwork Capable of contributing significantly and working enthusiastically both independently and in a group
	PO6: Digital Literacy Demonstrates competency in accessing relevant and authentic information and data from electronic media with a motive to learn and synthesize information for academic and extension work presentation; prepare computer aided designs and use specific software to plan interiors for the home and commercial establishments.
	PO7: Multicultural competence Recognizes and assesses societal, environmental and cultural issues related to area of study within the local and global context
	PO8: Moral and Ethical awareness/reasoning: Displays moral responsibility and values; Has a professional approach, is objective, unbiased and truthful in all aspects of work and refrains from unethical practices such as plagiarism, fabrication, falsification, misinterpretation of the data and breaching intellectual property rights
	PO9: Leadership readiness/qualities Develops leadership skills, takes initiative, mobilizes resources has the capacity to lead group projects and initiatives successfully

	<p>PO10: Lifelong learning</p> <p>Capable of staying motivated to be updated consistently with content, concepts, theories, specializations, fields, technologies, books and avenues to meet professional and personal needs at any given instant.</p>
<p>Programme Specific Outcomes: On successful completion of the program the student:</p>	
PSO 1	Acquires knowledge and understanding concepts in core areas such as Family Resource Management, Interior Design and Decor and supporting courses in Textiles, Communication as well as Nutrition.
PSO2	Develops ability to articulate subject knowledge effectively both orally or written to all categories of stake holders/beneficiaries such as patients, clients, professionals and layperson.
PSO3	Is competent in the use of ICT for collecting and disseminating scientific information.
PSO4	Acquires skill to translate knowledge of art and design to select interiors, structure and decorative requirements of residential and commercial places.
PSO5	Is capable of pursuing higher education, research or engaging in teaching, entrepreneurship, public or corporate sector.

**Credit Distribution for UG Degree Programme
(B.Sc. Home Science- Interior Design and Décor)
First Year
Semester-I**

Part	List of Courses	Credit	Hours per week (L/T/P)	Int.	Ext.	Total
Part-I	Language Paper-I	3	6	25	75	100
Part-II	100L1Z: English Paper-I	3	6	25	75	100
Part-III	131C1A: Core 1 – Fundamentals of Art and Design	5	5	25	75	100
	131C1B: Core 2 – Residential Space Planning	5	5	25	75	100
	131E1A: Elective 1 - Floriculture and Landscape Design	3	4	25	75	100
Part-IV	131S1A: SEC-1 - (Non-Major Elective) - Event Management*	2	2	25	75	100
	100L1L: Basic Tamil-I (Other Language Students) *					
	100L1M: Advanced Tamil-I (Other Language Students) *					
	131B1A: Foundation Course in - Interior Design	2	2	25	75	100
		23	30			

*** PART-IV: SEC-1 / Basic Tamil / Advanced Tamil (Any one)**

- Students who have studied Tamil upto XII STD and also have taken Tamil in Part I shall take SEC-I.
- Students who have **not** studied Tamil upto XII STD and have taken any Language other than Tamil in Part-I shall take **Basic Tamil** comprising of Two Courses (level will be at 6th Std.).
- Students who have studied Tamil upto XII STD and have taken any Language other than Tamil in Part-I shall take **Advanced Tamil** comprising of Two Courses.

Semester-II

Part	List of Courses	Credit	Hours per week (L/T/P)	Int.	Ext.	Total
Part-I	Language Paper-II	3	6	25	75	100
Part-II	100L2Z: English Paper-II	3	6	25	75	100
Part-III	131C2A: Core 3 – Building Finishes	5	5	25	75	100
	131C21: Core 4 – Residential Space Planning (Practical)	5	5	40	60	100
	131E2A: Elective 2 - Front Office Management	3	4	25	75	100
Part-IV	131S2A: SEC-2 (Non-Major Elective – Accessories) *	2	2	25	75	100
	100L2L: Basic Tamil-II (Other Language Students) *					
	100L2M: Advanced Tamil-II (Other Language Students) *					
	131S2B: SEC-3 (Discipline Specific – Handicraft)	2	2	25	75	100
		23	30			

Second Year - Semester-III

Part	List of Courses	Credit	Hours per week (L/T/P)	Int.	Ext.	Total
Part-I	Language Paper-III	3	6	25	75	100
Part-II	200L3Z: English Paper-III	3	6	25	75	100
Part-III	231C3A: Core 5 – Lighting and Accessories	5	5	25	75	100
	231C3B: Core 6 – Basics of AutoCAD	5	5	25	75	100
	231E3A: Elective 3 – Applied Art on Textiles	3	4	25	75	100
Part-IV	231S3A: Skill Enhancement Course -SEC-4 (Entrepreneurial Based – Decorative Styles)	1	1	25	75	100
	231S3B: Skill Enhancement Course -SEC-5 (Discipline Specific - Free Hand Sketching)	2	2	25	75	100
	Environmental Studies	-	1			
		22	30			

Semester-IV

Part	List of Courses	Credit	Hours per week (L/T/P)	Int.	Ext.	Total
Part-I	Language Paper-IV	3	6	25	75	100
Part-II	200L4Z: English Paper-IV	3	6	25	75	100
Part-III	231C4A: Core 7 – Furnishings in Interiors	5	4	25	75	100
	231C4I: Core 8 – Computer Aided Design (Practical)	5	4	40	60	100
	231E4A: Elective 4- Building Services	3	4	25	75	100
Part-IV	231S4A: Skill Enhancement Course –SEC6 (Discipline Specific - Visual Merchandising)	2	2	25	75	100
	231S4B: Skill Enhancement Course -SEC-7 (Computer Applications in Home Science)	2	2	25	75	100
	231V4A: Environmental Studies	2	2	25	75	100
		25	30			

Third Year - Semester-V

Part	List of Courses	Credit	Hours per week (L/T/P)	Int.	Ext.	Total
Part-III	331C5A: Core 9 – Furniture Design	4	5	25	75	100
	331C5B: Core 10 – Application of Color in Interiors	4	5	25	75	100
	331C5C: Core 11 – Kitchen design	4	5	25	75	100
	331C5D: Core 12 - Project with Viva Voce	4	5	25	75	100
	331E5A: Elective 5 – Human Nutrition	3	4	25	75	100
	331E5B: Elective 6 – Mass Communication	3	4	25	75	100
Part-IV	331V5A: Value Education	2	2	25	75	100
	331V5B: Internship / Industrial Training (Carried out in II Year Summer vacation) (30 hours)	2	---	25	75	100
		26	30			

Semester-VI

Part	List of Courses	Credit	Hours per week (L/T/P)	Int.	Ext.	Total
Part-III	331C6A: Core 13 – Ergonomics	4	6	25	75	100
	331C6B: Core 14 – Principles of Resource Management	4	6	25	75	100
	331C61: Core 15 – 3D Modelling in Design (Practical)	4	6	40	60	100
	331E6A: Elective7 - Entrepreneurship Development	3	5	25	75	100
	331E6B: Elective 8 - Household Equipment	3	5	25	75	100
Part IV	331S6A: Professional Competency Course (Aptitude and reasoning skills for competitive examinations)	2	2	25	75	100
Part-V	331V6A: Extension Activity (Outside college hours)	1	-			
		21	30			

Total Credits: 140

6. CREDIT DISTRIBUTION FOR UG PROGRAMME (B.Sc. Home Science-Interior Design and Decor)

[illegible]

7. CONSOLIDATED SEMESTER WISE AND COMPONENT WISE CREDIT DISTRIBUTION

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	TotalCredits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	2	23
Part V	-	-	-	-	-	1	1
Total	23	23	22	25	26	21	140

***Part I, II and Part III components will be separately taken into account for CGPA calculation and classification for the undergraduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible to obtain the UG degree.**

Methods of Evaluation Theory and Practical		
Internal Evaluation	Continuous Internal Assessment Test	25 Marks
	Assignments	
	Seminars	
	Model examination	
	Attendance and Class Participation	
External Evaluation	End Semester Examination	75 Marks
	Total	100 Marks

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S.No.	Contents	SEM
	List of Mandatory Courses/ Core Courses/Allied Courses*	
1.	Fundamentals of Art and Design	I
2.	Residential Space Planning	I
3.	Building Finishes	II
4.	Residential Space Planning Practical	II
5.	Lighting and Accessories	III
6.	Basics of AutoCAD	III
7.	Furnishings in Interiors	IV
8.	Computer Aided Design Practical	IV
9.	Furniture Design	V
10.	Application of Colour in Interiors	V
11.	Kitchen design	V
12.	Project with Viva voce	V
13.	Ergonomics	VI
14.	Principles of Resource Management	VI
15.	3D Modelling in Design - Practical	VI
	List of Elective/Non-Major Elective**/ Skill Enhancement Optional Courses**	
1.	Floriculture and Landscape Design	
2.	Event Management	
3.	Front office Management	
4.	Accessories	
5.	Handicraft	
6.	Applied Art on Textiles	
7.	Decorative Styles	
8.	Free Hand Sketching	
9.	Building Services	
10.	Visual Merchandising	
11.	Human Nutrition	
12.	Mass Communication	
13.	Entrepreneurship Development	
14.	Household Equipment	
	**The elective courses listed above can also be considered for Skill Enhancement or Non-Major Elective and the credits and hours can be reduced accordingly.	
	Internship – Internship in Regional and National Interior design firms/Architecture firms. Construction companies – Space planning. Manufacturing Sectors – Metal arts and crafts, Ceramic design. Companies related to Building Material and Finishes.	
	List of Compulsory Skill Enhancement Courses to be offered	
1.	Computer Applications in Home Science SEC7	IV
2.	Aptitude and Reasoning skills for Competitive Examinations SEC8	VI

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Title of the Course		CORE-I: FUNDAMENTALS OF ART & DESIGN								
Course Code	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
131C1A	I	Y		Y		5	5	25	75	100

Learning Objectives
To enable the students to :
Understand the elements, principles of design.
Learn the concepts of color and create color scheme for interiors.
Learn the application of decorative styles and wall decorations in creating aesthetic interiors.

UNIT	CONTENT	HOURS
UNIT I	Introduction to art and design –Definition – Art & Design, Good Taste - Importance of Good Taste and Role of good designer. Types of design- Structural and Decorative design. Classification of Decorative Design - Naturalistic, Conventional, Abstract and Geometrical Design.	10
UNIT II	Elements of design - Line and its types – horizontal, vertical, diagonal, curved, zigzag; Shape; Form – 2D&3D, Size, Texture- tactile and visual; Space- positive & negative and Colour-warm and cool. Application of elements to form design.	10
UNIT III	Principles of Design - Harmony – harmony of line, shape, size, texture and ideas. Balance – symmetrical, asymmetrical and radial. Proportion – proportional relationships, Greek oblong and Scale. Emphasis – emphasis through grouping of objects, use of contrast color, decoration, plain background space, unusual lines, shapes, and sizes. Rhythm – achieving rhythm through repetition of shapes, progression of size, continuous line movement, radiation, and gradation.	15
UNIT IV	Colour - Definition, Qualities of colour, Hue, Value, Intensity. Tints and Shades. The colour wheel/systems - Prang colour system, Physicist's Theory, Psychologist's Theory, Harmonies of related colors- Monochromatic, Analogous and Accented Neutral; Harmonies of contrasting colours – Direct, double, split and triad.	15

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UNIT V	Decorative Styles – Concept and Characteristic features of Contemporary, Modern, Traditional, Transitional and Eclectic styles. Wall decoration–Origin, Motifs, Styles and Technique of Madhubhani, Warli, Pithora, Fresco and Tempera.	10
	PRACTICALS: a) Sketching different types of designs. b) Creating pattern using elements of design. c) Compiling Pictures of Interior rooms with Application of Art Principles. d) Painting different rooms with various colour harmonies. e) Painting Madhubani, Warli and Pithora art.	15
	TOTAL	75

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Classify design types like structural and decorative design

CO2: Use different elements of design appropriately in creating design objects.

CO3: Apply the Art principles in Interior Design.

CO4: Apply colour harmonies in various rooms.

CO5: Apply Decorative styles and Wall art in interiors.

References:

- Andal. A and Parimalam.P, (2008), “A Text Book of Interior Decoration”, Satish Serial Publishing House.
- Chaudhari, S.N. (2006), “Interior Design”, Aavishkar Publishers, Jaipur.
- Goldstein, (1976), “Art in Every Day Life”, Oxford and IBH Publishing House.
- Kasu, A.A. 2005, “Interior Design”, Ashish Book centre Delhi.
- P.C. Varghese (2013), “Building Construction”, PHI Learning Private Limited.
- Premavathy Seetharaman and Parveen Pannu, (2009), “Interior Design and Decoration”, CBS Publishers and Distributors Pvt Ltd. New Delhi.

e-Learning Resources:

- https://www.google.co.in/?gfe_rd=cr&ei=oJE8VvucFMOl8wfe0ZnICw#tbm=vid&q=principles+of+design+in+interior+design
- <http://www.docstoc.com/docs/108663367/The-Munsell-and-Prang-Color-Systems>
- <https://www.decorilla.com/online-decorating/transitional-interior-design/>
- <https://www.apartmenttherapy.com/modern-vs-contemporary-vs-minimalist-design-261783>

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Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	S	S	L	L	M	S
CO2	S	S	S	M	S	S	L	L	M	S
CO3	S	S	S	M	S	S	L	L	M	S
CO4	S	S	S	M	S	S	L	L	M	S
CO5	S	S	S	M	S	S	L	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		CORE-II: RESIDENTIAL SPACE PLANNING								
Course Code	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
131C1B	I	Y				4	5	25	75	100

Learning Objectives										
To enable the students to:										
1. Understand various technical aspects of building structures.										
2. Acquire knowledge in planning a Residential space.										

UNIT	CONTENT	HOURS
UNIT I	Housing – Selection of site and functions of house. Basic principles of planning a Residential space - Orientation, Grouping, Roominess, Lighting, Circulation, Storage Facilities and Privacy.	10
UNIT II	Types of house plans – Site plan, Floor plan, Elevation, Cross section and Perspective view. Organizing space plan - One Room Apartment, Twin Houses, Row houses and Multistorey flats	15
UNIT III	Creating a residential space- Factors in planning different rooms – Living Room, Bedroom, Dressing Room, Dining, Kitchen, Study Room, Storeroom, Bathroom, Utility space, Staircase and Verandah.	15
UNIT IV	Types of Doors – Hinged, Sliding, Swing, Revolving, Paneled and Louvered; Windows – Casement, Pivoted, Sliding, Bay window and Clerestory; Arches – Segmental, Semicircular, Pointed; Roofs – Flat roofs – Madras Terrace and RCC Roof and Pitched roofs	20
UNIT V	Rainwater harvesting – meaning, purpose, Benefits of using rainwater, components of rainwater harvesting system, methods - surface runoff and roof top rainwater harvesting.	15
	TOTAL	75

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Understand the principles in planning a residential space.

CO2: Discuss the types of Residential spaces and their application.

CO3: Examine the factors to be considered in planning different rooms.

CO4: Understand and apply the technical terms of building components.

CO5: Design rainwater harvesting system in residential buildings.

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References

- Dr. B.C. Punmia, Ashok Kumar Jain and Arun Kumar Jain, (Tenth edition). Building Construction. Laxmi Publications (P) Ltd.
- Faulkner. R, and Faulkner. S. (1987), Inside Today's Home, Rinehart publishing company, New York.
- P.C. Varghese, (May 2013). Building Construction, PHI Learning Private Limited.
- Riggs, R. (1992), Materials and components of Interior Design, prentice Hall of India Pvt.Ltd, New Delhi.
- S.S. Bhavikatti, (2012). Building Construction, Vikas Publishing Home Pvt Ltd.

e-Learning Resources:

- www.mppcb.nic.in/rwh.htm
- <http://ocw.mit.edu/courses/architecture/4-461-building-technology-i-materials-and-construction-fall-2004/lecture-notes/>
- <http://www.mist.ac.in/pdfs/principles-of-planning.pdf>
- <http://www.aboutcivil.org/site-selection-for-residential-buildings.html>
- http://www.housingeducators.org/Journals/H&S_Vol_24_No_3_Space_Planning_in_Residential_Design.pdf

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	M	M	L	L	M	S
CO2	S	S	S	M	M	M	L	L	M	S
CO3	S	S	S	M	M	M	L	M	M	S
CO4	S	S	S	M	M	M	L	M	M	S
CO5	S	S	S	S	M	M	S	S	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded off) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		ELECTIVE-I: FLORICULTURE & LANDSCAPE DESIGN								
Course Code	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
131E1A	I	Y		Y		3	4	25	75	100

Learning Objectives

To enable the students to :

1. Understand the importance of plants in landscape gardening.
2. Enable the students to learn the principles of landscape gardening.
3. Have practical knowledge in making flower arrangements and indoor plants.

UNIT	CONTENT	HOURS
UNIT I	Floriculture - Meaning concept and importance, ornamental plants. Classifications – Based on life period - annuals, Biennials and perennials. Based on growth - Shrubs, herbs, trees, climbers and creepers.	10
UNIT II	Flower arrangement – definition, principles, Steps in arranging flower, selection of containers, equipment used, different styles of arrangement – traditional, modern and Oriental Styles – Ikebana, Moribana, Rikka, Seika arrangement. Applying art principles in arranging flowers.	10
UNIT III	Indoor plants – meaning, importance, classification of indoor plants, care and maintenance of indoor plants. Decoration aspects in landscape area- lighting, garden furniture and dividers. Factors affecting growth of indoor plants-lighting, watering, temperature, humidity and manure. Selection of indoor plants for various rooms.	10
UNIT IV	Landscaping – Meaning and importance, The plan for landscape design – The foreground area, Private area and Service area. Types of Landscape – Soft landscape - Trees, Plants, Flowers, shrubs, Edges, Hedges, Foliage, Climbers and Hard Landscape – Fountain, Cascades, Pathway, Lighting, Seating, Gazebo, Arches and pergola.	15

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UNIT V	Garden design – formal and informal, principles of landscape gardening. Modern trends in gardening – Terrace garden, vertical gardens, Bog garden, sunken garden, Rock garden, Bonsai culture, roof gardens, plants in hanging baskets.	10
	PRACTICALS: 1. Making different styles of flower arrangement 2. Visit to nursery gardens. 3. Compiling pictures of indoor plants. 4. Sketching a landscape layout showing soft and hardscape components.	5
	TOTAL	60

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Describe the Concept of Floriculture and ornamental plants.

CO2: Experiment various flower arrangement styles and art principles in arranging flowers.

CO3: Interpret the Importance of indoor plants in relation to use of lightings, care and use in the interiors.

CO4: Recommend Landscape design with natural and artificial components of landscape.

CO5: Create the Modern trends in gardening and developing ornamental plants in home garden.

References:

- Desh raj (2017) Floriculture at a glance, Kalyani publishers
- G. S. Randhawa , A.N. Mukhopadyay, A. Mukhopadhyay , 1998 Floriculture in India, Jai deep publishers Delhi.
- R.A.Preece,(1992), Designs on the Landscape, CBS publishers, NewDelhi
- Ross, R. (1999), colorful gardening – Bulbs, Ryland peters and small, London.
- Ross, R. (1999), colorful gardening – climbers, Ryland peters and small, London.

e-Learning Resources:

- http://www.megagriculture.gov.in/PUBLIC/floriculture_objectives.aspx
- <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>

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Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0
CO1	S	S	S	M	M	M	S	M	M	S
CO2	S	S	S	M	S	M	S	M	M	S
CO3	S	S	S	M	M	M	S	M	M	S
CO4	S	S	S	M	M	S	S	M	M	S
CO5	S	S	S	M	M	S	S	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		SEC-I: EVENT MANAGEMENT								
Course Code	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
131S1A	I	Y				2	2	25	75	100

Learning Objectives
To enable the students to :
Understand the concepts of event management.
Effectively adjust, grow and excel in the field of Event Management.

UNIT	CONTENT	HOURS
UNIT I	Introduction to event Management, Size & type of event, Event Team, Code of ethics. Principles of event Management, concept & designing. Analysis of concept, Logistics of concept.	10
UNIT II	Feasibility, Keys to success, SWOT Analysis, Leadership, Traits and characteristics. Aim of event, develop a mission, Establish Objectives Preparing event proposal, Use of planning tools	10
UNIT III	Protocols, Dress codes, staging, staffing, event safety and security - Occupational safety, Crowd management.	10
	TOTAL	30

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Understand and classify the concept of event management.

CO2: Relate the principles of event management.

CO3: Assess the keys to success and analyze the SWOT of event managers.

CO4: Estimate the tools in preparation of event proposals.

CO5: Assess and develop the protocols of event managers.

References:

- Judy Allen, (2000), Event Planning, the ultimate guide, 2nd Edition, John Willey & Sons Inc, ISBN: 978-0470155745.
- Meegan Jones, (2017), Sustainable Event Management – A Practical guide, 3rd edition, Routledge, ISBN: 978-1138217621

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e-Learning Resources:

- <https://www.uou.ac.in/sites/default/files/slm/HM-402.pdf>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0
CO1	S	S	S	M	S	M	L	S	M	S
CO2	S	S	S	M	S	M	L	S	M	S
CO3	S	S	S	M	S	M	L	S	M	S
CO4	S	S	S	M	S	M	L	S	M	S
CO5	S	S	S	M	S	M	L	S	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		FOUNDATION COURSE IN – INTERIOR DESIGN								
Course Code		131B1A								
Category	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
FC	I	Y				2	2	25	75	100

Learning Objectives										
To enable the students to :										
Understand the importance of interior design.										
Learn the Qualities, roles and job description of interior designer.										
Understand the specific requirements and desires of the client, considering their lifestyle, budget and personal taste in interiors.										

UNIT	CONTENT	HOURS
UNIT I	Interior design – Definition, Concept, Scope of Interior Design, Elements of design and Principles of design.	5
UNIT II	Interior Designer – Essential qualities and skills required for Interior Designers, Job Description of Interior Designer – Planning layouts, 3D modelling, Building materials and Finishes, Color Schemes, Lighting, Decorations, Landscaping, Furniture design, Furnishings.	10
UNIT III	Interior Design Path – Core and Elective Courses, Practical Sessions, Projects, Internships, Software knowledge, Portfolio making, Communication and Soft Skills.	5
UNIT IV	Interior Design Profession – Interior designer Co-ordinating with Clients, Engineers, Architects and Builders.	5
UNIT V	Interior Design Career –Seeding importance of higher studies and its role in enhancing job opportunities. Residential and commercial building plans, Landscape Garden Designing, Modular Kitchen Designing, Ergonomic Furniture designing, Lighting design, Event Management, Graphic designing, Free-lancing. Startup with their own business-basic knowledge	5
	TOTAL	30

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COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Understand the scope of interior design.

CO2: Identify the qualities and skills required for interior designer.

CO3: Execute the Interior Design path.

CO4: Organizing work with co-workers.

CO5: Building career in interior design.

References:

- Andal. A and Parimalam.P, (2008), “A Text Book of Interior Decoration”, Satish Serial Publishing House.
- Chaudhari, S.N. (2006), “Interior Design”, Aavishkar Publishers, Jaipur.
- Goldstein, (1976), “Art in Everyday Life”, Oxford and IBH Publishing House.

e-Learning Resources:

- <https://www.hamstech.com/scope-of-interior-designing>
- <https://jdinstitute.co/scope-of-interior-designing-in-india/>
- <https://www.shrm.org/resourcesandtools/tools-and-samples/job-descriptions/pages/interior-designer.aspx#:~:text=The%20Interior%20Designer%20will%20create,building%20code%2C%20and%20inspection%20requirements.>
- <https://spextrum.net/whatsnext/?q=YToyOntzOiEY OiJrZXI3b3JkX3R5cGU iO3M6MzoiYWxsIjtzOiQ6InBhZ2UiO2k6OTt9&bmode=view&idx=6167394&t=board#:~:text=An%20interior%20design%20portfolio%20is,or%20hi red%20by%20a%20company.>

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Mapping with Programme Outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO1	S	S	S	M	S	S	L	L	M	S
CO2	S	S	S	M	S	S	L	L	M	S
CO3	S	S	S	M	S	S	L	L	M	S
CO4	S	S	S	M	S	S	L	L	M	S
CO5	S	S	S	M	S	S	L	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		BUILDING FINISHES								
Course Code		131C2A								
Category	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
CC3	II	Y				5	5	25	75	100

Learning Objectives
To enable the students to:
Understand the special care needed for floors, wall, and ceilings.
Gain knowledge on different materials available in the market to increase the strength of a building.

UNIT	CONTENT	HOURS
UNIT I	Wall finishes – Meaning, Structural wall finishes – Cladding - Tiles, Wood, Terracotta and Stone finishes. Applied wall finishes – Glass, Mica, Murals, Fabric and Mirror Wall papers – Kinds of wall papers, Application of wall papers. Metal wall Art and Stencil Art.	10
UNIT II	Paint – Wall Painting requirements - Paint roller, Drop cloths, Paintbrushes, Paint tray, Sandpaper, Painter's tape, Rags and Putty knife. Classification of paints - Water Based (Distemper – Acrylic and Synthetic properties and emulsion – Interior and Exterior) and Oil Based – Uses of oil base painting.	20
UNIT III	Ceiling Finishes – Definition, types, Treatment – plastering, embossing, fresco, glass, false ceilings and other innovative materials.	15
UNIT IV	Floor finishes – Definition, Hard floors - Terrazzo, wood, mosaic, tiles, marble and granite. Semi hard Floors – Vinyl, linoleum, Rubber and cork. Soft Floor Furnishings – PVC, Rubber	15
UNIT V	Wood finishes – Types of hardwood and softwood, Process of varnishing and Characteristics of an ideal varnish. Termite proofing, water proofing, acoustics, thermal comfort, fire protection.	15
	TOTAL	75

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Identify and use the types of structural & applied wall finishes.

CO2: Classify paint finishes and distinguish its application.

CO3: Analyze the different treatments of ceiling finish with innovative materials.

CO4: Compare and select the types of Hard, semi-hard and soft floor finishes.

CO5: Adapt various wood finishes based on its care and maintenance.

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References:

- Clifton.c.etal, (1995), The Complete Home Decorator, Conran octopus Ltd, London.
- Innes,J. (1990), Exterior Detail, Collins and Brown Ltd, London.
- Love.G. (2000), Insideout, Conran octopus Ltd, London.
- Ostrow.J. (2001), Painting rooms, Rockport publishers, USA.
- Spancer, H. and Churchill, (1990), Classic English Interiors, Anaya Publishers Ltd,

e-Learning Resources:

- <http://www.slideshare.net/ELFIndia/wall-finishes-and-wall-patterns>
- <http://www.architecture-student.com/architecture/various-types-of-wall-finishes-interior-design-and-architecture/>
- <http://www.architecture-student.com/architecture/different-types-of-wall-finishes-architectural-design/>
- <https://drc.ohiolink.edu/bitstream/handle/2374.OX/181286/Wall%20Finishes.pdf?sequence=31>
- <http://www.woodfloorsonline.com/products/finishes.html>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	L	L	L	L	M	S
CO2	S	S	S	M	L	L	L	L	M	S
CO3	S	S	S	S	L	M	L	L	M	S
CO4	S	S	S	M	L	M	L	L	M	S
CO5	S	S	S	S	L	M	L	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		RESIDENTIAL SPACE PLANNING (PRACTICAL)								
Course Code		131C21								
Category	Year	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
CC4	II			Y		5	5	40	60	100

Learning Objectives
To enable the students to :
Gain an understanding on tools and techniques of drafting.
Acquire knowledge in planning the room interiors.

UNIT	CONTENT	HOURS
UNIT I	Use of drawing instruments, Types of Lines, Lettering, Dimension and Use of Scales.	10
UNIT II	Technical drawing - Isometric view of simple furniture – Table, Chair, Sofa, Dining table.	15
UNIT III	Furniture arrangement of living room, bedroom, study room, dining and kitchen.	15
UNIT IV	Understanding a building and its interiors in terms of plan, elevation and section.	15
UNIT V	Floor plans for low, middle and high income group. Site plan and its features - Entry/Exit, Building layout, Pathways, Driveways, Parking lots and Landscape features. Vaastu House plan.	20
	TOTAL	75

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: Identify drafting tools and techniques.
- CO2: Demonstrate and Apply technical drawing methods in drafting furniture.
- CO3: Analyze different ways of arranging furniture in a given space.
- CO4: Categorize and estimate the building in terms of plan and elevation.
- CO5: Design floor plans in given area with application of Vaastu.

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References:

- Prabhakar, L.V. (1998), Vasthu – The user's manual, The Avenue press, Chennai.
- Riggs, R. (1992), Materials and components of Interior Design, prentice Hall of India Pvt.Ltd, New Delhi.
- Faulkner. R, and Faulkner. S. (1987), Inside Today's Home, Rinehart publishing company, New York.

e-Learning Resources:

- <http://www.aboutcivil.org/site-selection-for-residential-buildings.html>
- http://www.housingeducators.org/Journals/H&S_Vol_24_No_3_Space_Planning_in_Residential_Design.pdf&
- <http://dlpotts.iweb.bsu.edu/arch263/310files/310-reading2-trends.pdf>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	S	S	L	L	M	S
CO2	S	S	S	M	S	S	L	L	M	S
CO3	S	S	S	M	S	S	L	L	M	S
CO4	S	S	S	M	S	S	L	L	M	S
CO5	S	S	S	M	S	S	L	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		FRONT OFFICE MANAGEMENT								
Course Code		131E2A								
Category	Year I	L	T	P	O	Cred its	Inst Hrs	Marks		
	Sem							CIA	External	Total
EC2	II	Y				3	4	25	75	100

Learning Objectives										
To enable the students to :										
Understand the layout and functions of front office department.										
Know the organization structure of front office and their roles.										
Acquire skills and qualities that improve relation and service to guests										

UNIT	CONTENT	HOURS
UNIT I	Introduction to front office –Importance of Front Office, Layout of front office, Organization structure of front office in small and large hotel, Front office equipment.	10
UNIT II	Areas and Functions of Front office – Reservation, Reception, Telecommunication, Guest relation Desk, Front office Cashier, Front office co-ordination with other departments – Lobby, Housekeeping, Interior Decoration, Engineering, Food and Beverage.	15
UNIT III	Ideal Qualities of front office staff , Ongoing responsibilities of front office department- Manager, Assistant manager, Supervisor, attendants and front office cashier, Inter departmental communication.	10
UNIT IV	Essentials of Front office personnel – Guest service – Understanding guest service, components of good service – work ethics, customer needs and wants – physiological, security, belonging, self-actualization, status and self-esteem.	10
UNIT V	Personnel management - definitions, recruitment, induction, training, personal record-HRIS, Benefits of HRIS, Improving HR productivity. Uniformed services – duties performed in Lobby desk, Concierge, Bell desk, Transport services, Doorman, Valet parking attendant.	15
	TOTAL	60

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Understand the importance, layout and necessary equipment in front office department.

CO2: Apply the services provided in various areas of front office in a hotel.

CO3: Analyze the duties of front office personnel.

CO4: Appraise the essential qualities of front office personnel in guest service.

CO5: Develop Front office personnel management through HRIS.

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References:

- Austin, M. et al (2008), Professional Front Office management, New Delhi: Dorling Kindersley Publication
- Ismail, A (2005) Front Office – Operations and Management, Singapore: Thomson Delmar Publications
- Khan, M. A (2005), Front Office, New Delhi: Anmol Publications
- Negi, J. et. al (2011), Reception and Front Office Management, New Delhi; Kanishka Publications
- Subban, T.R (2008), Front Office Management, New Delhi: Cyber Tech Publications.

e-Learning Resources:

- http://uru.ac.in/uruonlinelibrary/Hospitality_Management/Hotel%20Front%20Office%20Management%203rd%20Edition%20-%20John%20Wiley%20and%20S.pdf
- [https://www.ihmbbs.org/upload/5\)%20Front%20Office%20organisation.pdf](https://www.ihmbbs.org/upload/5)%20Front%20Office%20organisation.pdf)
- [http://cbseacademic.nic.in/web_material/Curriculum/Vocational/2018/FRONT%20OFFICE%20OPERATIONS%20XII%20\(753-754\)/FRONT%20OFFICE%20OPERATIONS%20\(753\).pdf](http://cbseacademic.nic.in/web_material/Curriculum/Vocational/2018/FRONT%20OFFICE%20OPERATIONS%20XII%20(753-754)/FRONT%20OFFICE%20OPERATIONS%20(753).pdf)
- <http://elearning.nokomis.in/uploaddocuments/Front%20office%20operations/chp%201%20Introduction%20to%20Front%20Office/PPT/Chapter%201%20-%20Introduction%20to%20Front%20Office.pdf>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	L	L	L	L	M	S
CO2	S	S	S	M	L	L	L	L	M	S
CO3	S	S	S	M	L	L	L	S	S	S
CO4	S	S	S	M	L	L	L	M	M	S
CO5	S	S	S	M	L	L	L	S	S	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		ACCESSORIES								
Course Code		131S2A								
Category	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
SEC-2	II	Y		Y		2	2	25	75	100

Learning Objectives
To enable the students to :
Learn proper utilization of various kinds of accessories in interiors.

UNIT	CONTENT	HOURS
UNIT I	Accessories - Definition and importance in interiors, Classification – based on Utility – Functional & Decorative, Size – Minor & Major, Area – Living room, Bedroom, Study area, Bathroom. Factors influencing the selection of accessories, Arrangement of accessories with application of art principles.	5
UNIT II	Kinds of accessories - Decorative - mural, photographs, pictures, artifacts, drawings, antiques and Functional - books, Mirror, Clock, Accent furniture, indoor plants and flower arrangement as accessories.	5
UNIT III	Art and Crafts – definition, kinds of art and crafts-pot painting, idols, sculptures, glass painting, wall hanging, pillows, cushions, pebble art, shell art, folk arts, Metal Art, Stencil Art and crafts.	10
	PRACTICALS: a. Create functional and decorative accessories b. Accessories - Recycle and reuse	10
	TOTAL	30

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: Understand the significance of accessories.
CO2: Classify accessories and its uses in interiors.
CO3: Distinguish various folk art styles in interiors.
CO4: Criticize various Kinds of art forms used as accessories.
CO5: Develop interior accessories using recycled materials.

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References:

- PremavathySeetharaman and ParveenPannu, (2009). Interior Design and Decoration. CBS Publishers and Distributors Pvt Ltd. New Delhi.
- Andal. AandParimalam.P, (2008). A Text Book of Interior Decoration. Satish Serial Publishing House.

e-Learning Resources:

- ☐ <https://wbdg.org/ccb/AF/AFDG/interior.pdf>
- ☐ <http://download.nos.org/sec225new/Lesson-4.pdf>
- ☐ http://www.archive.india.gov.in/knowindia/culture_heritage.php?id=99

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	S	S	L	L	M	S
CO2	S	S	S	M	S	S	L	L	M	S
CO3	S	S	S	M	S	S	L	L	M	S
CO4	S	S	S	M	S	S	L	L	M	S
CO5	S	S	S	M	S	S	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		HANDICRAFT								
Course Code		131S2B								
Category	Year I	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
SEC- 3	II	Y		Y		2	2	25	75	100

Learning Objectives
To enable the students to :
Get acquainted with crafts and traditions of India and acquire Practical knowledge.

UNIT	CONTENT	HOURS
UNIT I	Handicraft : Definition, craft traditions of India and its cultural significance, role of Handicraft in Indian economy, Kinds of handicrafts in India	5
UNIT II	Handicraft material , product and process Different kinds of handicraft materials, handicraft techniques (painting, Printing, dyeing, weaving, crocheting)	5
UNIT III	Handicrafts traditions of TamilNadu: Clay craft, leather craft, palm craft, doll craft, stone craft, betel craft, bamboo craft and metal craft	10
	PRACTICALS: a. Preparation of handicraft product with traditional techniques learnt in theory. b. Exhibition cum sales at college premises of the prepared product.	10
	TOTAL	30

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Identify traditional crafts of India.

CO2: Classify various craft materials.

CO3: Compare and organize craft items in interiors.

CO4: Criticize the craft process and techniques.

CO5: Design new products for craft revival and income generation.

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References:

- Nandhita Krishna (1999) Arts and crafts of TamilNadu (Living traditions of India) Grantha Corporation,
- Andal. AandParimalam.P, (2008). A Textbook of Interior Decoration. Satish Serial Publishing House.
- RanjanAditi (2009), Handmade in India, Crafts of India, Mapin Publishing House

e-Learning Resources:

- ☐ <https://prepp.in/news/e-492-indian-handicrafts-art-and-culture-notes>
- ☐ <https://prepp.in/news/e-492-metal-crafts-indian-handicrafts-art-and-culture-notes>
- ☐ <http://www.handicrafts.nic.in/themecrafts/ThemeCrafts.aspx>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	S	S	L	L	M	S
CO2	S	S	S	M	S	S	L	L	M	S
CO3	S	S	S	M	S	S	L	L	M	S
CO4	S	S	S	M	S	S	L	L	M	S
CO5	S	S	S	M	S	S	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		LIGHTING AND ACCESSORIES								
Course Code		231C3A								
Category	Year II	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
CC5	III	Y				5	5	25	75	100

Learning Objectives										
To enable the students to:										
Gain an understanding of the importance and functional value of lighting & accessories in interiors.										
Apply, create and study the functional and decorative values of lighting & accessories in interiors.										
Acquire knowledge in the folk arts and crafts of India.										

UNIT	CONTENT	HOURS
UNIT I	Lighting - Definition – Objectives – Functions and Importance of lighting. Types of lighting - Natural and Artificial lighting. Methods of lighting - direct, semi-direct, In-direct, semi-indirect and diffused lighting.	10
UNIT II	Lighting accessories – Selection of lamps and lamp shades. Lighting fixtures – Structural lighting, Free-standing or portable - Table lamp, Floor lamp, standard lamp fixtures and office task light luminaries.	20
UNIT III	Accessories - Definition and importance in interiors, Classification – functional, decorative and both accessories. Factors influencing the selection of accessories, Placement, location and background for accessories.	15
UNIT IV	Kinds of accessories - Decorative - mural, photographs, pictures, artifacts, drawings, antiques and Functional - books, Mirror, Clock, accent furniture, indoor plants and flower arrangement as miscellaneous accessories.	15
UNIT V	Art and Crafts – definition, kinds of art and crafts-pot painting, idols, sculptures, glass painting, wall art, wall hanging, pillows, cushions, pebble art, wood art, shell art, origami, models, lamps and vases, baskets, doll making, bamboo crafts, folk arts and crafts of India. Application of arts and crafts in interiors.	15
	TOTAL	75

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Describe the importance of selection and arrangement of accessories.

CO2: Classify and apply arts and crafts in interiors.

CO3: Compare the types of lighting accessories

CO4: Discuss lighting and select the appropriate lighting in interiors.

CO5: Identify different kinds of accessories and utilize them in interiors appropriately.

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References:

- Barbara Moreau, (2023) Interior Design 101: A Beginner's Guide to Transforming Your Home ISBN: 9798890747044 E Book.
- V. Ramesh Babu, S. Sundaresan, (2018) Home Furnishing, WPI India Publisher, ISBN: 9781351186216, 1351186213 E Book
- Eagle moss Publications Ltd, (1996). Creating your Home, Creative Flowers & Plants for Your Home.
- Eve Harlow, (1995). The Book of Handicrafts for all the Family. Honeywood Publishing Limited.
- Harriet Goldstein & Vetta Goldstein, (Fourth Edition, 1988). Art in Everyday Life. Oxford & IBH Publishing CO.
- Premavathy Seetharaman & Parveen Banu, (2001). Interior Design & Decoration. CBS publishers.

e-Learning Resources:

- ☐ <http://www2.ca.uky.edu/HES/fcs/FACTSHTS/HF-LRA.095.PDF>
- ☐ <http://www.interiordezine.com/wp-content/uploads/2013/09/Part-5-Styles-Periods-and-Design-History.pdf>
- ☐ <http://www.home-designing.com/category/accessories>
- ☐ <https://wbdg.org/ccb/AF/AFDG/interior.pdf>
- ☐ <http://download.nos.org/sec225new/Lesson-4.pdf>
- ☐ http://www.archive.india.gov.in/knowindia/culture_heritage.php?id=99

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	c	M	M	M	L	L	M	S
CO2	S	S	S	M	M	M	L	L	M	S
CO3	S	S	S	S	M	M	L	M	M	S
CO4	S	S	S	M	M	M	L	M	M	S
CO5	S	S	S	S	S	M	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded off) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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INTERIOR DESIGN AND DECOR
SYLLABUS WITH EFFECT FROM 2023-2024

Title of the Course		BASICS OF AUTOCAD								
Course Code		231C3B								
Category	Year II	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
CC6	III	Y		Y		5	5	25	75	100

Learning Objectives										
To enable the students to :										
Learn the basic skills of drafting 2D floor plans in CAD.										
Apply AutoCAD tools in designing exterior and interior of a building.										

UNIT	CONTENT	HOURS
UNIT I	Overview of AutoCAD – Purpose, Need, Uses and Applications, General commands – New, Open, Save, Save as, Close and Exit a drawing in AutoCAD, AutoCAD screen components – Title bar, Menu bar, Standard tool bar, Object Properties tool bar, Draw toolbar, Modify tool bar, UCS, Layout tab, Command Window and Status bar.	15
UNIT II	Point fixing methods – Direct method, Absolute Coordinate system, Relative Coordinate system and Polar Coordinate system, Setting up the drawing environment - setting Units, Limits and Paper size, Control Zoom and Pan commands.	15
UNIT III	Working with Drawing Aids – Grid, Snap, Ortho, Osnap, Polar Tracking, Object Snap Tracking, Dynamic Input and Object properties – Colour, Line Type and Line Weight, Use of function keys and shortcut keys.	10
UNIT IV	Draw tools – Line, Plane, Rectangle, Arc, Circle, Polygon, Ellipse and Spline, Text – Style, Mtext, Text edit and Layer concept.	10
UNIT V	Modify tools – Erase, Copy, Move, Scale, Rotate, Mirror, Offset, Chamfer, Fillet, Trim, Extent, Stretch, Array, and Break, Object selection methods.	10
	Practicals: Creating Line, Circle, Arc, Ellipse, Rectangle, and Polygon using different methods. Creating text using text style, text edit, line type & line weight Creating a simple 2D plan.	15
	TOTAL	75

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COURSE OUTCOMES

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

- CO1. Understand the significance, configuration and working requirements of AutoCAD software.
- CO2. Illustrate the point fixing methods in AutoCAD
- CO3. Apply drawing aids in working.
- CO4. Criticize the draw tools in a drawing.
- CO5. Design and develop plans using the modify tools.

References

- Sandeep Dogra (2022). AutoCAD 2022: A Power Guide for Beginners and intermediate users, CADArtifex Publishers.
- CAD Folks (2020), AutoCAD 2021 Beginners Guide. Independently Published, ISBN: 9798634102023
- Yasser Shoukry and Jaiprakash Pandey (2020), Practical Autodesk AutoCAD 2021 and AutoCAD LT 2021, Packt Publishing, ISBN: 9781789803761, 1789803764
- Sham Tickoo, Anurag, (2013). AutoCAD 2013. Cad Soft Technologies, Dreamtech Press, New Delhi.
- Sham Tickoo, D.Saravanan, (2010). AutoCAD 2010. Cad Soft Technologies, Dreamtech Press, New Delhi.
- David Frey, (2000). AutoCAD 2000.
- Gokulachari, (Second Edition, 2008). CAD in Civil Engineering Drawing Practice I.
- K.Venugopal, (Third Edition, 1998). Engineering Drawing with AutoCAD. New Age International (P) Limited.
- Ilangoan, (Sep 1999). Engineering Drawing with AutoCAD.

e-learning resources

- ☐ https://www.google.co.in/books/edition/AutoCAD_2022_A_Power_Guide_for_Beginners/F9QxEAAQBAJ?hl=en&gbpv=1&dq=autocad+books+for+beginners&printsec=frontcover
- ☐ www.cad-notes.com/autocad-articles/
- ☐ <https://knowledge.autodesk.com>
- ☐ www.cadforum.cz/cadforum_en/default.asp
- ☐ www.archblocks.com
- ☐ <http://www.mycadsite.com/tutorials/>

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Mapping with Programme Outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	P O6	PO 7	PO 8	P O9	PO 10
CO1	S	S	S	M	S	S	M	M	M	S
CO2	S	S	S	M	S	S	M	M	M	S
CO3	S	S	S	M	S	S	M	M	M	S
CO4	S	S	S	M	S	S	M	M	M	S
CO5	S	S	S	M	S	S	M	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

SYLLABUS WITH EFFECT FROM 2023-2024

UNIT	CONTENT	HOURS
UNIT I	Application of art principles in Surface Enrichment of fabrics – Harmony, Balance, Rhythm, Emphasis Proportion. Application of principles of colour in surface enrichment of fabrics – Hue, Value and Intensity.	10
UNIT II	Fabric Painting – Definition, Equipment used, Preparation of Fabric for painting. Painting Techniques – Brush strokes, Splashing, spraying, Tie & Dye, and Stencil.	10
UNIT III	Embroidery – Equipment/ Tools used, methods of transferring designs on fabric. Basic embroidery stitches – Classification of embroidery stitches - Outline Stitches: Running, Back, Stem, Looped Stitches: Chain, Blanket, Lazy daisy, Feather, Knot Stitches: French Knot, Bullion Knot, Flat Stitches: Satin, Long and short, Catch Stiches: Herringbone, Couching and Cross Stich. (Utility of above-mentioned stitches).	10
UNIT IV	Hand Methods of Printing – Block printing: preparation of fabric, preparation of table and color pad, techniques, Tie & Dye techniques: Knotting, Marbling, Binding, Sewing, Dabu, Batik: preparation of wax, selection of tjanting tool, techniques, Ikat, Stencil Printing, preparation of fabric, preparation of stencil, techniques.	10
UNIT V	Surface Embellishment - Applique, cut work, Quilting, Bead work, Sequin work, Mirror work, Kundan/Stonework, Glitter Art.	10
	PRACTICAL a) Prepare samples of fabric painting using different techniques. b) Make samples of basic embroidery weaves. c) Application of cross stitch on a wall hanging. d) Prepare samples for tie and dye, batik, block printing and stencil printing. e) Prepare samples for various methods of surface embellishments. f) Application of any one surface embellishment on a kurti.	10
	TOTAL	60

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SYLLABUS WITH EFFECT FROM 2023-2024

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: Understand and relate the art principles in an effective way in surface embellishment of fabrics.
- CO2: Identify the appropriate technique of fabric painting in terms of fabric and utility.
- CO3: Apply basic and decorative embroidery stitches in designing fabrics.
- CO4: Evaluate and select the appropriate method of hand printing.
- CO5: Create an exhibit or a decorative item using the appropriate surface embellishment technique.

References:

- Marian Jazmik, (2021). Textures from Nature in Textile Art, London
- Susan Stein, (2010). The complete photo guide to textile art, Creative publishing International Inc. Quayside Publishing Groups, China
- Shailaja D.Naik, (1997). Folk embroidery and handloom weaving, A.P.H.Publishing
- Ryan, (1995). The Complete Encyclopedia of Stitches, Adams Media Corporation Holbrook.
- Bernard.P.Corbman, (1983)Textiles-Fibre to Fabric,McGraw-Hill.Corporation,NewYork.
- Mathews. M (2005), Practical Clothing Construction, Part 1 & 2, Cosmic Press, Chennai.

e-Learning Resources:

- ☐ <https://www.craftsvilla.com/blog/famous-indian-embroidery-styles/>
- ☐ <https://www.iloencyclopaedia.org/component/k2/item/880-cotton-yarnmanufacturing>
- ☐ <https://www.slideshare.net/hemaupadhayay/traditional-embroideries-of-india-76836145>
- ☐ <http://www.india-crafts.com/articles/block-printing-in-india.html>
- ☐ <https://study.com/academy/lesson/how-is-cad-cam-used-in-textiles.html>

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	L	S	M	S	S	S	S
CO2	S	S	S	L	S	M	S	S	S	S
CO3	S	S	S	L	S	M	S	S	S	S
CO4	S	S	S	L	S	M	S	S	S	S
CO5	S	S	S	L	S	M	S	S	S	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded off) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		DECORATIVE STYLES								
Course Code		231S3A								
Category	Year	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
SEC: 4	III	Y				1	1	25	75	100

Learning Objectives
To enable the students to :
Understand the needs of styles in interiors in various aspects.
Develop a conceptual understanding of the Interior Design field.

UNIT	CONTENT	HOURS
UNIT I	Classic-Modern Styles – Concept and Characteristic features of Retro style, Bohemian style, Rustic Style and Vintage Style – Boho, Punk, Country, Coastal and Atomic age.	5
UNIT II	Modern styles - Luxury, Minimalist, Scandinavian, Shabby Chic, Industrial, Farmhouse and Coastal.	5
UNIT III	Styling of a House - Individual House - Bungalow/Duplex, Twin House and Prefabricated House. Flats - Importance of Amenities in gated Community.	5
	TOTAL	15

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Understand the characteristics and aesthetic features in various styles of interiors.

CO2: Classify and distinguish decorative styles in interiors.

CO3: Analyze the styles of a house in interiors styling steps in interior rooms.

CO4: Compare and Summarize the different Classic and modern styles in interiors.

CO5: Choose and organize an appropriate style of interiors to satisfy customer needs.

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References:

- Emily Henderson (2015), Styled: Secrets for Arranging Rooms, from Table tops to Bookshelves. Random House LLC
- Lauren Liess (2015), “Habitat: The Field Guide to Decorating” Abrams, New York.

e-Learning Resources:

- ☐ <https://www.thespruce.com/modern-architecture-4797910>
- ☐ <https://www.2020spaces.com/blog-interior-design-styles/>
- ☐ <https://foyr.com/learn/types-of-interior-design-styles/>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	L	L	L	M	L	M	S
CO2	S	S	S	L	L	L	M	L	M	S
CO3	S	S	S	L	L	L	M	L	M	S
CO4	S	S	S	L	L	L	M	M	M	S
CO5	S	S	S	L	L	L	M	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to Pos	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		FREE HAND SKETCHING								
Course Code		23IS3B								
Category	Year II	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
SEC: 5	III	Y		Y		2	2	25	75	100

Learning Objectives
To enable the students to:
Acquire basic knowledge of drawing and sketching exercises.
Draw different types of design, develop design by using motifs.

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	Design and Introduction to model making: Need, role of scale models in design, Ceramic designs, stained glass design, grill design.	10
UNIT III	Standards & Conventions, Construction Lines, Proportions Drawing types - Diagramming, Geometric Modeling.	10
	TOTAL	30

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Understand the concept of drawing and sketching and know the basic material and mediums used for sketching.

CO2: Describe the Role and scope of scale models in design.

CO3: Sketch designs for ceramic, glass and grills.

CO4: Compare diagramming and geometric modeling techniques in design.

CO5: Develop Standards and conventions in drawing design.

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SYLLABUS WITH EFFECT FROM 2023-2024

References

- Maria Dolores RosFrijoa, The Art and Craft of ceramics: Techniques, projects, Inspiration, Lark books, 2006.
- Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, Wiley publishers, 2007
- Mogali Delgado Yanes and Ernest Redondo Domínguez, Freehand drawing for Architects and Interior Designers, Wiley Norton & co., 2005
- Shah, M.G., Kale, C.M. and Patki, S.Y. Building Drawing: with an integrated approach to built environment, 7th ed. Tata McGraw Hill Pub., Delhi, 2000.
- Susan Bruce, (2000). The Art of hand-built ceramics, Crowood Press

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	M	M	L	L	M	S
CO2	S	S	S	M	M	M	L	L	M	S
CO3	S	S	S	S	M	M	S	M	M	S
CO4	S	S	S	M	M	M	L	L	M	S
CO5	S	S	S	M	M	M	L	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		FURNISHINGS IN INTERIORS								
Course Code		231C4A								
Category	Year II	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
CC7	IV	Y		Y		5	4	25	75	100

Learning Objectives
To enable the students to:
Make a wise choice in the selection of fabric for furnishings.
Draft and construct furnishings used in interior spaces.
Know about the types, care and maintenance of furnishings used in interiors.

UNIT	CONTENT	HOURS
UNIT I	Selection of Fabrics in Interior Design: Importance, Factors to be considered in the selection of fabric for furnishings, Types of fabric used in interiors. Steps involved in fabric preparation. Methods of transferring pattern markings onto the fabric. Methods of Drafting - Curtains, Draperies, Pillow Covers, Slip Covers and Cushion Covers.	10
UNIT II	Construction of furnishings: Selection, Use and Care of Sewing machine and sewing tools. Study of Basic hand stitches – Temporary-Even basting, Uneven basting and Hemming - Permanent – Running, Back, Over cast, Over hand, Whip and Slip. Seams and Seam finishes	10
UNIT III	Window Treatments – Hard window treatment – Blinds, Shutters, Screens, Panels, Shades and Curtains. Soft window treatment - Curtains and Draperies. Styles of hanging Curtains – Tie- Backs, Café, Ruffles, Tier. Decorative curtain heads – Valence, Cornice, Swags and Cascade.	10
UNIT IV	Soft furnishings – Importance, types, uses, care and maintenance of soft furnishings. Carpets and Rugs – Types based on construction– Woven, Knotted and Tufted.	10
UNIT V	Traditional fabrics and interiors – History, method of construction, designs, colours and uses of Brocade, Jamdani, Chanderi, Damask and Kancheevaram in interiors.	10
	PRACTICAL Basic hand stitches. Seams and Seam finishes Construction of different types of Curtains. Construction of Pillow and Cushion Covers. Styles of hanging curtains Prepare an album on the traditional fabrics used in interiors.	10
	TOTAL	60

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COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Outline the factors to be considered in the selection of fabric for furnishings.

CO2: Describe the methods of drafting and construction of various furnishings.

CO3: Identify and list out the various soft furnishings used in interiors and ways of maintaining them.

CO4: Explore the hard and soft window treatments for interiors.

CO5: Summarize the history, construction and uses of traditional fabrics in interiors.

References:

- Wilhelmine Van Aerssen, Chris Halsey (2017), From Fibre to Fabric, The Ultimate Guide to Soft Furnishings, Clearview books publisher.
- Wendy Baker · (2009), Complete Book of Curtains, Drapes and Blinds Design Ideas for Every Type of Window, Treatment, Pavilion Books Publishers. ISBN:9781843405054, 1843405059
- Philips B, (2000). Hamlyn book of decorating, Octopus publishing Ltd, London.
- Clifton.C. et al (1991). The complete Home decorator, Conran Octopus Ltd, London.
- Luke. H., (1996). Soft furnishings, New Holland Publishers Ltd, Singapore.
- Wilhide,E and Copestick,I. (2000). Contemporary decorating, Conran Octopus Ltd., London.
- Levine M (1998). Living rooms, Rockport publishers, USA.
- Mary Mathews, (1996). Practical Clothing Construction, Part I and Part II, Cosmic Press.
- Mehta, R.J, (1970) “Masterpieces of Indian Textiles”, B.B Taraporewala& Sons Pvt. Ltd, India.
- Pizzuto’s. J.J (2010), “Fabric Science”, 9th Edition, Fairchild Books, U.S.A.

e-Learning Resources:

- <http://gpktt.weebly.com/classification-of-textile-fibers.html>
- https://textilelearner.blogspot.com/2011/05/definition-and-classification-of-fiber_41.html
- <https://www.thesprucecrafts.com/sew-simple-custom-curtains-2977596>
- <http://ncert.nic.in/vocational/pdf/ivsm104.pdf>
- <https://www.thespruce.com/basic-types-of-window-treatments-for-bedrooms-350468>
- <https://www.homeonline.com/hol/home-tips/10-tips-to-care-for-your-soft-furnishings.html>
- https://aces.nmsu.edu/pubs/_g/G402.pdf

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Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0
CO1	S	S	S	L	S	M	S	S	S	S
CO2	S	S	S	L	S	M	S	S	S	S
CO3	S	S	S	L	S	M	S	S	S	S
CO4	S	S	S	L	S	M	S	S	S	S
CO5	S	S	S	L	S	M	S	S	S	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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SYLLABUS WITH EFFECT FROM 2023-2024

Title of the Course		COMPUTER AIDED DESIGN - PRACTICAL								
Course Code		231C41								
Category	Year II	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
CC8	IV			Y		5	4	40	60	100

Learning Objectives

To enable the students to :

Learn and implement the advance drafting techniques in drawing 2D plans in CAD.

Create 3D View of simple objects and furniture.

Design room interiors in 3D with material application

UNIT	CONTENT	HOURS
UNIT I	Dimensions – Linear, Align, Angular, Radius, Diameter, Baseline, Continue, Leader. Dimension edit, Dimension styles – Lines and Arrow tab, Fit tab, Primary Units, Alternate Units, and tolerances. To create and insert Blocks and Block edit. Hatch and Gradient. Applying Dimensions, Layers, Hatch and Gradient in 2D plans.	10
UNIT II	Solid Model -Creating 3D solids using standard primitives like Box, Wedge, Cylinder, Sphere, Cone, Torus, and Pyramid. Designing Chair, Bed, Sofa, Table, Roof structures using Solid primitives	15
UNIT III	Boolean operations - Union, Subtract and Intersect. 3D Operations - Extrude, Loft, Revolve, Sweep. Create Door and Window openings, Furniture with complex shapes and designs using Boolean operations and 3D operations.	15
UNIT IV	Materials – Flooring, Wall finishes, Fabric, Plastic and Metal. Create new materials from the existing material browser. Applying the materials to the different room interiors like Living room, Bedroom, Dining room, Study room and Kitchen.	10
UNIT V	Setting Background image to 3D model. Camera tool – Setting Camera to create different views and walkthrough of the interior and exterior of the building models	10
	TOTAL	60

COURSE OUTCOMES

After successful completion of the course the student will be able to:

CO1. Identify the advanced tools used for 2D drafting of house plans.

CO2. Distinguish the significance of 3D models of objects over 2D drafting.

CO3. Devise design using Boolean operations.

CO4. Compare the materials using 3D tools for different areas.

CO5. Compose interior viewing using camera tools.

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References:

- [Randy Shih](#) (2015) AutoCAD 2016 Tutorial Second level 3D Modeling, SDC Publications
- Sham Tickoo, Anurag, (2013). AutoCAD 2013. Cad Soft Technologies, Dreamtech Press, New Delhi.
- Sham Tickoo, D.Saravanan, (2010). AutoCAD 2010. Cad Soft Technologies, Dreamtech Press, New Delhi.
- David Frey, (2000). AutoCAD 2000.
- Gokulachari, (Second Edition, 2008). CAD in Civil Engineering Drawing Practice I.
- K.Venugopal, (Third Edition, 1998). Engineering Drawing with AutoCAD. New Age International (P) Limited.
- Ilangoan, (Sep 1999). Engineering Drawing with AutoCAD.

e-Learning Resources:

- ☐ www.cad-notes.com/autocad-articles/
- ☐ <https://knowledge.autodesk.com>
- ☐ www.cadforum.cz/cadforum_en/default.asp
- ☐ www.archblocks.com
- ☐ <http://www.mycadsite.com/tutorials/>

Mapping with Programme Outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO1	S	S	S	M	S	S	L	M	S	S
CO2	S	S	S	M	S	S	L	M	M	S
CO3	S	S	S	M	S	S	L	M	M	S
CO4	S	S	S	M	S	S	L	M	M	S
CO5	S	S	S	M	S	S	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PO1	PO2	PO3	PO4	PO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		BUILDING SERVICES								
Course Code		231E4A								
Category	Year II	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
EC4	IV	Y				3	4	25	75	100

Learning Objectives
To enable the students to:
Gain an understanding on various services required for the proper functioning of the buildings.
Learn the standards to be followed in designing buildings.

UNIT	CONTENT	HOURS
UNIT I	Introduction to building services – importance, concept, Kinds of services. Plumbing services – Need, Purpose and general guidelines in designing plumbing system. Types of pipes – Waste water pipe, Soil pipe and vent pipe. Traps – requirements and types. Sanitary apparatus – Wash basin, Sink, Bath tub, Urinal, Water closet and Flushing cistern. Methods of plumbing system – one pipe system and two pipe system.	10
UNIT II	Electrical services – Single phase and three phase supply. Wiring systems – Cleat wiring, batten, concealed wiring, Casing wiring and Conduit wiring. Electrical switches and sockets. Need and purpose of earthing system. Causes and prevention of Electrical fires.	15
UNIT III	Ventilation system – Definition, need and purpose. Types - Natural ventilation – general rules followed in natural ventilation, Mechanical ventilation – Air Conditioning system – Components, working principle and types. Function of heating ventilation air conditioning (HVAC) and Air Heating Unit (AHU).	10
UNIT IV	Fire Safety - Definition and causes of fire. Classification of fire. Safety devices - Smoke detectors, Alarm system, Sprinkler system, Portable fire extinguisher, Fire hydrants and Wet riser. Fire resisting materials for buildings.	10
UNIT V	Mechanical services – Lifts and Escalators – Parts, working principle and types. Building Bye laws - Definition, Purpose, and technical terms – Carpet area, Built up area, set back, Floor Space Index (FSI). Requirements for Entry/Exit, Staircase, Open space, Building height and different rooms of a building.	15
	TOTAL	60

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COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Understand the general principles in providing plumbing system for building.

CO2: Examine the requirements for electrical supply and distribution system.

CO3: Discuss the role of ventilation and its types.

CO4: Explain the concept of Fire safety in designing the buildings

CO5: Relate the building bye laws and standards.

References:

- A.S.Panchdhan, (Second Edition 2000). Water Supply and Sanitary Installations. New Age International (P) Ltd.
- Dr. B.C. Punmia, Ashok Kumar Jain & Arun Kumar Jain, (Tenth edition). Building Construction. Laxmi Publications (P) Ltd.
- P.C. Varghese, (May 2013). Building Construction, PHI Learning Private Limited.
- Rangwala, (Thirty Eighth Edition, 2011). Engineering Materials (Material Science), Charotar Publishing House Pvt Ltd, Anand.
- S.S. Bhavikatti, (2012). Building Construction, Vikas Publishing Home Pvt Ltd.

e-Learning Resources:

- <https://www.wbdg.org/design-objectives/secure-safe/fire-protection>
- <http://www.level.org.nz/water/wastewater/drainage-systems/>
- http://www.ecs.umass.edu/ece/hollot/ECE497DS06/ESD_1.pdf
- <http://mohua.gov.in/upload/uploadfiles/files/Chap-4.pdf>
- <https://www.cedengineering.com/userfiles/Building%20Elevators.pdf>
- <http://tzb.fsv.cvut.cz/files/vyuka/125bes1/prednasky/125bes1-02.pdf>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	L	L	M	M	M	S
CO2	S	S	S	M	L	L	M	M	M	S
CO3	S	S	S	M	L	L	M	M	M	S
CO4	S	S	S	M	L	L	M	M	M	S
CO5	S	S	S	M	L	L	M	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded off) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		VISUAL MERCHANDIZING								
Course Code		231S4A								
Category	Year II	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
SEC - 6	IV	Y				2	2	25	75	100

Learning Objectives
To enable the students to:
Understand the concept of Visual Merchandising.
Analyze the merchandising techniques used.
Analyze current trends and forecast future trends in merchandising.

UNIT	CONTENT	HOURS
UNIT I	Fundamentals of Visual Merchandising - Visual Merchandising - Introduction, Objectives, Techniques, and Store exteriors - store signs, façade, banners, planters, signage and awnings.	12
UNIT II	Display - Types of display- Window Display - Meaning and Scope, Promotional Display Vs. Institutional Display, Window Display - Construction. Art principles in arrangement of display.	10
UNIT III	Merchandise Presentation – Concept and its Principles, Dominance Factor in Merchandise Presentation, Cross Merchandising.	8
	TOTAL	30

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: Identify Visual merchandising and retailing.
- CO2: Classify and assess the different types of display.
- CO3: Compare the materials and its purpose in planning fixtures.
- CO4: Appraise and recommend Merchandise presentation.
- CO5: Justify and anticipate the current trend and follow SOPs.

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References:

- Ebster Clause, Garaus Marion (2015), Store Design and Visual Merchandising, Second Edition, Business Expert Press
- Levy, Michale & Barton A. Weitz (2009). Retailing Management. Tata McGraw Hill.
- Morgan Tony (2010), Window Display: New Visual Merchandising, Laurence King Publishing
- Murugan (2018), Retail Marketing, Thakur Publication.
- Pradhan Swapana (2009). Retailing Management. Tata McGraw Hill.
- Swati Bhalla and Anurag S (2010). Visual Merchandising. Tata McGraw Hill.

e-Learning Resources:

- <http://www.slideshare.net/dianhasan/iiscm-retail-innovation-seminar-jakartaapril-8-2011>
- www.businessdictionary.com/definition/visual-merchandising.html
- www.managementstudyguide.com/visual-merchandising.html
- www.rmservicing.com/articles/what-is-visual-merchandising

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	L	L	S	M	L	L	S
CO2	S	S	S	L	L	S	M	L	L	S
CO3	S	S	S	L	L	S	M	L	L	S
CO4	S	S	S	L	L	S	M	L	L	S
CO5	S	S	S	L	L	S	M	L	L	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		COMPUTER APPLICATIONS IN HOME SCIENCE								
Course Code		231S4B								
Category	Year II	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
SEC: 7	IV	Y				2	2	25	75	100

Learning Objectives
To enable the students to :
Understand the application of computer in various disciplines of Home Science.
Know the features of Google Sketch Up in Interior Design.
Explore the benefits of computer applications in the field of research.

UNIT	CONTENT	HOURS
UNIT I	General commands - Creating and opening a file, Steps in creating a folder and saving a file in the destined folder. MS Office Package - Software in MS Office package, creating a document using MS Word, preparing slide presentation using MS Power Point. Making Graphs and Charts using MS Excel.	4
UNIT II	Computer Application in Space planning - Application for preparing Plan, Need for rendered views in design. Creating 3D models and 3D views using software.	10
UNIT III	Computer Application in Nutrition - Software package for nutrition education and diet counselling - Nutritive value of food items, Nutritional analysis, Meal planning and recipes.	5
	TOTAL	30

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: Recall the features of MS Office package.
- CO2: Understand the application of Google Sketch UP for design.
- CO3: Explain computer applications in the field of Nutrition.
- CO4: Compare and apply design using computer.
- CO5: Create Google forms for data collection.

References:

- AutoCAD 2018 for Novices (Learn By Doing), [CAD Soft Technologies](#).
- CAD Practical Skills in Textile Technology and Design (TTD), [Patience Chitura](#), 2020.
- Microsoft Office 365 for Beginners 2022: [8 in 1] The Most Updated All-in-One Guide from Beginner to Advanced | Including Excel, Word, PowerPoint, OneNote, OneDrive, Outlook, Teams and Access, James Holler.

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- SPSS Statistics for Data Analysis and Visualization, Jesus Salcedo, Wiley Publishers, 2017.

e-Learning Resources:

- ☐ <https://www.tutorialspoint.com/word/index.htm>
- ☐ <https://www.vmaker.com/tutorial-video-hub/microsoft-tutorial-videos/microsoft-office-tutorial/>
- ☐ <https://www.thesourcecad.com/autocad-tutorials/>
- ☐ <https://nutrium.com/blog/why-should-you-choose-a-nutrition-software-over-an-excel-word/>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	M	S	L	M	M	S
CO2	S	S	S	M	M	S	L	M	M	S
CO3	S	S	S	M	M	S	L	M	M	S
CO4	S	S	S	M	M	S	L	M	M	S
CO5	S	S	S	S	M	S	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		FURNITURE DESIGN								
Course Code		331C5A								
Category	Year III	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
CC9	V	Y		Y		4	5	25	75	100

Learning Objectives										
To enable the students to:										
Understand the various traditional and modern styles of furniture design.										
Develop furniture layout on floor plans.										

UNIT	CONTENT	HOURS
UNIT I	History of Furniture Design - Different styles of furniture-William and Mary period, Queen Anne period, Chippendale, Hepplewhite, Sheraton, Adam furniture, American Georgian, Baroque, Rococo and Neo Classical.	10
UNIT II	Study of Modern Furniture - Styles through works of F. L.Wright, Mies Van der Rohe, Marcel Breuer. Factors influencing the selection of furniture –comfort, expressiveness, style, beauty, utility, family needs and preferences.	10
UNIT III	Types of furniture – Built in furniture – Movable furniture – Upholstery furniture - Sectional furniture - Systems furniture – Readymade furniture. Joineries used in furniture.	10
UNIT IV	Use of furniture in Interiors – Arrangements of Furniture using Principles of Design, general guidelines in arranging furniture. Planning furniture for selected activities – Educational Institution and General office.	15
UNIT V	Design of Residential Furniture- Wall cabinet, TV Show cases, sofa, Dining table, study table, center table, children furniture and multipurpose furniture. Furniture layout on floor plans of Living Room, Bed Room, Study Room and Dining Room. Care and maintenance of furniture.	15
	Practicals 1. Styles of furniture sketching. 2. Measured drawing of furniture. 3. Kitchen cabinets and Showcase drawings. 4. Designing of furniture. 5. Model making.	15
	TOTAL	75

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COURSE OUTCOMES

After successful completion of the course the student will be able to:

- CO1. Recognize history of various styles of furniture design like Chippendale, Hepplewhite.
- CO2. Understand the factors influencing the selection of furniture for various uses.
- CO3. Identify Different types of Furniture and its uses.
- CO4. Apply the guidelines in arrangement of furniture.
- CO5. Develop new ideas to design furniture in residential spaces by implementing ergonomic principles.

Reference:

- Natalie Walton (2022). Style: the art of creating a beautiful home, Hardie Grant Publishers.
- [George Nakashima](#) (2012). The Soul of a Tree: A Master Woodworkers Reflections, Kodansha USA
- [Charlotte Fiell](#) (2017). 1000 Chairs, Taschen America Llc
- [Anne Hepfer](#) (2022). MOOD: Interiors & Inspiration, Gibbs Smith Publishers
- Interior Design (2012). Francis D.K. Ching, John Wiley & Sons, New York
- [Frida Ramstedt](#) (2020). The Interior Design Handbook: Furnish, Decorate, and Style Your Space, Clarkson Potter Publishers.

e-learning resources

- ☐ <https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=4839&context=extensionhist#:~:text=These%20art%20principles%20%2D%2D%20balance,cessories%20or%20setting%20the%20table.>
- ☐ shutterfly.com/ideas/how-to-arrange-furniture/
- ☐ <https://www.archdaily.com/tag/furniture-design>
- ☐ <http://www.lectra.com/en/furniture/upholstered-design-product-development>

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	M	M	L	M	M	S
CO2	S	S	S	M	M	M	L	M	M	S
CO3	S	S	S	M	M	M	L	M	M	S
CO4	S	S	S	M	M	M	L	M	M	S
CO5	S	S	S	M	M	M	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		APPLICATION OF COLOUR IN INTERIORS								
Course Code		331C5B								
Category	Year III	L	T	P	O	Credits	InstHrs	Marks		
								CIA	External	Total
CC10	Sem.V	Y		Y		4	5	25	75	100

Learning Objectives

To enable the students to:

Understand the needs of colours in interiors in various aspects.

Develop a conceptual understanding in the Interior Design field.

UNIT	CONTENT	HOURS
UNIT I	Colour concept - Colour and light, colour and distances and scales. Techniques for choosing appropriate wall colours based on the purpose of the room. Understanding the psychological impact of different colours on human emotions and moods.	10
UNIT II	Colours based on Design – Formal, Informal and Free styles. Colours based on Elements – Wood, Glass, Metal and Stone. Colours based on Themes – Warm and Cool Colours based on Lighting - Additive Colour, Subtractive Colour	10
UNIT III	Interior Colour Combination – Warm neutrals and Rich earth tones. VOC and odourless paint that protects the walls from tough stains & harmful bacteria. Types of emulsion paint – Gloss, Semigloss, matte, eggshell or velvet. Application of Emulsion paint – spraying, brushing and rolling with a brush like motion.	15
UNIT IV	Home Interior - Wall Colours and Textures, Create a design board for various room. Suggest Interior colours for kids’ room, living room, bedroom, study room and pooja room. Exterior Colours for Bungalow and Apartments. Factors to consider lighting, room size, furniture and personal preferences.	15
UNIT V	Commercial Spaces – Introduction to commercial space wall colours and textures, Study of various wall materials and finishes suitable for commercial spaces, exploring techniques such as wallpaper, textured paint, veneers, and 3D panels, examining eco-friendly and sustainable wall colour and texture options for commercial spaces, incorporating materials and finishes that meet green building standards.	15
	Practical Applying acquired knowledge and skills to design and execute a wall colour and texture project. Presenting the project concept, materials and techniques used. Creating professional presentations and documentation for wall colour and texture projects. Articulating design concepts, material specifications and project outcomes.	10
	TOTAL	75

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COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: Outline the importance of Colour combination and analyse various colours on human moods.
- CO2: Identify colours based on designs, elements, themes and lighting.
- CO3: Understand the types of emulsion paint and apply to achieve different texture.
- CO4: Suggest colour for various interior rooms.
- CO5: Explore various wall materials and finishes for commercial spaces.

References:

- GokcakanÇicek N., Gokcakan K.: Characteristics Of Colors, Interior Design And Their Psychological And Physiological Effects. TOJET: The Turkish Online Journal of Educational Technology, November 2016, Special Issue for INTE 2016, p.p. 425-430.
- Sadat Behbahani N (2011). Theoretical Review on Color in Interior Space: An Experimental Assessment of Iranian Houses, Eastern Mediterranean University, Gazimağusa, North Cyprus.
- Krstić H., Radelović D (2013) Color as a powerful tool in interior design. Proceedings Third international science conference Balkan color, p.p. 568-575.
- RiosVelasco C., Color and Visual Comfort, The University of Texas, Austin, 2010.
- Living in Color: Color in Contemporary Interior Design (2021). [Phaidon Editors](#), Phaidon publishers.

e-Learning Resources:

- ☐ <https://www.researchgate.net/publication/333928432>
- ☐ <https://www.2020spaces.com/blog-interior-design-styles/>
- ☐ <https://foyr.com/learn/types-of-interior-design-styles/>
- ☐ <https://foyr.com/learn/psychology-of-colors-in-interior-design/>
- ☐ <https://www.stewart-schafer.com/journal/the-importance-of-color-in-interior-design>

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	L	S	S	L	M	S
CO2	S	S	S	M	L	S	M	L	M	S
CO3	S	S	S	M	L	S	M	L	M	S
CO4	S	S	S	M	L	S	M	L	M	S
CO5	S	S	S	M	L	S	S	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to Pos	3	3	3	3	3

Strong 3 Medium 2 Low 1

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INTERIOR DESIGN AND DECOR
SYLLABUS WITH EFFECT FROM 2023-2024

Title of the Course		KITCHEN DESIGN								
Course Code		331C5C								
Category	Year III	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
CC11	V	Y				4	5	25	75	100

Learning Objectives
To enable the students to :
Gain knowledge of different materials used for various surfaces in kitchen.
Develop skill to plan, change or enhance Kitchen design layout.
Apply the appropriate technique to redirect kitchen traffic.

UNIT	CONTENT	HOURS
UNIT I	Kitchen planning – Functions performed in a kitchen Principles of planning kitchen – orientation and location, ventilation, storage needs, work triangle, color, light and safety.	10
UNIT II	Types of kitchen – One- Wall Kitchen, U – Shaped Kitchen, L – Shaped Kitchen, Galley Kitchen, Island Kitchen and Peninsula Kitchen.	20
UNIT III	Materials and finishes – Various materials and finishes used in kitchen – floor, wall, sink, ceiling, countertops, storage and their characteristics	15
UNIT IV	Modular Kitchen: Characteristics, requirements, Materials used – Wood, Steel, Sintex and Aluminium. Pull Outs – Double basket, Cutlery trays, Corner unit, Sleek oil pull out, Ladder unit, Basket bin holder.	15
UNIT V	Kitchen storage – principles of kitchen storage, storage areas in kitchen – Free Standing and Built-In Storage, dimensions, hand operated tools and their location. Care and maintenance of storage.	15
	TOTAL	75

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: Draw and Apply the Principles of planning and standards in Kitchen design.
CO2: Apply various types of Kitchen for suitable interiors.
CO3: Examine the Material and finishes of kitchen well suited for performance.
CO4: Interpret the Current trends in modular kitchen.
CO5: Create a Design for storage spaces and their requirements for kitchen.

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References:

- [Heather J. Paper](#) (2018). All New Kitchen Ideas that Work, Taunton Press Publishers
- Sarah Blank (2022). Classic Kitchens for Modern Living: Sarah Blank, Images Publishing Dist Ac Publishers
- KITCHEN Remodeling: Design Ideas to Modernize Your Kitchen -THE LATEST TRENDS +50 pictures (REMODELING IDEA) (2022). [H. PRESS](#)
- [Barbara Sallick](#) (2022). The Perfect Kitchen, (2020)
- [Nancy Wolford](#), [Ellen Cheever](#), [NKBA \(National Kitchen and Bath Association\)](#) (2015). Kitchen and Bath Design Principles: Elements, Form, Styles (NKBA Professional Resource Library), Wiley Publishers

e-Learning Resources:

- <http://bestinteriors4u.weebly.com/kitchen.html>
- <https://www.kutchina.com/e-catalogue/catalogue-modular%20kitchen.pdf>
- https://johnsonkitchens.in/pdf/theater_bro_hi-res.pdf
- <https://foyr.com/learn/kitchen-floor-plans-with-dimensions/>
- <https://www.roomsketcher.com/blog/kitchen-layout-ideas/>
- <http://www.seas.ucla.edu/~junjie/project/SP4.pdf>

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	M	L	L	M	M	M	S
CO2	S	S	S	M	L	L	M	M	M	S
CO3	S	S	S	M	L	L	M	M	M	S
CO4	S	S	S	M	L	L	M	M	M	S
CO5	S	S	S	M	L	L	M	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		PROJECT WITH VIVA VOCE								
Course Code		331C5D								
Category	Year III	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
CC12	V	Y		Y		4	5	40	60	100

Learning Objectives
To enable the students to :
Develop skills in conducting a research study
Learn the art and science of preparing and presenting a research document.

UNIT	CONTENT	HOURS
UNIT I	Introduction	5
UNIT II	Review of Literature and Citing of Bibliography	15
UNIT III	Methodology	15
UNIT IV	Results and Discussion	15
UNIT V	Summary and Conclusion	15
	Project Presentation	10
	TOTAL	75

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1: State a research problem on a topic relevant to their field.
- CO2: Prepare a systematic literature review on the topic selected.
- CO3: Select and execute the most appropriate methodology for the study.
- CO4: Acquire basic skill in collecting, analyzing, presenting and interpreting data
- CO5: Present findings of the study in a logical and sequential manner and discuss them against a backdrop of available scientific literature; Cite references in prescribed format.

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Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	M	S	L	S	L	M	M	S
CO2	S	S	M	S	L	S	L	M	M	S
CO3	S	S	M	S	L	S	L	M	M	S
CO4	S	S	M	S	L	S	L	M	M	S
CO5	S	S	M	S	L	S	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low

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Title of the Course		HUMAN NUTRITION								
Course Code		331E5A								
Category	Year III	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
EC5	V	Y				3	4	25	75	100

Learning Objectives
To enable the students to :
Understand the benefits of nutrients of different age groups
Analyze dietary management for lifestyle disorder.

UNIT	CONTET	HOURS
UNIT I	Health and Nutrition –Definition – Nutrition, balanced diet, Menu, Health, and Nutrients - classification, functions of food, Basic five food groups, Principles of Menu planning. Proteins - classification of amino acid, functions and Sources.	15
UNIT II	Carbohydrates – classification of carbohydrates, functions and Sources. Lipids - classification of saturated and unsaturated fatty acid, functions and Sources.	10
UNIT III	Sources, functions and deficiency of Vitamins and Minerals – Water-soluble Vitamins and Fat-soluble Vitamins. Minerals – Macro-minerals – Calcium, Phosphorus, Magnesium, Potassium, Sodium. Microminerals – Iron and Iodine. Water- Functions, dehydration and water intoxication.	15
UNIT IV	Nutrient requirements of Infants, preschool, School going, Adolescents, Adults, Pregnant and lactating mothers and at old age.	10
UNIT V	Lifestyle disorders – Prevention and dietary management of Obesity, Cardiovascular diseases (CVD) and Diabetes Mellitus.	10
	TOTAL	60

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1. Understand the concept of Balanced diet.
- CO2. Identify sources of foods rich in lipids and protein.
- CO3. Analyze the functions of vitamins and minerals
- CO4. Assess the nutritional requirements for different age groups
- CO5. Propose meal plans for lifestyle disorders

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Reference:

- Srilakshmi.B,(2019).Dietetics - Multi Colour,,New Age International Publishers
- [SHARMA A](#) (2017). Principles Of Therapeutic Nutrition And Dietetics, CBS Publishers
- Shubhangini.A. Joshi, 5th Edition (2021). Nutrition and Dietetics, Tata McGraw Hill Education Pvt, LTD., New Delhi.
- Srilakshmi.B,(2012). Nutrition Science, NewAge Publications International, Pvt, Ltd., NewDelhi.
- [Sumati R. Mudambi](#) (2020). Fundamentals Of Foods, Nutrition And Diet Therapy, New Age International Private Limited
- [Gullybaba Com Panel](#) (2012), ANC-1 Nutrition For The Community, Gullybaba Publishing House Pvt. Ltd.

e-Learning Resources:

- [http://www.nios.ac.in/media/documents/SecHmscicour/english/Home%20Science%20\(Eng\)%20Ch-3.pdf](http://www.nios.ac.in/media/documents/SecHmscicour/english/Home%20Science%20(Eng)%20Ch-3.pdf)
- <http://agritech.tnau.ac.in/nutrition/pdf/cooking%20methods.pdf>
- <http://icmr.nic.in/final/rda-2010.pdf>
- <http://www.textbooksonline.tn.nic.in/Books/12/Std12-Nutr-EM.pdf>
- <https://egyankosh.ac.in/bitstream/123456789/31103/1/Unit-1.pdf>
- <https://ncert.nic.in/textbook/pdf/kehe103.pdf>

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	L	M	L	M	M	S
CO2	S	S	S	M	L	M	L	M	M	S
CO3	S	S	S	M	L	M	L	M	M	S
CO4	S	S	S	M	L	M	L	M	M	S
CO5	S	S	S	M	L	M	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		MASS COMMUNICATION								
Course Code		331E5B								
Category	Year III	L	T	P	O	Credits	InstH rs	Marks		
	Sem							CIA	External	Total
EC6	V	Y		Y		3	4	25	75	100

Learning Objectives

To enable the students to :

Understand the meaning and concept of communication

Gain theoretical and practical knowledge of basic design processes of communication

Conduct Cultural and Educational Programs to establish international relation.

UNIT	CONTENT	HOURS
UNIT I	Mass Communication - Definition, Characteristics, Communication Process, Barriers in Communication and methods to overcome communication barrier. Mass Media – characteristics, positive and negative effects.	10
UNIT II	Communication Aids - Audio Aids – Radio and Phone, Visual Aids – Newspapers, Magazines, Books, Posters, Booklets, Brochures, Folders, Diagram, Graphs, Flash cards, Bulletin Board, Exhibition and Audio-Visual aids – Puppet shows, Television, Slides and Presentation, Films, Touch screen Display Animations.	10
UNIT III	Based on Flow of Communication: One-way Communication: Information flows in a single direction. Example: Public speeches, announcements. Two-way Communication: Exchange of information between sender and receiver. Example: Conversations, interviews, discussions. Based on Mode: Verbal Communication: Involves the use of spoken or written words. Example: Face-to-face conversations, phone calls, emails. Non-Verbal Communication: Involves conveying messages without words. Example: Body language, facial expressions, gestures.	10
UNIT IV	Application in print media – Calligraphy – Introduction to basic calligraphy tools and materials, Typography - Font anatomy, text typefaces and its types. Logo - Definition, characteristics, types of logo, Advantages and disadvantages of logo.	10
UNIT V	Advertising – Definition, Types of Advertising Appeals, Outdoor Advertising – Billboards, Street Furniture, Wall scapes, Electrical Displays, Sky Advertising, Sandwichmen. Photography – Definition, The role of light in photography, Natural light vs. artificial light.	10

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	PRACTICALS a) Using computers applications to prepare Invitation, Certificate Brochures and Posters. b) Basic design exercises – Designing a logo, Digital design. c) Calligraphy - Basic strokes and shapes, Building letters: minuscules and majuscules, Practice with foundational hand (e.g., Italic or Roman) d) Compile photography – Edit photo by Understanding color temperature, Creative use of color in photography – landscape, portrait, still life. e) Internet Usage – vlogs, blog, LinkedIn, Scribd.	10
	TOTAL	60

COURSE OUTCOMES

After successful completion of the course the student will be able to:

- CO1. Identify and understand the meaning, characteristics and mode of Mass communication.
- CO2. Distinguish the usage of aids in communication.
- CO3. Analyze the Impact and functions of Graphic design.
- CO4. Criticize the Role of advertisement in modern society.
- CO5. Develop display skills in photography.

Reference:

- Keval J. Kumar (2020), “Mass Communication in India” (5th Edition) Jaico Publishing House, Mumbai
- [HASAN S.](#) (2019). Mass Communication Principles And Concepts, CBS Publishers
- [Cath Caldwell](#) (2019), GRAPHIC DESIGN FOR EVERYONE: Understand the Building Blocks so You can Do It Yourself, DK Publishers
- [Gail Anderson](#), [Gaile Anderson](#), [Steven Heller](#) (2016) THE GRAPHIC DESIGN IDEA BOOK, Laurence King Publishing
- Dahama O P & Bhatnagar O P (2019), Education and communication for development, 2nd edition, Oxford & IBH publishers.
- Evelyn P. Mann (2012) “Advertising: types, trends and Controversies” Nova Science Publishers, ISBN: 161324679X, 9781613246795.

e- learning resources

- https://www.researchgate.net/publication/344235361_The_Types_of_Communication
- https://assets.cambridge.org/97811071/51048/frontmatter/9781107151048_frontmatter.pdf
- https://www.researchgate.net/publication/304038097_COMMUNICATION_BARRIERS
- <https://www.southampton.ac.uk/~assets/doc/hr/Barriers%20to%20effective%20communication.pdf>
- https://www.aiga.org/sites/default/files/2021-03/1A_IntroductionToGraphicDesign.pdf

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- ☐ <https://ncert.nic.in/textbook/pdf/kegd103.pdf>
- ☐ <https://www.loveleighloops.com/blog/basic-calligraphy>
- ☐ <https://capturetheatlas.com/photography-for-beginners-pdf/>

Mapping with Programme Outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO1	S	S	S	M	M	S	L	M	M	S
CO2	S	S	S	M	M	S	L	M	M	S
CO3	S	S	S	M	M	S	L	M	M	S
CO4	S	S	S	M	M	S	L	M	M	S
CO5	S	S	S	M	M	S	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		ERGONOMICS								
Course Code		331C6A								
Category	Year III	L	T	P	O	Credits	InstHr s	Marks		
	Sem							CIA	External	Total
	CC:13	VI	Y				4	6	25	75

Learning Objectives
To enable the students to:
Gain knowledge on importance of ergonomics in work effectiveness.
Design work areas using ergonomic principles.

UNIT	CONTENT	HOURS
UNIT I	Ergonomics – Concept, Definition, Characteristics of places, things and activities. Human Factors, Principles of Ergonomics, Occupational factors affecting the worker.	15
UNIT II	Anthropometry - Definition, Types of data – Static dimensions and Dynamic dimensions, Definition and Applicability of Stature – Eye height, Elbow height, Sitting height, Shoulder and Elbow breadth, Thigh clearance and Popliteal height, Maximum and Minimum Vertical and Horizontal reach.	20
UNIT III	Posture – Sitting, Standing, lying down, Change of posture, Movement – Lifting, Pulling and Pushing, Problems of Posture – Kyphosis, Lordosis, Scoliosis and squatting and cross legged problems. Exercises for Postural problems.	20
UNIT IV	Musculoskeletal Disorder (MSD) – Strain, Tendinitis, Joints, Ligaments. Carpel Tunnel Syndrome (CTS) , Back, Neck, Knee problem. Stress – Definition, types and coping techniques.	15
UNIT V	Environmental Factors - Noise – Noise Guidelines, Noise reduction materials - Acoustics. Temperature – Heat stress, Heat strain, Materials used for thermal comfort, Heat Exchange - Convection, Conduction and Radiation.	20
	TOTAL	90

COURSE OUTCOMES

After successful completion of the course the student will be able to:

CO1. Relate anthropometry, posture and Musculo skeletal disorder.

CO2. Assess the static and dynamic dimensions in anthropometry.

CO3. Analyze the problems of posture and relate the significance of exercises.

CO4. Understand the concept of ergonomics design.

CO5. Compare and identify the right environmental factors.

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References:

- Khan M.I., (2014). Industrial Ergonomics. PHI Learning Private Limited, New Delhi.
- Umesh Prasad, (2011). Essential of Ergonomics. Sonali Publications, New Delhi.
- ManjitKaurChauhan, (2015). Ergonomics Practical Manual for Beginners. Authorspress, New Delhi.
- Jan Dul and Bernard Weerdmeester, (2008). Ergonomics for Beginners – A quick reference guide, CRC Press, New York.
- [Bridger](#) (2017). Introduction To Human Factors And Ergonomics, 4th Edn, Taylor & Francis Publishers
- [K.C. Jain, P.L. Verma, Nitin Shrivastava](#) (2018). Work Study And Ergonomics, New Age International Publishers

e-Learning resources

- ☐ <https://www.medicalnewstoday.com/articles/324071.php#summary>
- ☐ <https://www.healthyworkstations.com/resources/ergo/TakingMeasurements.pdf>
- ☐ <https://biologydictionary.net/anthropometry/>
- ☐ <https://www.osha.gov/ergonomics>

Mapping with Programme Outcomes

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	PO10
CO1	S	S	S	M	L	M	M	M	M	S
CO2	S	S	S	M	L	M	M	M	M	S
CO3	S	S	S	M	L	M	M	M	M	S
CO4	S	S	S	M	L	M	M	M	M	S
CO5	S	S	S	M	L	M	S	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PS O2	PS O3	PS O4	PS O5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to Pos	3	3	3	3	3

Strong 3 Medium 2 Low 1

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SYLLABUS WITH EFFECT FROM 2023-2024

Title of the Course		PRINCIPLES OF RESOURCE MANAGEMENT								
Course Code		331C6B								
Category	Year III	L	T	P	O	Credits	InstHr s	Marks		
	Sem							CIA	External	Total
CC14	VI	Y		Y		4	6	25	75	100

Learning Objectives
To enable the students to:
Understand the concepts, principles and significance of resource management.
Apply the principles in the management of resources.
Acquire Knowledge in work simplification.

UNIT	CONTENT	HOURS
UNIT I	Management Process – Definition, Qualities of a Good Manager. Management Process-Planning, Controlling and Evaluation. Motivational Factors - Values, Goals, Standards.	10
UNIT II	Decision making - Meaning and its importance, Steps in Decision making process, Kinds of decisions, Methods of resolving conflicts. Resources - Meaning and classification, Factors affecting the use of resources, Maximizing the use of family resources.	20
UNIT III	Time Management - Tools in time management –Time Norms, Peak loads, Work Curves, Rest periods. Time management process - Planning - Steps in making time plans - Controlling the planning action - Evaluation.	15
UNIT IV	Energy Management – Efforts used in Activities, Body mechanics, Fatigue - Types - Physiological and Psychological fatigue, Remedies for fatigue and Managerial process applied to energy. Work Simplification - Definition, Techniques - Process chart, Operation chart, and Pathway chart.	15
UNIT V	Money Management – concept of Income - Types, methods of augmenting family income. Methods of handling money, Family Expenditure – steps in making a Budget, controlling the use of income, Evaluation. Engel’s Law, Savings and its importance.	15
	PRACTICAL a) Plan an event. b) Identification of personal and family values and goals. c) Plan Time schedule. d) Techniques to study work simplification. e) Formulation of budgets for family.	15
	TOTAL	90

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COURSE OUTCOMES

After successful completion of the course the student will be able to:

CO1. Understand the managerial process.

CO2. Identify the resources and factors influencing the use of resources.

CO3. Understand use of tools in time management in day to day life.

CO4. Apply work simplification techniques while planning work.

CO5. Develop skills to draw a budget within the available income and to maintain accounts.

References:

- [Dipak Kumar Bhattacharyya](#) (2017), HR Analytics, Sage Publications India Private Limited
- [K Aswathappa](#) (2005), Human Resource And Personnel Management, Mcgraw-Hill Education India Ltd.
- [Kavita Singh](#) (2015), Organizational Behaviour Text And Cases, Vikas Publishing House
- PremavathySeetharaman, Sonia Batra, PreetiMehra, An Introduction To Family Resource Management(April 6, 2019)
- [Raman Preet](#) (2019), Future of Human Resource Management, Wiley Publishers
- Rao, V.S.P., (2010) Human Resource Management. Excel Books Publishers.
- Rao, V.S.P., (2019)Human Resource Management, Rao, Cengage Learning India Pvt. Ltd.

e-Learning resources

- <http://www.eiilmuniversity.co.in/downloads/Human-Resource-Management.pdf>
- <https://www.mgncre.org/pdf/publication/403%20HRM.pdf>
- <http://www.yourarticlelibrary.com/decision-making/decision-making-in-management-definition-and-features-explained/25657/>
- https://www.researchgate.net/publication/355445394_What_is_Human_Resource_Management_HRM
- https://www.sagepub.com/sites/default/files/upm-binaries/25450_Ch1.pdf
- https://archive.mu.ac.in/myweb_test/M.Com.%20Study%20Material/Human%20Res.%20Management%20-%20M.%20Com%20-%20I.pdf

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Mapping with Programme Outcomes

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	PO10
CO1	S	S	S	M	S	M	M	L	M	S
CO2	S	S	S	M	S	M	M	L	M	S
CO3	S	S	S	M	S	M	M	L	M	S
CO4	S	S	S	M	S	M	M	L	M	S
CO5	S	S	S	M	S	M	M	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PS O1	PS O2	PS O3	PS O4	PS O5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to Pos	3	3	3	3	3

Strong 3 Medium 2 Low 1

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INTERIOR DESIGN AND DECOR
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Title of the Course		3D MODELLING IN DESIGN (PRACTICAL)								
Course Code		331C61								
Category	Year III	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
CC15	VI			Y		4	6	40	60	100
Learning Objectives										
To enable the students to :										
Understand the application of 3D Modeling & there by upgrade their presentation skills in the design field.										
Analyze the features of various tools in Google Sketch up for 3D Modeling										
Create rendered 3D views using 3ds Max Software										
UNIT	CONTENT									HOURS
UNIT I	Concept of 3D Modeling Need & purpose of 3D models and views in the design field. Overview on different software's & plugins used for 3D modeling - Google Sketchup, 3Ds Max, Revit, V ray.									10
UNIT II	User Interface of Google Sketch up- Draw tools Components of Google Sketchup screen Basic Draw tools - Rectangle, Circle, Select, Pencil, Push-pull.									20
UNIT III	User Interface of Google Sketch Up– Modify tools Creating Groups, Components, Move, Array, Scale, Copy, Rotate, Offset & Paint bucket. Navigation tools - Zoom, Orbit, Pan									20
UNIT IV	Materials & Lighting Creating and applying materials to the models created. Exploring setting options in lights and camera tools.									15
UNIT V	V Ray rendering : Create Scene and Create rendered views by using V ray plugin for various rooms like Living, Bedroom and Kitchen.									25
TOTAL									90	

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

CO1: Outline the importance of 3D modeling in designing spaces.

CO2: Create interfacing in both interior and exterior spaces using Google Sketch up.

CO3: Identify and utilize different materials and evaluate the light and camera settings for 3D views.

CO4: Compare features of 3Ds Max and Google Sketch up.

CO5: Create rendered 3D views of residential and commercial spaces using 3Ds Max.

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References:

- Aidan Chopra, SketchUp 2014 For Dummies, John Wiley & Sons
- Alexander C. Schreyer, Architectural Design with SketchUp: 3D Modeling, Extensions, BIM, Rendering, Making, and Scripting 2nd Edition, Wiley Publishers.
- Daniel Tal, Rendering in SketchUp: From Modeling to Presentation for Architecture, Landscape Architecture, and Interior Design, Wiley Publishers.
- Kelly L. Murdock, Autodesk 3ds Max 2020 Complete Reference Guide, SDC Publications
- Markus Kuhlo, Architectural Rendering with 3ds Max and V-Ray: Photorealistic Visualization 1st Edition, Routledge Publishers.

e-Learning Resources:

- <https://www.sketchup.com>
- <https://vdoc.pub/download/building-blocks-of-sketchup-69si3ltjgke0>
- <https://www.bgsu.edu/content/dam/BGSU/libraries/documents/collab-lab/Sketchup-Tutorial.pdf>
- https://www.academia.edu/31650716/Architectural_Rendering_with_3ds_Max_and_V-Ray
- http://images.autodesk.com/adsk/files/3dsmax_2010_lighting_rendering.pdf

Mapping with Programme Outcomes

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	S	S	L	M	S	L	M	M	S
CO2	S	S	S	L	M	S	L	M	M	S
CO3	S	S	S	L	M	S	L	M	M	S
CO4	S	S	S	L	M	S	L	M	M	S
CO5	S	S	S	L	M	S	L	M	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		ENTREPRENEURSHIP DEVELOPMENT								
Course Code		331E6A								
Category	Year	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
EC7	VI	Y				3	5	25	75	100

Learning Objectives
To enable the students to :
Understand the concept of entrepreneurship
Cultivate entrepreneurial values, attitude, qualities and desires.

UNIT	CONTENT	HOURS
UNIT I	Entrepreneur - Definition of Entrepreneur and Entrepreneurship, Need of entrepreneurship, Characteristics and qualities of an entrepreneur, functions of an Entrepreneur, Types of Entrepreneurs.	20
UNIT II	Small enterprises - Definition, characteristics, Relationship between small and large Units. Role of Small enterprises in economic development, and problems of small-scale industries. Subsidies and incentives, importance of MSMEs	15
UNIT III	Project report- Meaning, Significance, Elements of Project formulation, planning, commission, guidelines for project report. Formulation of project report.	10
UNIT IV	Institutional Finance to Entrepreneurs - Commercial Banks, Other Financial Institutions- SIDBI, SISI, SIPCOT, IFCI, ICICI, IRBI, DIC and SFCs. Steps to start an enterprise.	15
UNIT V	Marketing Management - Concept of Marketing, Functions of marketing, Market Assessment and segmentation. Marketing Mix. Distribution channels, Sales promotion Branding, Labeling and Packaging.	15
	TOTAL	75

COURSE OUTCOMES

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

CO1. Understand the Concept of entrepreneur and entrepreneurship

CO2. Compare the financial institutions offering finance to entrepreneurs.

CO3. Relate the role of small enterprises in economic development.

CO4. Explain the concepts of marketing management and marketing mix

CO5. Create project report for starting a small scale enterprise.

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References

- [T.N Chhabra](#) (2019), Entrepreneurship Development, Sun India Publications
- [Pankaj Goyal](#) (2017). Before You Start Up: How to Prepare to Make Your Startup Dream a Reality, Fingerprint! Publishing
- Hisrich, R.D. (2015). International Entrepreneurship: Starting, Developing, and Managing a Global Venture
- Taneja, S. and Gupta, S.L. (1992). Entrepreneurship Development, New Venture Creation, Galgotia Publishing Company, New Delhi.
- Sunil Gupta, (2018), Small-Scale Industries and Entrepreneurship, ABD Publishers
- [B. Jankiraman](#), [P.V. Raveendra](#), [V.K. Srirama](#) (2010). Role and Challenges of Entrepreneurship Development, Excel Books Publishers

e-learning resources

- <http://www.morldechgossips.com/2013/02/entrepreneurial-development.html>
- https://www.iare.ac.in/sites/default/files/lecture_notes/IARE_Entrepreneurial_Development_NOTES.pdf
- <https://ncert.nic.in/ncerts/l/lebs213.pdf>
- https://www.researchgate.net/publication/344413560_Small_Scale_Industries_in_Entrepreneurship_Development_of_India_References
- <https://egyankosh.ac.in/bitstream/123456789/52149/1/Unit-1.pdf>

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	L	M	S	M	S	S
CO2	S	S	S	M	L	M	M	M	S	S
CO3	S	S	S	M	L	M	M	M	S	S
CO4	S	S	S	M	L	M	M	M	S	S
CO5	S	S	S	M	L	M	M	M	S	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low

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Title of the Course		HOUSEHOLD EQUIPMENT								
Course Code		331E6B								
Category	Year III	L	T	P	O	Credits	Inst Hrs	Marks		
	Sem							CIA	External	Total
EC8	VI	Y		Y		3	5	25	75	100

Learning Objectives
To enable the students to :
Learn about the classification and selection of common household equipment.
Enumerate the methods for proper use, care and maintenance of equipment.
Get an overview of smart home technologies under household equipment.

UNIT	CONTENT	HOURS
UNIT I	Household Equipment- Concept, importance, uses, Influence of household equipment in modern family life, Selection criteria of household equipment's-Specification, time, money and energy saving, quality, durability, features, colour and design, safety, cost, Ease of Service, size, brand, space storage, Ease of cleaning, Ease of use, warranty and guarantee. Conservation of Fuel, Electricity and Water.	15
UNIT II	Major equipment- Uses, Merits and Demerits, Care and Maintenance, Ranges, Stoves, Refrigerator, Washing machines, Dish washers, Food Waste Disposers and Vacuum Cleaner. Significance of Labour-saving equipment.	15
UNIT III	Minor equipment- uses, care and maintenance, Merits and demerits. Measuring cups, Peelers, mincers, choppers, Spatula, pots, pans, knives - types - knife sharpener, whisks, bowls, Juice extractor, Hand food mixer, spoons and strainer/colander. Materials of Kitchen Utensils and Equipment: Iron, Cast Aluminum, Copper bottom, Laminated steel bottom, Glass, Ceramic, Nonstick pan, Steel pot, Plastic, Earthenware, Wood and stone.	15
UNIT IV	Electric devices – meaning and its uses, merits and demerits. electronic ignition, electrical garage door, opener, Blender, Electric toaster, electric kettle, Rice cooker, Coffee Maker, Waffle maker, Toaster, Sandwich maker, Micro oven and food processor.	15
UNIT V	Smart home gadgets – concept, need for smart home gadgets – Comfort or ease of control, Entertainment, Security, Convenience at all time, lifestyle personalization and user friendly, Challenges and benefits. Home automation system, Lighting automation system, Curtain automation system, Security and alarm system, Window and Door Control system, Remote control system, and Surveillance camera.	15
	TOTAL	75

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COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1. Understand and recognize the selection criteria in purchase of common household equipment.
- CO2. Interpret and implement the proper care and maintenance of all major equipment.
- CO3. Distinguish the merits and demerits of minor equipment.
- CO4. Evaluate the concepts, uses, types of electric household equipment.
- CO5. Adapt to the use of smart home gadgets and automation in modern living.

Reference:

- Bhargava S.C (2020), Household Electricity and Appliances, BS Publications, ISBN-13: 978-9390211265.
- Eric Kleinert, (2012), “Troubleshooting and Repairing Major Appliances”, Edition 3, McGraw-Hill Professional Publishing, ISBN-13: 9780071770187
- Jean B MacLeod (2018), “The Kitchen Paraphernalia Handbook: Hundreds of Substitutions for Common and Uncommon Utensils” Jean B. MacLeod ISBN-13: 978-0997446432
- Chin Robert (2020), “ A DIY Smart Home Guide: Tools for Automating Your Home and Security”, ISBN-13: 978-1260456134

e-Learning Resources:

- <https://www.slideshare.net/loggcity/smart-home-technologies>
- <https://nios.ac.in/media/documents/srsec321newE/321-E-Lesson-16.pdf>
- <https://www.trendhunter.com/slideshow/home-appliances>
- <https://www.aylanetworks.com/blog/what-is-a-smart-appliance-and-how-do-you-make-one>

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	L	M	L	L	M	S
CO2	S	S	S	M	L	M	L	L	M	S
CO3	S	S	S	M	L	M	L	L	M	S
CO4	S	S	S	M	L	M	L	L	M	S
CO5	S	S	S	S	L	S	L	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1

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Title of the Course		APTITUDE AND REASONING SKILL FOR COMPETITIVE EXAMINATIONS								
Course Code		331S6A								
Category	Year III	L	T	P	O	Credits	InstHrs	Marks		
	Sem							CIA	External	Total
SE8	VI	Y	Y			2	2	25	75	100

Learning Objectives
To enable the students to :
Get acquainted with quantitative aptitude and logical reasoning tests employed in various competitive examinations.
Recognize the importance of aptitude and reasoning skills to obtain placement in campus interviews.

UNIT	CONTENT	HOURS
UNIT I	Quantitative Ability (Basic Mathematics) Number Systems, LCM and HCF, Decimal Fractions, Simplification, Square Roots and Cube Roots, Average, Problems on Ages, Surds & Indices, Percentages.	10
UNIT II	Quantitative Ability (Advanced Mathematics) Logarithm, Profit and Loss, Simple and Compound Interest, Time, Speed and Distance, Time & Work, Ratio and Proportion.	10
UNIT III	Verbal and Non-Verbal reasoning Analogy, Blood Relation, Number and Letter Series, Coding – Decoding, Calendars, Clocks, Venn Diagrams.	10
	TOTAL	30

COURSE OUTCOMES

After successful completion of the course, the student will be able to:

- CO1. Understand the basic concepts of quantitative aptitude.
- CO2. Identify the concepts underlying the tests of reasoning.
- CO3. Demonstrate satisfactory competency in logical reasoning.

Reference:

- Aggarwal, R. S. (2000). A Modern Approach to Verbal&Non-Verbal Reasoning.
- S. Chand Publications.
- Sijwali, B. S and InduSijwali (2014). Analytical and Logical reasoning, Arihant Publications.
- Guha A, (2020) Quantitative Aptitude by Competitive Examinations, 7th Edition, Mcgraw Hill Education Publication.
- Rajgotra, A. & Pradhan P (2020). WileysExamXpert A simpler Approach to Logical Reasoning,

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Wiley Publications

e-Learning Resources:

- <https://prepinsta.com/>
- <https://www.indiabix.com/>
- <https://www.javatpoint.com>

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M	M	M	L	L	M	L	L	M	S
CO2	M	M	M	L	L	M	L	L	M	S
CO3	M	M	M	L	L	M	L	L	M	S
CO4	M	M	M	L	L	M	L	L	M	S
CO5	M	M	M	L	L	M	L	L	M	S

Mapping with Programme Specific Outcomes

CO/PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage (rounded of) of Course Contribution to POs	3	3	3	3	3

Strong 3 Medium 2 Low 1