

Holy Cross College (Autonomous), Nagercoil
Kanyakumari District, Tamil Nadu.
Accredited with A+ by NAAC - IV Cycle – CGPA 3.35

Affiliated to
Manonmaniam Sundaranar University, Tirunelveli



Semester I - IV

Guidelines & Syllabus

DEPARTMENT OF COSTUME DESIGN AND FASHION



2023-2026

(With effect from the academic year 2024-2025)

Issued from
THE DEANS' OFFICE

Vision

The vision of our department is to enlighten and educate the youth with the current fashion and transform them to become trend setters in fashion designing in order to respond creatively to global markets towards sustainable development.

Mission

1. To impart quality education and promote activities with global competencies.
2. To encourage participatory involvement and develop their potentials in designs and structure.
3. To prepare professional and entrepreneurs for fashion industry.
4. To adopt new technologies and develop garments to protect health.
5. To interconnect fashion with eco-friendly product and promote global market.

Graduate Attributes

Graduates of our College develop the following attributes during the course of their studies.

➤ **Creative thinking:**

Equipping students with hands-on-training through skill-based courses and promote startup.

➤ **Personality development:**

Coping with increasing pace and change of modern life through value education, awareness on human rights, gender issues and giving counselling for the needful.

➤ **Environmental consciousness and social understanding:**

Reflecting upon green initiatives and understanding the responsibility to contribute to the society; promoting social and cultural diversity through student training and service-learning programmes.

➤ **Communicative competence:**

Offering effective communication skills in both professional and social contexts through bridge courses and activities of clubs and committees.

➤ **Aesthetic skills:**

Engaging mind, body and emotions for transformation through fine arts, meditation and exercise; enriching skills through certificate courses offered by Holy Cross Academy.

➤ **Research and knowledge enrichment:**

Getting in-depth knowledge in the specific area of study through relevant core papers; ability to create new understanding through the process of critical analysis and problem solving.

➤ **Professional ethics:**

Valuing honesty, fairness, respect, compassion and professional ethics among students. The students of social work adhere to the *National Association of Social Workers Code of Ethics*

➤ **Student engagement in the learning process:**

Obtaining extensive and varied opportunities to utilize and build upon the theoretical and empirical knowledge gained through workshops, seminars, conferences, industrial visits and summer internship programmes.

➤ **Employability:**

Enhancing students in their professional life through Entrepreneur development, Placement & Career guidance Cell.

➤ **Women empowerment and leadership:**

Developing the capacity of self-management, team work, leadership and decision making through gender sensitization programmes.

Programme Educational Objectives (PEOs)

PEOs	Upon completion of B.A/B.Sc. Degree Programme, the graduates will be able to	Mapping with Mission
PEO1	apply appropriate theory and scientific knowledge to participate in activities that support humanity and economic development nationally and globally, developing as leaders in their fields of expertise.	M1 & M2
PEO2	use practical knowledge for developing professional empowerment and entrepreneurship and societal services.	M2, M3, M4 & M5
PEO3	pursue lifelong learning and continuous improvement of the knowledge and skills with the highest professional and ethical standards.	M3, M4, M5 & M6

Programme Outcomes (POs)

POs	Upon completion of B.Sc. Degree Programme, the graduates will be able to:	Mapping with PEOs
PO1	obtain comprehensive knowledge and skills to pursue higher studies in the relevant field of science.	PEO1
PO2	create innovative ideas to enhance entrepreneurial skills for economic independence.	PEO2
PO3	reflect upon green initiatives and take responsible steps to build a sustainable environment.	PEO2
PO4	enhance leadership qualities, team spirit and communication skills to face challenging competitive examinations for a better developmental career.	PEO1 & PEO3
PO5	communicate effectively and collaborate successfully with peers to become competent professionals.	PEO2 & PEO3
PO6	absorb ethical, moral and social values in personal and social life leading to highly cultured and civilized personality	PEO2 & PEO3
PO7	participate in learning activities throughout life, through self-paced and self-directed learning to improve knowledge and skills.	PEO1 & PEO3

Programme Specific Outcomes (PSOs)

PSOs	Upon completion of B.SC Costume Design and Fashion the graduates will be able to:	Mapping with POs
PSO1	create innovative products in the fashion and textile industry by analyzing the textile materials, styles, designs and client specifications to integrate new developments in fashion and textile industry through quality standards	PO1 & PO3
PSO2	apply the specialized skills to manage with the available indigenous materials for sustainability in textiles.	PO1 & PO2
PSO3	develop portfolio presentations from fibre to fashionable garments and exhibit the same through fashion shows to excel as fashion designers and globally competitive entrepreneurs	PO2 & PO7
PSO4	recognize and analyze every single person's personality that suits their clothing.	PO4, PO5 & PO6

Mapping of POs and PSOs

POs	PSO1	PSO 2	PSO3	PSO4
PO1	S	S	S	S
PO2	M	S	M	M
PO3	S	S	S	S
PO4	S	S	S	S
PO5	S	S	S	S
PO6	S	S	S	S
PO7	S	S	M	M

Eligibility Norms for Admission**Eligibility: 10 + 2 pattern**

Candidate should have passed the Higher Secondary Examination conducted by the Government or any other equivalent course approved by Manonmaniam Sundaranar University, Tirunelveli.

Duration of the programme: 3 years

Medium of Instruction: English

Passing Minimum

A minimum of 40% in the external examination and an aggregate of minimum 40% is required. There is no minimum pass mark for the Continuous Internal Assessment.

Components: Part III (Core Courses and Elective Courses)

Core Courses	Core-Theory papers	8x100	900
	Core Research Project	1x100	
	Core Lab Course	7 x 100	
	Discipline Specific Elective	4 x 100	
Elective Courses	Theory	2 x100	400
	Lab Course	2x100	
Total Marks			2400

Course Structure**Distribution of Hours and Credits****Curricular Courses:**

Course	S I	S II	S III	S IV	S V	S VI	Total	
							Hours	Credits
Part I –Language	6 (3)	6 (3)	6 (3)	6 (3)	-	-	24	12
Part II-English	6 (3)	6 (3)	6 (3)	6 (3)	-	-	24	12
Part-III								
Core Course	5 (5)	5 (5)	5 (5)	5 (5)	5 (4)+ 5 (4)	5(3)+ 6(5)	70	62
Core Lab Course	3 (3)	3 (3)	3 (3)	3 (3)	5 (4)	2(2) + 6(4)		
Core Research Project					5 (4)			
Elective /Discipline Specific Elective Courses	4 (3) 2(2)	4 (3) 2(2)	4 (3) 2(2)	4 (3) 2(2)	4 (3) 4 (3)	5 (3) 5 (3)	42	32

Part IV								
Non-major Elective	2 (2)	2 (2)					4	4
Skill Enhancement Course		2 (2)	2(2) + 2 (2)	2 (2)			8	8
Foundation Course	2 (2)						2	2
Environmental Studies				2 (2)			2	2
Value Education					2 (2)		2	2
Internship					(2)		-	2
Professional Competency Skill						2 (2)	2	2
Total	30 (23)	30 (23)	30 (23)	30 (24)	30 (26)	30 (22)	180	140

Co-curricular Courses

Course	S I	S II	S III	S IV	S V	S VI	Total
LST (Life Skill Training)	-	(1)	-	(1)			2
Skill Development Training (Certificate Course)	(1)						1
Field Project		(1)					1
Specific Value-added Course	(1)		(1)				2
Generic Value-added Course				(1)		(1)	2
MOOC		(1)		(1)			2
Student Training Activity: Clubs & Committees / NSS				(1)			1
Community Engagement Activity: RUN				(1)			1
Human Rights Education					(1)		1
Gender Equity Studies						(1)	1
Total							14

Total number of Compulsory Credits = Academic credits + Non-academic credits: 140 + 14
Courses Offered

SEMESTER I

Course	Course Code	Title of the Course	Credits	Hours/Week
Part I	TU231TL1	Language: Tamil French	3	6
	FU231FL1			
Part II	EU241EL1	English: A Stream	3	6
	EU241EL2	English: B Stream		
	EU241EL3	English: C Stream		
Part III	DU231CC1	Core Course I: Fibre to Fabric	5	5
	DU241CP1	Core Lab Course I: Fundamentals of Apparel Designing	3	3
	DU241EC1	Elective Course I: Sewing Technology	3	4
	DU241EP1	Elective Lab Course I: Fundamentals of	2	2

		Fashion Illustration		
Part IV	DU231NM1	Non-Major Elective (NME): Fashion Concept and Design	2	2
	DU241FC1	Foundation Course: Fashion Designing Concepts	2	2
	Total		23	30

SEMESTER II

Course	Course Code	Title of the Course	Credits	Hours/Week
Part I	TU232TL1	Language: Tamil French	3	6
	FU232FL1			
Part II	EU242EL1	English: A Stream	3	6
	EU242EL2	English: B Stream		
	EU242EL3	English: C Stream		
Part III	DU242CC1	Core Course II: Pattern Making and Grading	5	5
	DU242CP1	Core Lab Course II: Construction of Children's wear	3	3
	DU242EC1	Elective Course II: Technology of Wet Processing	3	4
	DU242EP1	Elective Lab Course II: Textile Wet Processing Laboratory	2	2
Part IV	DU232NM1	Skill Enhancement Course SEC-II Non-Major Elective (NME): Surface Embellishment	2	2
	DU242SE1	Skill Enhancement Course SEC-I: Fashion Sketching Lab Course	2	2
	Total		23	30

SEMESTER III

Course	Course Code	Title of the Course	Credits	Hours / Week
Part I	TU233TL1	Language: Tamil French	3	6
	FU233FL1			
Part II	EU233EL1	English	3	6
Part III	DU233CC1	Core Course III: Pattern Making and Grading	5	5
	DU233CP1	Core Lab Course III: Construction of Women's wear	3	3
	DU233EC1	Elective Course III: Technology of Wet Processing	3	4
	DU233EP1	Elective Lab Course III: Textile Wet Processing – Laboratory	2	2
Part IV	DU233SE1	Skill Enhancement Course SEC-II: (Indian Knowledge System) Indian Textiles and	2	2

		Costumes		
	UG23CSE1	Skill Enhancement Course SEC-III: Fitness for Wellbeing	2	2
		Total	23	30

SEMESTER IV

Course	Course Code	Title of the Course	Credits	Hours / Week
Part I	TU234TL1	Language: Tamil	3	6
	FU234FL1	French		
Part II	EU234EL1	English	3	6
Part III	DU234CC1	Core Course IV: Textile Testing and Quality Control	5	5
	DU234CP1	Core Lab Course IV: Textile Testing and Quality Control Laboratory	3	3
	DU234EC1	Elective Course IV: Fabric Structure and Design	3	4
	DU234EP1	Elective Lab Course IV: Fabric Structure and Design Laboratory	2	2
Part IV	UG23CSE2	Skill Enhancement Course SEC-IV: Digital Fluency	2	2
	UG234EV1	Environmental Studies (EVS)	2	2
		Total	23	30

SEMESTER V

Course	Course Code	Title of the Course	Credits	Hours/ Week
Part III	DU235CC1	Core Course V: Garment Costing	4	5
	DU235CP1	Core Practical Course V: Construction of Men's Wear	4	5
	DU235CC2	Core Course VI: Knitting Technology	4	5
	DU235RP1	Core Research Project	4	5
	DU235EC1	Discipline Specific Elective I: a) Fashion Forecasting	3	4
	DU235EC2	Discipline Specific Elective I: b) Marketing and Merchandising		
	DU235EC3	Discipline Specific Elective I: c) Visual Merchandising		
	DU235EC4	Discipline Specific Elective II: a) Wardrobe Planning	3	4
	DU235EC5	Discipline Specific Elective II: b) Entrepreneurial Development		
	DU235EC6	Discipline Specific Elective II: c) Technical Textiles		

Part IV	DU235VE1	Value Education	2	2
	DU235IS1	Internship	2	-
		Total	26	30

SEMESTER VI

Course	Course Code	Title of the Course	Credits	Hours/Week
Part III	DU236CC1	Core Course VII: Computer Application in Designing	3	4
	DU236CP1	Core Lab Course VI: Computer Application in Designing using CAD- Laboratory	2	2
	DU236CC2	Core Course VIII: Quality Control in Apparel Production	5	6
	DU236CP2	Core Lab Course VII: Mini Project & Fashion Port Folio	4	6
	DU236EC1	Discipline Specific Elective III: a) Digital Marketing & E business	3	5
	DU236EC2	Discipline Specific Elective III: b) Home Furnishing and Interior Design		
	DU236EC3	Discipline Specific Elective III: c) Boutique Management		
	DU236EC4	Discipline Specific Elective IV: a) Apparel Brand Management	3	5
	DU236EC5	Discipline Specific Elective IV: b) Home Textiles		
	DU236EC6	Discipline Specific Elective IV: c) Apparel Export and Trade Documentation		
	DU236PS1	Professional Competency Skill	2	2
	Total	22	30	
TOTAL			140	180

Co-curricular Courses

Part	Semester	Code	Title of the Course	Credit
Part V	I & II	UG232LC1	Life Skill Training I: Catechism	1
		UG232LM1	Life Skill Training I: Moral	
	I	UG231C01 – UG231C--	Skill Development Training (SDT) - Certificate Course	1
	II	DU232FP1	Field Project	1
	I & III	DU231V01- DU233V01 –	Specific Value-added Course	1+1
	II, IV	-	MOOC	1+1
	III & IV	UG234LC1	Life Skill Training II: Catechism	1
		UG234LM1	Life Skill Training II: Moral	
	IV & VI	GVAC2401 -	Generic Value-added Course	1 +1

	I – IV	UG234ST1	Student Training Activity – Clubs & Committees / NSS	1
	IV	UG234CE1	Community Engagement Activity – RUN	1
	V	UG235HR1	Human Rights Education	1
	VI	UG236GS1	Gender Equity Studies	1
			Total	14

Specific Value added Course

Semester	Course code	Title of the course	Total hours
I	DU231V01	Jewellery Design	30
I	DU231V02	Surface Embellishment	30
I	DU231V03	Basics of Cosmetology	30
III	DU233V01	Traditional Embroidery	30
III	DU233V02	Principles of Interior Decoration	30
III	DU233V03	Garment Accessories and Trims	30

Self Learning Course

Semester	Course code	Title of the course
III / V	DU233SL1/DU235SL1	Sustainable fashion
IV/ VI	DU234SL1/DU236SL1	Arts and Aesthetics in Fashion

Examination Pattern

Each paper carries an internal component. There is a passing minimum for external component. A minimum of 40% in the external examination and an aggregate of 40% is required.

i. Part I – Tamil, Part II – English, Part III - (Core Course/ Elective Course)

Ratio of Internal and External= 25:75

Continuous Internal Assessment (CIA)**Internal Components and Distribution of Marks**

Components	Marks
Internal test (2) - 40 marks	10
Quiz (2) - 20 marks	5
Assignment: (Model Making, Exhibition, Role Play, Seminar, Group Discussion, Problem Solving, Class Test, Open Book Test etc. (Minimum three items per course should be included in the syllabus & teaching plan) (30 marks)	10
Total	25

Question Pattern

Internal Test	Marks	External Exam	Marks
Part A 4 x 1 (No choice)	4	Part A 10 x 1 (No choice)	10
Part B 2 x 6 (Internal choice)	12	Part B 5 x 6 (Internal choice)	30
Part C 2 x 12 (Internal choice)	24	Part C 5 x 12 (Internal choice)	60
Total	40	Total	100

ii. Lab Course:

Ratio of Internal and External= 25:75

Total: 100 marks

Internal Components and Distribution of Marks

Internal Components	Marks
Performance of the Experiments	10
Regularity in attending practical and submission of records	5
Record	5
Model exam	5
Total	25

Question pattern

External Exam	Marks
Major Practical	75
Minor Practical / Spotters /Record	
Total	75

iii. Core Research Project

Ratio of Internal and External = 25:75

Components	Marks
Internal	25
External	
Core Research Project Report	40
Viva voce	35
Total	100

Part - IV**i. Non-major Elective, Skill Enhancement Course I & II, Foundation Course, Value Education, Professional Competency Skill**

Ratio of Internal and External = 25: 75

Internal Components and Distribution of Marks

Components	Marks
Internal test (2) – 25 marks	10
Quiz (2) – 20 marks	5
Assignment: (Model Making, Exhibition, Role Play, Album, Group Activity, etc. (Minimum three items per course)	10
Total	25

Question Pattern

Internal Test	Marks	External Exam	Marks
Part A 2 x 2 (No Choice)	4	Part A 5 x 2 (No Choice)	10
Part B 3 x 4 (Open choice Three out of Five)	12	Part B 5 x 4 (Open choice any Five out of Eight)	20
Part C 1 x 9 (Open choice One out of Three)	9	Part C 5 x 9 (Open choice any Five out of Eight)	45
Total	25	Total	75

ii. Skill Enhancement Course III & IV**Digital Fluency**

Components	Marks
Internal	
Quiz (15 x 1)	15

Lab Assessment (5 x 2)	10
Total	25
External	
Practical (2 x 25)	50
Procedure	25
Total	75

Fitness and Wellbeing

Components	Marks
Internal	
Quiz (15 x 1)	15
Exercise (2 x 5)	10
Total	25
External	
Written Test: Part A: Open choice – 5 out of 8 questions (5 x 5)	25
Part B: Open choice – 5 out of 8 questions (5 x 10)	50
Total	75

iii. Environmental Studies**Internal Components**

Component	Marks
Project Report	15
Viva voce	10
Total	25

Question Pattern

Internal Test	Marks	External Exam	Marks
Part A 2 x 2 (No Choice)	4	Part A 5 x 2 (No Choice)	10
Part B 3 x 4 (Open choice Three out of Five)	12	Part B 5 x 4 (Open choice any Five out of Eight)	20
Part C 1 x 9 (Open choice One out of Three)	9	Part C 5 x 9 (Open choice any Five out of Eight)	45
Total	25	Total	75

iv. Internship

Components	Marks
Industry Contribution	50
Report & Viva-voce	50
Total	100

Co-Curricular Courses:**i. Life Skill Training: Catechism & Moral, Human Rights Education & Gender Equity Studies****Internal Components**

Component	Marks
Project - Album on current issues	25
Group Activity	25
Total	50

External Components

Component	Marks
Written Test: Open choice – 5 out of 8 questions (5 x 10)	50
Total	50

ii. Skill Development Training - Certificate Course:

Components	Marks
Attendance & Participation	50
Skill Test	50
Total	100

iii. Field Project:

Components	Marks
Field Work	50
Field Project Report & Viva-voce	50
Total	100

iv. Specific Value-Added Courses & Generic Value-Added Courses:

Components	Marks
Internal	25
External	75
Total	100

v. Student Training Activity: Clubs and Committees

Compulsory for all I & II year students (1 credit).

Component	Marks
Attendance	25
Participation	75
Total	100

vi. Community Engagement Activity: Reaching the Unreached Neighbourhood (RUN)

Components	Marks
Attendance & Participation	50
Field Project	50
Total	100

vii. Self Learning Course

Ratio of Internal and External = 25: 75

Internal Test	Marks	External Exam	Marks
Part A 7 x 1 (No Choice)	7	Part A 15 x 1 (No Choice)	15
Part B 3 x 2 (No Choice)	6	Part B 10 x 2 (No Choice)	20
Part C 3 x 4 (No Choice)	12	Part C 10 x 4 (No Choice)	40
Total	25	Total	75

Outcome Based Education (OBE)**(i) Knowledge levels for assessment of Outcomes based on Blooms Taxonomy**

S. No.	Level	Parameter	Description
1	K1	Knowledge/Remembering	It is the ability to remember the previously learned
2	K2	Comprehension/Understanding	The learner explains ideas or concepts
3	K3	Application/Applying	The learner uses information in a new way
4	K4	Analysis/Analysing	The learner distinguishes among different parts
5	K5	Evaluation/Evaluating	The learner justifies a stand or decision
6	K6	Synthesis /Creating	The learner creates a new product or point of view

(ii) Weightage of K – Levels in Question Paper**Number of questions for each cognitive level:**

Programme	Assessment	Lower Order Thinking									Higher order thinking			Total number of questions
		K1			K2			K3			K4, K5, K6			
	Part	A	B	C	A	B	C	A	B	C	A	B	C	
I UG	Internal	2	1	-	1	1	1	1	-	1	-	-	-	8
	External	5	2	1	3	2	2	2	1	2	-	-	-	20
II UG	Internal	1	1	-	1	1	1	1	-	1	1	-	-	8
	External	5	1	1	4	1	1	-	3	1	1	-	2	20
III UG	Internal	1	-	-	1	-	1	1	1	1	1	1	-	8
	External	5	1	1	4	1	1	-	3	1	1	-	2	20

The levels of assessment are flexible and it should assess the cognitive levels and outcome attainment.

Evaluation

- i. The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade points.
- ii. Evaluation of each course shall be done by Continuous Internal Assessment (CIA) by the course teacher as well as by an end semester examination and will be consolidated at the end of the semester.
- iii. There shall be examinations at the end of each semester, for odd semesters in October/November; for even semesters in April/ May.
- iv. A candidate who does not pass the examination in any course(s) shall be permitted to reappear in such failed course(s) in the subsequent examinations to be held in October/ November or April/May. However, candidates who have arrears in practical examination shall be permitted to reappear for their areas only along with regular practical examinations in the respective semester.
- v. Viva-voce: Each project group shall be required to appear for Viva -voce examination in defence of the project.
- vi. The results of all the examinations will be published in the college website.

Conferment of Bachelor's Degree

A candidate shall be eligible for the conferment of the Degree of Bachelor of Arts / Science / Commerce only if the minimum required credits for the programme there of (140 + 18 credits) is earned.

Grading System**For the Semester Examination:****Calculation of Grade Point Average for End Semester Examination:**

$$\text{GPA} = \frac{\text{Sum of the multiplication of grade points by the credits of the course}}{\text{Sum of the credits of the courses (passed) in a semester}}$$

For the entire programme:

Cumulative Grade Point Average (CGPA) $\frac{\sum_n \sum_i C_{ni} G_{ni}}{\sum_n \sum_i C_{ni}}$

$$\text{CGPA} = \frac{\text{Sum of the multiplication of grade points by the credits of the entire programme}}{\text{Sum of the credits of the courses of the entire programme}}$$

where

- C_i - Credits earned for course i in any semester
 G_i - Grade point obtained for course i in any semester
 n - semester in which such courses were credited

Final Result**Conversion of Marks to Grade Points and Letter Grade**

Range of Marks	Grade Points	Letter Grade	Description
90-100	9.0-10.0	O	Outstanding
80-89	8.0-8.9	D+	Excellent
75-79	7.5-7.9	D	Distinction
70-74	7.0-7.4	A+	Very Good
60-69	6.0-6.9	A	Good
50-59	5.0-5.9	B	Average
40-49	4.0-4.9	C	Satisfactory
00-39	0.0	U	Re-appear
ABSENT	0.0	AAA	ABSENT

Overall Performance

CGPA	Grade	Classification of Final Result
9.5-10.0	O+	First Class – Exemplary*
9.0 and above but below 9.5	O	
8.5 and above but below 9.0	D++	
8.0 and above but below 8.5	D+	First Class with Distinction*
7.5 and above but below 8.0	D	
7.0 and above but below 7.5	A++	
6.5 and above but below 7.0	A+	First Class
6.0 and above but below 6.5	A	
5.5 and above but below 6.0	B+	
5.0 and above but below 5.5	B	Second Class
4.0 and above but below 5.0	C	
0.0 and above but below 4.0	U	Re-appear

*The candidates who have passed in the first appearance and within the prescribed semester are eligible for the same.

SEMESTER I
CORE COURSE I: FIBRE TO FABRIC

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU231CC1	5	-	-	-	5	5	75	25	75	100

Pre-requisite:

Basic knowledge in Textile Science.

Learning Objectives:

1. Impart knowledge on the manufacturing process of fabric from the fiber
2. Teach the methods and techniques involved in the fibre, yarn and fabric manufacturing process

Course Outcomes

On the successful completion of the course student will be able to:		
1.	classify fibers and understand the manufacturing and properties of natural fibers	K1 & K2
2.	describe the weaving methods and its characteristic features	K1
3.	understand the yarn types and its manufacturing process	K2
4.	gain an understanding of knitting and non-wovens	K2
5.	discover the manufacturing process of man - made fiber	K2 & K3

K1 - Remember; **K2** - Understand; **K3** – Apply

Units	Contents	No. of Hours
I	Fiber Classification, Natural Fibres Introduction to Textiles Fibres - classification of fibres – primary and secondary characteristics of textile fibres. Manufacturing process, properties and uses of natural fibres – cotton, linen, Jute, silk, wool. Brief study about Organic Cotton, woollen and worsted yarn, types of silk	15
II	Regenerated and Synthetic Fibres Manufacturing process, properties and uses of man-made fibres –Viscose rayon, nylon, polyester, acrylic. Brief study on polymerization, bamboo, spandex, Micro fibres & its properties. Texturization - Objectives, Types of textured yarns & Methods of Texturization	15
III	Yarn Manufacturing Spinning –Definition and classification; Chemical and mechanical spinning; Cotton Yarn Production sequence and objectives- opening, cleaning, doubling, carding, combing, drawing, roving and spinning. Comparison of carded and combed yarn. Yarn - Definition and classification- simple and fancy yarns. Manufacturing Process of sewing thread – cotton and synthetic. Yarn numbering systems - Significance of yarn twist.	15
IV	Weaving Mechanism Classification of fabric forming methods – Weaving preparatory processes and its objectives – Warping, Sizing & Drawing – in. Weaving mechanism- Primary, secondary & auxiliary motions of a loom. Parts and functions of a simple loom; Classification of looms Salient features of automatic looms; Shuttle looms, its	15

	advantages - Types of shuttles less looms – Rapier – Projectile – Air jet – Water jet.	
V	Knitting and Non-Woven Fabrics Knitting- Definition, classification. Principles of weft and warp knitting – Terms of weft knitting. Knitting machine elements. Classification of knitting machines. Characteristics of basic weft knit structures. Introduction to Non-Woven - Application and uses.	15
Total		75

Self-study	Novelty yarns, yarn numbering, Terminologies used in knitting, uses of nonwovens.
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Textbooks:

1. Corbmann B. P, 1985 Textiles –*Fibre to fabric*, international student’s edition, Mc Graw Hill. Book company, Singapore.
2. Isabel Barnum Wingate, 1964, *Textile fabrics and their Selection Published by Prentice-Hall*.

Reference Books

1. Ganapathy Nagarajan, 2014, *Textile Mechanisms in Spinning and Weaving Machines*, Woodhead Publishing India in Textiles.
2. Elena V Chepelyuk, Palitha Bandara and Valeriy V, Choogin, 2013, *Mechanisms of Flat Weaving Technology*, Woodhead Publishing series in Textiles.
3. Menachem Lewin, Stephen B Sello, Marcel Dekker, 1984, *Handbook of fiber science and Technology*, Inc, New York.
4. Susheela dantyagi, 1994, *Fundamentals of Textiles and Their care*, Fifth edition Orient Longman Private limited.
5. Mishra. S.P. 2000“*A text book of fibre science and Technology*”, New Age international (P)Ltd. Publishers, New Delhi.

Web Resources

1. <http://textilefashionstudy.com>
2. <https://fashion2apparel.blogspot.com/2017/07/classification-loom.html>
3. <https://www.inda.org/about-nonwovens/>
4. <https://textilelearner.net/different-types-of-man-made-fibers-with-their-application/>
5. <https://textilelearner.net/characteristics-of-nonwoven-fabric-uses/>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	2	2	3	3	2	2	2
CO2	3	2	2	3	2	2	3	3	2	2	2
CO3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	2	2	3	2	2	3	3	2	2	3
CO5	3	2	2	3	2	2	3	3	2	2	3
TOTAL	15	11	11	15	11	11	15	15	11	11	13
AVERAGE	3	2.2	2.2	3	2.2	2.2	3	3	2.2	2.2	2.6

3 – Strong, 2- Medium, 1- Low

SEMESTER I
CORE LAB COURSE I: FUNDAMENTALS OF APPAREL DESIGNING

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU241CP1	-	-	3	-	3	3	45	25	75	100

Pre-requisite:

Basic knowledge of Fundamentals of Apparel Designing

Learning Objectives:

- 1.To explain about the fundamentals, components of garment construction
- 2.To demonstrate the elements of garment enhancements

Course Outcomes

On the successful completion of the course, student will be able to:		
1.	choose fasteners and binding.	K1&K2
2.	design different types of sleeve patterns.	K2
3.	develop basic hand stitch and seams	K3
2.	apply and evaluate fullness in samples.	K4 &K5
3.	create facing and binding sample	K6

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

Units	Contents	No. of Hours
I	Basic Stitches (Prepare samples for the following) Basic hand stitch – Running stitch, hemming stitch, slip stitch, back stitch, overcasting stitch. Seams – Plain seam, single top stitched seam, double top stitched seam, flat fell seam, French seam, mantua maker’s seam, welt seam, lapped seam, slot seam, and piped seam, Seam finishes - Pinked finish, edge stitched finish, double stitch finish, overcast finish, herring bone finished seam, bound seam edge finish	9
II	Fullness (Prepare samples for the following) Darts - Single, Double, Pointed Darts, Pivot Darts Tucks - Pin Tucks, Cross Tucks, Piped Tucks, Shell Tucks. Pleats - Pleats; Knife Pleats, Box Pleats, Invertible Box Pleats, Kick Pleats. Flare – Godets – Gathers – Shirring – Single and Double Frills – Single and Double Ruffle	9
III	Facing and Binding (Prepare samples for the following) Facing – Bias Facing, Shaped Facing, Decorative Facing. Binding – Bias Binding, Single and Decorative Bias Binding.	9
IV	Plackets and Fasteners (Prepare samples for the following) Plackets – Bound Plackets, Continuous Bound Plackets, Discontinuous Plackets, Slot Seam Zipper Plackets and Tailored Plackets. Fasteners –Press Button, Hook and Eye, Loop Button, Button and Button Holes, Zipper	9

V	Sleeves (Prepare miniatures for the following) Sleeves - Types of Sleeves - Plain, Puffs – Gathered at Top and Bottom, Bell, Bishop, Circular, Leg-O-Mutton, Magyar Sleeves, Raglan, Dolmen and Kimono sleeves.	9
Total		45

Self-study	Different Types of Yokes, Pleats etc
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Textbooks:

1. Mary Mathews ,1986, “*Practical Clothing construction*” – Part I and II Cosmic Press, Chennai.
2. Chris Jeffreys, 2003, “*The Complete Book of Sewing*”, Dorling Kindersley Limited, London.

Reference Books:

1. Readers Digest, 1993, “*Sewing and Knitting: A Readers Digest, Step by step guide*”, Readers Digest, Pvt.Ltd.
2. Injoo Kim and Mykyung Uh,2002 “*Apparel Making in Fashion Design*”,Bloomsbury Publications, NewYork.
3. Sumathi G.J.2007, “*Elements of Fashion and Apparel Design*”, NewAge International (P) Ltd., New Delhi
4. Dorling Kindersley ,1986,*The complete Book of Sewing*, Dorling Kindersley Limited, London.
5. *Sewing and Knitting – A Readers Digest, step by step guide*, Readers Digest Pvt. Ltd,

Web Resources: <http://textilefashionstudy.com>

1. <https://fashion2apparel.blogspot.com/2017/07/classification-loom.html>
2. <https://www.inda.org/about-nonwovens>
3. <https://ncert.nic.in/vocational/pdf/ivsm103.pdf>
4. <https://www.masterclass.com/articles/7-different-types-of-seams-and-how-to-use-them-in-garments#7-different-types-of-seams>
5. <https://pdfcoffee.com/fashion-drawing--2-pdf-free.html>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	2	2	2	2
CO2	3	2	3	3	3	3	3	3	3	2	2
CO3	3	2	3	3	3	3	3	3	3	2	2
CO4	3	2	2	3	2	2	3	2	2	2	2
CO5	3	2	2	3	2	2	3	2	2	2	2
TOTAL	15	10	13	15	13	13	15	13	13	10	10
AVERAGE	3	2	2.6	3	2.6	2.6	3	2.6	2.6	2	2

3 – Strong, 2- Medium, 1- Low

SEMESTER I
ELECTIVE COURSE I: SEWING TECHNOLOGY

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU241EC1	4	-	-	-	3	4	60	25	75	100

Pre-requisite:

Basic knowledge and technical details of sewing machine

Learning Objectives:

1. To impart knowledge on basis of sewing and orients the learners in the field of costume design.
2. The learners are expected to know the sewing machineries, stitching mechanism, spreading methods in apparel industry

Course Outcomes

On the successful completion of the course, students will be able to:		
1	explain the stitching mechanism.	K1
2	demonstrate the Sewing Machineries	K2
3	apply the spreading methods and tools used for spreading	K2
4	analyse and evaluate the cutting technologies and its techniques.	K4
5	create the federal standards for stitch and stitch classification.	K5 & K6
K1 - Remember; K2 - Understand; K3 – Apply; K4 - Analyse; K5 - Evaluate; K6 - Create		

Units	Contents	No. of Hours
I	Sewing machineries Sewing machineries- classification of sewing machines, parts and functions of single needle machine, double needle machine, over lock machine, bar tacking machine, button hole making machine, button fixing machine, blind stitching machine, care and maintenance, common problems and remedies.	12
II	Stitching mechanism Stitching mechanism - Needle, Bobbin case, Bobbin and its winding, shuttle, shuttle hook, Loops and Loop spreader, threading finger, upper and lower threading, auxiliary hooks, throat plate, presser foot and its types, Take-up lever, Tension guide and their function	12
III	Spreading and marking Spreading methods and tools used for spreading, types of spreading. Marking methods - positioning marking, types of markers, efficiency of a marker plan, and requirements of marker planning	12
IV	Cutting technology Cutting technology – definition and function of cutting. Cutting equipment's and tools, Straight knife cutting machines, Rotary cutting machines, Band knife cutting machine, Die cutters, drills and computerized cutting machines. Pressing Equipment - purpose, pressing equipment's and methods – iron, steam press, steam air finisher, steam tunnel.	12

V	Stitches and seams as per Federal standards Definition and types of stitches and seams as per Federal standards - Application of stitches and seams in clothing. Brief study on various industrial finishing machines - Pressing, fusing, stain removing, needle detecting machines	12
Total		60

Self-study	History of Sewing, Uses of Seam Finishes, Basics of Hems, Piping, Standard Placket, Garment Accessories.
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Textbooks

1. Mary Mathews, 2001 “*Practical Clothing Construction*” Part-II. *Designing, Drafting and Tailoring Bhattarams Reprographics* (P) Ltd., Chennai .
2. Zarapkar K.R, 2005 “*System of Cutting*”, Navneet Publications India

Reference Books

1. Mary Mathews, 1986, “*Practical Clothing Construction*” – Part -I Cosmic Press, Chennai,
2. Harold Carr and Barbara Latham, 1994 “*Technology of Clothing Manufacture*” Wiley Publishers.
3. Gerry Cooklin, 1996 “*Introduction to clothing manufacture*”, Black well Science.
4. Gerry cooklin, 1996 “*Garment Technology for fashion designers*”, Blackwell Science Ltd.
5. Mary Mulasi, 1995 “*Garments with style*, Chiton Book Company, Pennsylvania.

Web Resources

1. <https://fashion2apparel.blogspot.com/2017/07/classification-loom.html>
2. <https://www.inda.org/about-nonwovens>
3. <https://ncert.nic.in/vocational/pdf/ivsm103.pdf>
4. <https://www.masterclass.com/articles/7-different-types-of-seams-and-how-to-use-them-in-garments#7-different-types-of-seams>
5. <https://pdfcoffee.com/fashion-drawing--2-pdf-free.html>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	2	3	3	2	2	2	2
CO2	3	2	2	3	2	3	3	2	2	2	2
CO3	3	2	3	3	3	3	3	2	3	3	2
CO4	3	2	2	3	2	3	3	2	2	3	2
CO5	3	2	2	3	2	3	3	3	2	2	2
TOTAL	15	10	11	15	11	15	15	11	11	12	10
AVERAGE	3	2	2.2	3	2.2	3	3	2.2	2.2	2.4	2

3 – Strong, 2- Medium, 1- Low

	Analogous colour harmony Complementary colour harmony Double complementary colour harmony Split complementary colour harmony Triad complementary colour harmony	
IV	Illustrate garment with the application of Elements of Design Line, Shape or form, Size, Texture	6
V	Illustrate garment with application of the Principles of Design Balance in dress Harmony in dress Emphasis in dress Proportion in dress Rhythm in dress	6
Total		30

Self-study	Illustrate the garment using principles and elements of design
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Textbooks:

1. Judith Rasband, 2008“*Fashion Details & Accessories Sketch Booklet*”, Margie Dobson and Becky Parkinson.
2. Ritu Beri, 2005, *Fashion Illustration and Rendering*, B. Jain Publishers (P) Ltd., New Delhi.

Reference Books:

1. Payal Jain, 2005. *Fashion Studies – An Introduction India*: Anand Publications Pvt., Ltd.
2. Elaine Stone, 2001. *The Dynamics of Fashion*. New York: Fair Child Publications.
3. Pooja Khurana and Monikasrthi, (2007). *Introduction to Fashion Technology*. New Delhi. Firewall Media Pvt, Ltd.
4. Navneetkaur, 2010. *Comdex Fashion Design, Vol-II Fashion Concepts*. New Delhi: Dream tech Press
5. Bina Abling (2001), *Fashion Rendering with Colours*, Prentice Hall, New Jersey

Web Resources:

1. <https://www.idrawfashion.com/>
2. <https://www.fashionistasketch.com/drawing-faces-fashion-illustration/>
3. <https://in.pinterest.com/pin/458804280762797371>
4. <https://wallhaveni.blogspot.com/2017/05/fashion-illustration-books-pdf.html#>
5. <https://pdfcoffee.com/fashion-drawing--2-pdf-free.html>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	3	2	3	3	2	3	2	2
CO2	2	2	3	2	2	2	2	2	2	3	1
CO3	2	3	3	3	2	1	3	2	3	3	2
CO4	3	2	2	2	3	2	2	3	2	2	2
CO5	3	2	3	2	3	2	2	3	2	3	2
TOTAL	12	12	13	12	12	10	12	12	12	13	9
AVERAGE	2.4	2.4	2.6	2.4	2.4	2	2.4	2.4	2.4	2.6	1.8

3 – Strong, 2- Medium, 1- Low

SEMESTER: I**NON-MAJOR ELECTIVE NME I: FASHION CONCEPT AND DESIGN**

Course Code	L	T	P	S	Credits	Inst.Hours	Total Hours	Marks		
								CIA	External	Total
DU231NM1	1	1	-	-	2	2	30	25	75	100

Pre-requisite

Basic knowledge on designs, fashion and accessories

Learning Objectives

- 1.To learn about the different designs used in fashion.
- 2.To study about different types and principles of designs

Course Outcomes

On the successful completion of the course, student will be able to:		
1	explain the terms of fashion used in fashion industry.	K1
2	develop dress designs on principles of design.	K2
3	design various types of dresses using colors.	K3
4	apply the elements of design used in various dresses	K3
5	illustrate different types of fashion accessories.	K3

K1 - Remember; **K2** - Understand; **K3** – Apply;

Units	Contents	No. of Hours
I	Terms in Fashion Industry Definition of Fashion, Style, Classic, Fad, Fashion cycle. Term related to fashion industry, Mannequin, Boutique, Collection, Fashion shows, Apparel catalogue, Fashion Clinic.	6
II	Elements of design Design–definition and types. Elements of design–Line, Shape, Size, texture, Color. Creating Variety in dress through elements of design.	6
III	Principles of design Design principles – Harmony, Proportion, Balance, Rhythm, Emphasis, and Application of principles in dress.	6
IV	Color Color–definition and qualities. Prang color chart. Color harmony – Monochromatic, Analogous, Complementary, color harmony.	6
V	Fashion accessories Fashion accessories–Shoes, Handbags, Hats, Ties–different types and shapes, Belt, Bow, Hair band, Shoes, Purse, File Cover.	6
Total		30

Self-study	Knock offs, Fashion direction, Fashion flow chart, Application of color on fashion figures
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Textbooks

1. Jung Soo Lee and Charlotte Jirousek, April 2015, *The Development of design ideas in the early apparel design process*. “International Journal of Fashion Design, Technology and

Education.”

2. Giny Stephen, Frings 2008” *Fashion from Concept to Consumer*’ Pearson Educations

Reference Books

1. Banister E, Hogg M, 2008, *Negative symbolic consumption and consumers’ drive for self-esteem: the case of the fashion industry*. European Journal of Marketing.
2. Behling D, Williams E A 2009 *Influence of dress on perception of intelligence and expectations of scholastic achievement*. Clothing and Textiles Research Journal.
3. Workman JE, Freeburg EW, 2011 *Victim dress, and perceiver variables within the context of attribution theory*.
4. Ravichandran P and Narasima R 2005”*Textile Marketing and Merchandising*”, SSM Institute of textile Technology.
5. Leste Davis Burns, Naran O Bryant 2002” *The business of Fashion*”, Fair child Publications, New York

Web Resources:

1. <https://www.idrawfashion.com/>
2. <https://www.fashionistasketch.com/drawing-faces-fashion-illustration/>
3. <https://in.pinterest.com/pin/458804280762797371>
4. <https://wallhaveni.blogspot.com/2017/05/fashion-illustration-books-pdf.html#>
5. <https://pdfcoffee.com/fashion-drawing--2-pdf-free.html>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	3	2	2	2
CO2	3	2	3	3	2	2	3	3	2	2	2
CO3	3	2	3	3	2	2	3	3	2	2	2
CO4	3	2	3	3	2	2	3	3	2	2	2
CO5	2	2	3	2	2	2	2	2	2	2	2
Total	14	10	15	14	10	10	14	14	10	10	10
Average	2.8	2	3	2.8	2	2	2.8	2.8	2	2	2

3– Strong, 2-Medium,1-Low

SEMESTER I
FOUNDATION COURSE: FASHION DESIGNING CONCEPTS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU241FC1	1	1	-	-	2	2	30	25	75	100

Pre-requisite

Basic knowledge on designs, fashion and accessories

Learning Objectives

- 1.To learn about the different designs used in fashion.
- 2.To study about different types and principles of designs

Course Outcomes

On the successful completion of the course, student will be able to:		
1.	explain the terms of fashion used in fashion industry.	K1
2.	develop dress designs on principles of design.	K2
3.	design various types of dresses using colors.	K3
4.	apply the elements of design used in various dresses	K3
5.	illustrate different types of fashion accessories.	K3

K1 - Remember; **K2** - Understand; **K3** – Apply

Units	Contents	No. of Hours
I	Design Design - definition and types- structural and decorative design, requirements of a good structural and decorative design in dress. Elements of design- line shape or form, colour and texture and its application in dress.	6
II	Principles of design Principles of design- Balance - formal and informal, rhythm- through repetition, radiation and gradation, emphasis, harmony and proportion and its application in dress.	6
III	Colour Colour- definition, colour theories - Prang colour chart, Dimensions of colour - Hue, Value and intensity, Munsell colour system and Standard colour harmonies	6
IV	Designing Dresses for Unusual Figures Designing dresses for unusual figures- becoming and unbecoming for the following figure types. Stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, small face, prominent chin and jaw, prominent forehead.	6
V	Fashion Evolution Fashion evolution – Fashion, style, fad and classic, Fashion cycles, Adoption of Fashion theories- Trickle down, trickle up and trickle across, fashion director, fashion editor, fashion leaders, fashion innovators, Fashion followers.	6
Total		30

Self-study	Knock offs, Fashion direction, Fashion flow chart, Application of color on fashion figures
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Textbooks

1. Jung Soo Lee and Charlotte Jirousek, April 2015, *The Development of design ideas in the early apparel design process*. "International Journal of Fashion Design, Technology and Education."
2. Giny Stephen, Frings 2008, *Fashion from Concept to Consumer*, Pearson Educations

Reference Books

1. Banister E, Hogg M, 2008, *Negative symbolic consumption and consumers' drive for self-esteem: the case of the fashion industry*. European Journal of Marketing.
2. Behling D, Williams E A 2009, *Influence of dress on perception of intelligence and expectations of scholastic achievement*. Clothing and Textiles Research Journal.
3. Workman JE, Freeburg E W 2011, *Victim dress, and perceiver variables within the context of attribution theory*.
4. Ravi Chandran P and Narasima R 2005'' *Textile Marketing and Merchandising*'', SSM Institute of textile Technology.
5. Leste Davis Burns, Naran O Bryant 2002''*The business of Fashion*'', Fair child Publications, New York

Web Resources:

1. <https://www.idrawfashion.com/>
2. <https://www.fashionistasketch.com/drawing-faces-fashion-illustration/>
3. <https://in.pinterest.com/pin/458804280762797371>
4. <https://wallhaveni.blogspot.com/2017/05/fashion-illustration-books-pdf.html#>
5. <https://pdfcoffee.com/fashion-drawing--2-pdf-free.html>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	3	2	2	2
CO2	3	2	3	3	2	2	3	3	2	2	2
CO3	3	2	3	3	2	2	3	3	2	2	2
CO4	3	2	3	3	2	2	3	3	2	2	2
CO5	2	2	3	2	2	2	2	2	2	2	2
Total	14	10	15	14	10	10	14	14	10	10	10
Average	2.8	2	3	2.8	2	2	2.8	2.8	2	2	2

3– Strong, 2-Medium,1-Low

SEMESTER I
SPECIFIC VALUE-ADDED COURSE: JEWELLERY DESIGN

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU231V01	1	1	-	-	1	2	30	25	75	100

Pre-requisite

Basic knowledge of rings, studs, necklace and pendants

Learning Objectives

1. The aim of this course is to impart knowledge on alternative materials and the techniques that can be used to create Jewellery.
2. This course aims to educate the students on the important categories and sub-types in Jewellery.
3. Students will have an in-depth knowledge of the various product types and their special features.

Course Outcomes

On the successful completion of the course, student will be able to:		
1.	explain the classification of rings	K1 & K2
2.	study the classification of studs	K2
3.	study in detail about pendants and necklace	K3
4.	study in detail about bangles and classification	K2
5.	study in detail about Brooches	K2

K1 - Remember; K2 - Understand; K3 - Apply

Units	Contents	No. of Hours
I	Rings Introduction and historical perspective on rings, Classification of rings- Bridal Rings wedding bands, engagement rings, bridal set rings, Solitaire rings, eternity rings, promise rings, Cluster rings, Right Hand rings, Cocktail rings, other fancy rings'	6
II	Earrings Classification of Studs & earrings, On the ear -Studs and buttons, Hanging style – Drops, danglers Hoop style- Huggies, Bali's etc., styles – Chandeliers, Shoulder dusters.	6
III	Pendants and Necklaces Introduction and historical perspective on Pendants, Classification of Pendants- Locketts, medallions, tassels, sliders etc,	6
IV	Bangles and Bracelets Introduction and historical perspective on Banglesand Bracelets, Classification- Bangles.	6
V	Brooches, tiepins and other product categories Introduction and historicalperspective, Brooches, cufflinks, tiepins.	6
	Total	30

Self-study	Classification of rings and bands,
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Text Books

1. Techniques of Jewellery Illustration and Colour Rendering by Adolfo Mattiello
2. Jewellery Concept & Technology by Oppi Untracht
3. Gem Stone of World

Reference Books

1. Jewellery Making Techniques
2. Stone identification and classification
3. Dance of peacock by Usha balkrishnan
4. Art deco jewellery design book

Web Resources

1. www.indyandi.com.handmadejewellery
2. www.jewelrycrust.in
3. www.jookart.in

**MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC
OUTCOMES**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	3	3	3	2	2	3	3	3
CO2	2	2	2	3	3	3	2	2	3	3	3
CO3	3	2	3	3	3	3	3	3	3	3	3
CO4	3	2	3	3	3	3	3	3	3	3	3
CO5	2	2	2	3	3	3	2	2	3	3	3
TOTAL	12	10	12	15	15	15	12	12	15	15	15
AVERAGE	2.4	2	2.4	3	3	3	2.4	2.4	3	3	3

3 – Strong, 2- Medium, 1- Low

SEMESTER I
SPECIFIC VALUE-ADDED COURSE I: SURFACE EMBELLISHMENT

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU231V02	1	1	-	-	1	2	30	25	75	100

Pre-requisite

Basic Knowledge of practicing Embroidery

Learning Objectives

- 1.To practice about the basic embellishment stitches
- 2.To create and implement a motif using decorative embroidery stitches.

Course Outcomes

On the successful completion of the course, student will be able to:		
1.	categorize different types of hand and traditional embroidery stitches used in India	K1
2.	select different colors of embroidery threads used for embroidery.	K2
3.	create the different types of trimmings used in various dresses for kids, women's and men's wear	K3
4.	implementation and analyze the motifs using basic embroidery stitches	K4
5	create and evaluate various design used for making stitches	K5 & K6

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

Units	Contents	No. of Hours
I	Create a Motif or a Design 1. Running Stitch 2. Stem 3. Back 4. Whipped 5. Blanket 6. Lazy daisy	6
II	Create a Motif or a Design 1. Chain 2. Double chain, 3. Couching 4. Herringbone 5.Fish bone 6.Feather – single and double	6
III	Create a Motif or a Design 1. Rumanian 2. Cross 3. Fly 4.Satin 5.Long and Short 6. French knot	6

IV	Create a Motif or a Design 1. Bullion knot 2. Double knot 3. Seed 4. Straight 5. Lettering 6. Alphabets and Monogram work	6
V	Create a Motif or a Design 1. Faggoting 2. Fringes 3. Drawn Thread Work 4. Tossels 5. Applique work and Lace 6. Sequence Work	6
Total		30
Self Study	Implementation of different types of stitches in small motif	

Textbooks

1. Shailaja D Naik, 1996, *Traditional Embroideries of India*, APH Publishing.
2. Megan Eckman, 2020, *Everyday Embroidery for Modern Stitchers*, C&T Publishing,

Reference Books

1. Libby Moore, Thread Folk 2019, *A Modern Makers Book of Embroidery Projects and Artist Collaborations*, Paige Tate & Co,
2. Shailaja D. Naik. D.1997, *Folk Embroidery and traditional handloom weaving*, KPH Publishing Corporation.
3. Nirmal C. Mistry, 1999, *Embroidery*, Naganeeth Publications Ltd.
4. Kit Pynan and Carole, 1982, *The Harmony Guide to Decorative Needle Craft*, Lyric Books Ltd.
5. Ritu, 1995, *Attractive Embroidery Designs*, Indica Publishers.

Web Resources

1. <https://www.youtube.com/watch?v=Ug2d1NUuE4A>
2. https://www.youtube.com/watch?v=uJ2SyeFA_B4
3. <https://www.youtube.com/watch?v=nJz9c8gEvF>
4. <https://www.fibre2fashion.com/industry-article/1942/machine-embroidery>
5. <https://www.fibre2fashion.com/industry-article/4135/history-of-embroidery>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	3	3	2	2	2
CO2	3	2	2	2	2	2	3	3	2	2	2
CO3	3	2	2	2	2	2	3	3	2	2	2
CO4	3	3	2	2	2	2	3	3	3	2	2
CO5	3	2	2	2	2	2	3	3	2	2	2
TOTAL	15	11	10	10	10	10	15	15	11	10	10
AVERAGE	3	2.2	2	2	2	2	3	3	2.2	2	2

3 – Strong, 2- Medium, 1- Low

SEMESTER I
SPECIFIC VALUE COURSES II: BASICS OF COSMETOLOGY

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU231V03	1	1	-	-	1	2	30	25	75	100

Pre-requisite

Basic knowledge about personal care

Learning Objectives

1. To gain knowledge about personal grooming
2. To enable the student to develop knowledge in dressing, make up to the Etiquettes.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	importance of cosmetology	K1
2	understand equipment used for pedicure, basic pedicure technique	K2
3	beware of equipment and techniques used for Manicure	K2
4	apply the face makeup	K3
5	analyze and evaluate the skin and hair	K4 & K5

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

Units	Contents	No. of Hours
I	Cosmetology – An Introduction Cosmetology – Introduction, Definition, and its importance-difference between beautician and Cosmetologist -features of a cosmetologist – Types and application- Self- grooming–definition and its importance	6
II	Pedicure Pedicure, definition, need for pedicure, tools and equipment used for pedicure, step by-step procedure of pedicure-, pedicure technique– benefits – difference between spa and regular pedicure - Pedicure safety	6
III	Manicure Manicure- equipment used for Manicure, Types- French, hot oil, dip power manicures- paraffin wax treatments -shaping of nails, removal of the cuticles, Mehendi-Classical, Arabic, Glitter, Painting and Nail Art – Nail Care.	6
IV	Skin and hair Structure and function of skin, Skin types, skin tones, tips for skin care and steps in basic facial. Care for skin and hair-Basic Hairstyles: Knotted style - Rolling style – Plaited style - Basic structure of skin and hair, Products available, skin and haircare, makeup for face and hairdo styles	6
V	Face makeup Face makeup - meaning, makeup application, Make-up types, shape and colour of Hair, hair care and hair styles for occasion. Basic Haircuts- Straight Trimming, “U”-cut and “V”– Cut.	6
Total		30

Self-study	Implementation of different types of stitches in small motif
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Textbooks

1. Neena Khanna,2011, *Body and Beauty Care*, Pustak Mahal Publishers.
2. Rashmi Sharma,2011, *Herbal Beauty & Body Care*. Pustak Mahal Publishers

Reference Books

1. Catherine M.Frangie. Milady,2014, *Standard cosmetology*, Milady Publishing Company.
2. Roshini Dayal ,2008,*Natural Beauty Secrets from India*, Tata publishing Enterprises. LLC,
3. P.J.Fitzgerald., *The complete book of Hairstyling*, Mansoor book house,(2003). Trinny woodwall, Sun sannal constantive,
4. Richa Dave,2006, *Make-up Album I*, Navneet Publication
5. Richa Dave,2008, *Make-up Album II*, Navneet Publication

Web Resources

1. <https://www.pharmacistdunia.com/2018/07/introduction-to-cosmetology.html>
2. <https://ncert.nic.in/vocational/pdf/kvbk103.pdf>
3. <https://www.health.harvard.edu/topics/skin-and-hair>
4. <https://www.colorescience.com/blogs/learn/how-to-apply-makeu>
5. <https://www.youtube.com/watch?v=Ug2d1NUuE4A>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	3	3	3	2	2	3	3	3
CO2	2	2	2	3	3	3	2	2	3	3	3
CO3	3	2	3	3	3	3	3	3	3	3	3
CO4	3	2	3	3	3	3	3	3	3	3	3
CO5	2	2	2	3	3	3	2	2	3	3	3
TOTAL	12	10	12	15	15	15	12	12	15	15	15
AVERAGE	2.4	2	2.4	3	3	3	2.4	2.4	3	3	3

3 – Strong, 2- Medium, 1- Low

SEMESTER II
CORE COURSE II: PATTERN MAKING AND GRADING

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU242CC1	5	-	-	-	5	5	75	25	75	100

Pre-requisite:

Basic knowledge about pattern components

Learning Objectives:

1. To enable the students to develop the ability to create design through flat pattern techniques.
2. To understand the pattern making and grading techniques and know about commercial pattern, fitting, alteration and layout methods.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	explain and understand pattern making methods and commercial pattern	K1&K2
2	apply the Grading Techniques for different styles	K3
3	analyse the Pattern making Technology.	K4
4	evaluate and check the good fit of a garment.	K5
5	create the pattern with required style and measurement and grade them.	K6

K1 - Remember; K2 - Understand; K – Apply; K4 - Analyse; K5 - Evaluate; K6 -Create

Units	Contents	No. of Hours
I	PATTERN MAKING METHODS Methods of pattern Making- Drafting, Draping and Flat pattern methods. Drafting Principles of drafting. Steps in drafting children's and adult's bodice and sleeve patterns. Flat pattern techniques-Definition, Pivot, Slash and Spread method.	15
II	COMMERCIAL PATTERN Study of commercial pattern and body measurements –Birth of commercial pattern, Preparation of commercial pattern. Body measurements – importance and Principles of taking body measurements. Method of taking body measurements for different garments.	15
III	PATTERN LAYOUT Pattern layout- Rules in pattern layout. Common methods for layout. Layout for asymmetrical designs, Bold designs, Checked and One-way design. Economy of fabrics in placing pattern-Adjusting the fabrics to patterns, Rules for placement of fabric if not sufficient.	15

IV	FITTING AND ALTERATION Fitting-Definition-Principles for good fit. Causes for poor fit, checking the fit of a garment, solving fitting problems in various garments, basic principles. Fitting techniques. Pattern alteration–importance of altering patterns. Principles for pattern alteration.	15
V	PATTERN GRADING Grading- Definition, Types (Manual and Computerized). Manual- Master Grade, Basic back, Basic Front, Basic collar. Computerized grading technology- Information Flow, System description, process involved in pattern grading.	15
Total		75

Self-study	Different varieties of pattern styles using Computerized grading Technology
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Textbooks:

1. Mary Mathews, 1986, *Practical Clothing construction*, – Part I and II Cosmic Press, Chennai.
2. Helen Joseph and Armstrong, 1987, *Pattern Making for Fashion Design*, Harper Collins publishers.

Reference Books:

1. Winfred Aldrich Metric, 1994, *Pattern Cutting*, Black well Science Ltd., England
2. Winfred Aldrich, 1994, *Metric Pattern Cutting for Men's Wear*, Black well Science Ltd., England
3. Winfred Aldrich, 1994, *Metric Pattern Cutting for children's wear*, Black well Science Ltd., England
4. Gerry cooking, 1992, *Pattern Grading for Men's clothes*, Blackwell Science Ltd., English.
5. Gerry cooking, 1990, *Pattern Grading for Women's clothes*, Blackwell Science Ltd., English.

Web Resources

1. <https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making>
2. <https://clothingindustry.blogspot.com/2018/01/pattern-making-garment.html>
3. <https://clothingindustry.blogspot.com/2017/12/body-measurements-dress.html>
4. http://www.brainkart.com/article/Pattern-Layout-and-Types-of-Pattern-Layouts_35623/
5. <https://www.evidhya.com/tutorials/tutorials.php?qid=771>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	3	2	2	2
CO2	3	2	3	3	2	2	3	3	2	2	2
CO3	3	2	3	3	2	2	3	3	2	2	2
CO4	3	3	3	3	3	3	3	3	3	3	2
CO5	3	2	3	3	3	3	3	3	3	3	2
TOTAL	15	11	15	15	12	12	15	15	12	12	10
AVERAGE	3	2.2	3	3	2.4	2.4	3	3	2.4	2.4	2

3 – Strong, 2- Medium, 1- Low

SEMESTER II
CORE LAB COURSE II: CONSTRUCTION OF CHILDREN'S WEAR

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU242CP1	-	-	3	-	3	3	45	25	75	100

Pre-requisite:

Basic knowledge about the Construction of children's wear garment

Learning Objectives

1. To make designs and patterns for various style of children's wear, practice suitable layout methods for the effective utilization of fabric
2. To apply various sewing techniques for achieving the finest garment finishing.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	describe and understand the measurements needed for construction of children's wear.	K1& K2
2	apply the layout and measurement methods to make kid's garments.	K3
3	analyze the various material suitable for constructing children's wear.	K4
4	evaluate the various design of children's wear.	K5
5	create new designs for kid's garments.	K6

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

- Designing, drafting and constructing the following garments for the features prescribed.
- List the required measurements and suitable materials.
- Calculate the material required-Layout method and direct measurement method. Calculate the cost of the garment

Units	Contents	No. of Hours
I	Construction of 1. Bib- Variation in outline shape 2. Panty- Plain or plastic lined panty	9
II	Construction of 1. Jabla- Without sleeve, front open (or) Magyar sleeve, back opens 2. A-Line petticoat- Double pointed dart, neck line and armhole finished with facing(or) petticoat with gathered waist.	9
III	Construction of 1. Yoke frock- Yoke at chest line, with open, puff sleeve, gathered skirt or frock with collar, without sleeve, gathered/circular skirt at waist line (or)Princess frock 2. Umbrella frock – Body, round skirt, no gathered, puff sleeve	9
IV	Construction of 1. Summer Frock –with strap 2. Knicker – elastic waist, side pockets	9

V	Construction of	9
	1. Shirt- open collar, with pocket 2. Pinafore- two strap, belt.	
Total		45

Self Study	School Uniform, Skirt Blouse
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Textbooks:

1. Mary Mathews, 1986, *Practical Clothing construction – Part I and II*, Cosmic Press, Chennai.
2. Zarapkar, 2012, *System of cutting*, Navneet publication (I) Pvt. Ltd.

Reference Books:

1. K.R. Zarapkar, 2017, *Zarapkar System of Cutting*, Navneet Publication Limited, New edition.
2. Juvekar. M.B, 1976, *Easy Cutting*, Sahitya Bhavan,
3. Juvekar. M.B. 1972, *Commercial system of cutting*, Commercial Tailors Corporation Pvt, Ltd, Mumbai,
4. Thomas & Anna Jacob, 1993, *Art of Sewing*, New Delhi: Ubs Publishers Distributors Ltd
5. Jefferys, chris, 1997, *Essential Tips basic sewing*, New York: Dorling Kindersley.

Web Resources:

1. <https://sewguide.com/sewing-for-children/>
2. <https://sewguide.com/frock-pattern-sewing/>
3. <https://www.itsalwaysautumn.com/pinafore-dress-pattern.html>
4. https://en.wikipedia.org/wiki/Children%27s_clothing
5. <https://www.bigcommerce.com/blog/baby-kids-ecommerce-design>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	2	2	3	3	2	2	2
CO2	3	2	3	3	2	2	3	3	2	2	2
CO3	3	2	3	3	2	2	3	3	2	2	2
CO4	3	2	3	3	3	3	3	3	3	3	2
CO5	3	2	3	3	3	3	3	3	3	3	2
TOTAL	15	10	15	15	12	12	15	15	12	12	10
AVERAGE	3	2	3	3	2.4	2.4	3	3	2.4	2.4	2

3 – Strong, 2- Medium, 1- Low

SEMESTER II
ELECTIVE COURSE II: TECHNOLOGY OF WET PROCESSING

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU242EC1	3	1	-	-	3	4	60	25	75	100

Pre-requisite:

Basic knowledge about Pre-treatments of Dyeing and Printing process

Learning Objectives

1. To know the concept of textile processing in cotton, silk, wool and synthetic materials
2. To explain about the preparatory process

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify the principles and mechanisms of sequence of process in textile wet processing	K1
2	explain the various process in textile industry.	K2
3	apply the dyeing, printing and finishing techniques in textile industry.	K3
4	analyze the materials and equipment used in textile processing.	K4
5	evaluate and create the various textile wet processing involves in textile industry.	K5&K6

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

Units	Contents	No. of Hours
I	PREPARATORY PROCESSES Preparatory processes - typical sequence of wet processing. Singeing – objects and types of Machines. Desizing – objects, types. Scouring - objects and processes carried out during scouring. Wet processing equipment – Kier, J – Box, Stenter. Bleaching – Definition and objectives, Bleaching methods using Hypo chlorites, hydrogen peroxide, Sodium chlorite. Mercerization- Theory process, Methods – Chain and Chainless process.	12
II	DYEING Dyeing– Definition, Theory of dyeing, Properties required for dye stuff, classification of colorants. Dyeing procedure using various dye stuffs – Direct dyes, Reactive dyes, Acid dyes, basic dyes, Azo dyes, Vat dyes, Sulphur dyes, Disperse dyes. Yarn dyeing, Package dyeing, Fabric dyeing and Garment dyeing.	12
III	PRINTING & ITS METHODS Printing – definition differentiate dyeing and printing. Essential ingredients used in printing paste. Basic styles of printing – direct, Discharge, Resist style. Printing of Cellulose Fabric, Printing of Polyester and Nylon. Printing methods – Stencil, Batik, Block, tie and Dye. Printing techniques in Industries – Screen, Hand screen, Flat Screen, Rotary Screen, Transfer Printing.	12
IV	AESTHETIC OF FINISHING Introduction to finishing – Definition, Importance, Classification. Mechanical Finishing – Sanforising – calendaring – Brushing – Decating – Milling.	12

	Chemical finishing – wash and wear finishing, durable finish, Stiff Finish, Denim Finish, Application of silicones in finishing processes	
V	FUNCTIONAL FINISHING Functional finishes –water proof finishes, water repellent finish, flame retardant finish, soil release finish, antimicrobial finish. Nano Technology in Textile finishing.	12
Total		60

Self-study	Fabric Preparatory Processing, Dyeing Techniques, Types of Textile Finishes
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Textbooks

- 1 A. Shenai, 1975, *Technology of textile processing*, Vol 1-2, Sevak Publications .
- 2 Mohammad Shahid, Guoqiang Chen, 2018, *Handbook of Textile Coloration and Finishing* Published by Studium press llc,

Reference Books

1. Chakravarthy RR and Trivedi S.S. 1979, *Technology of Bleaching and Dyeing of Textile Fibres* ,Vol.1 Part–I, Mahajan Book Publishers.
2. Shenai V.A.1996, *Technology of Finishing*, Sevek Publications, Mumbai
3. Manivasaga. N,2000, *Treatment of Textile Processing Effluents*, Sakti Publications.
4. Carman B.P ,2000, *Fiber to fabric, International Students Edition MC Graw Hill Book Co.*, Singapore.
5. Clarke, W.2004, *An Introduction to Textile Printing*, Wood Head Publishing Limited.

Web Resources

1. <https://www.sciencedirect.com/topics/engineering/textile-wet-processing>
2. <https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html>
<https://textechdip.wordpress.com/contents/wet-processing/-1>
3. <https://textechdip.wordpress.com/contents/wet-processing/>
4. [https://global-standard.org/certification-and-labelling/who-needs-to-becertified/wetprocessing#:~:text=Wet%2DProcessing%20is%20the%20processing,%2C%20finishing%2C%20lau ndry%2C%20etc.](https://global-standard.org/certification-and-labelling/who-needs-to-becertified/wetprocessing#:~:text=Wet%2DProcessing%20is%20the%20processing,%2C%20finishing%2C%20lau%20ndry%2C%20etc.)
5. <https://textechdip.wordpress.com/contents/wet-processing/>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	3	3	3	2	3	3
CO2	3	2	3	3	2	3	3	3	2	3	3
CO3	3	3	2	3	2	3	3	3	3	2	3
CO4	3	2	3	3	2	3	3	3	2	3	3
CO5	3	2	3	3	2	3	3	3	2	3	3
TOTAL	15	11	14	15	10	15	15	15	11	14	15
AVERAGE	3	2.2	2.8	3	2	3	3	3	2.2	2.8	3

3 – Strong, 2- Medium, 1- Low

SEMESTER II
ELECTIVE LAB COURSE II: TEXTILE WET PROCESSING LABORATORY

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU242EP1	-	-	2	-	2	2	30	25	75	100

Pre-requisite:

They learn about the different Pretreatments and Dyeing process in textile industry.

Learning Objectives:

1. To know the concept and do the Pretreatments in textile processing
2. To Know and apply the different types of dyeing process based on the suitability of fabric

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify the preparatory process of the textile material	K1
2	demonstrate various kinds of dyeing techniques	K2
3	apply skills in different methods of printing and their techniques	K3
4	analyze and evaluate the dyes used for suitable fabrics	K4
5	evaluate and create different samples by using different styles of printing.	K5 & K6
K1 - Remember; K2 - Understand; K3 – Apply; K4 - Analyse; K5 - Evaluate; K6 - Create		

Units	Contents	No. of Hours
I	Preparation of samples for Processing 1. Color Fastness to Washing 2. Color Fastness to Laundrometer 3. Color Fastness to Light	6
II	Preparation of samples for Processing 1. Desizing 2. Scouring 3. Peroxide Bleaching 4. Hypochlorite Bleaching 5. Mercerizing	6
III	Dye the given fabric using suitable dye 1. Direct Dye 2. Hot Brand Reactive Dyes 3. Cold Brand Reactive Dyes	6
IV	Dye the given fabric using suitable dye 1. Acid Dyes 2. Basic Dyes 3. Sulphur Dyes 4. Vat Dyes.	6
V	Print the given fabric by following printing techniques. 1. Batik 2. Block and Stencil	6

	3.Tie and Dye 4.Hand Screen Printing	
Total		30

Self-study	Fabric Preparatory Processing, Dyeing Techniques, Printing Techniques
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Textbooks

1. A.Shenai , 1975,*Technology of textile processing* , Vol 1-2,Sevak Publications .
2. Mohammad Shahid, Guoqiang Chen, 2018*Handbook of Textile Coloration and Finishing'*
Published by Studium press llc,

Reference Books

1. V.A.Shenai, 1981 "*Technology of Textile Processing* " Vol III, V, VII, VIII, Sevak Publications, Bombay.
2. P.V.Vidyasagar ,1998 "*Hand book of Textiles*" Mittal Publication.
3. Marsh J.T.Chapman and Hall , 1948, "*An Introduction to Textile Finishing*" London
4. Carbmán B.P ,2000, "*Fiber to fabric, International Students Edition MC Graw Hill Book Co.*, Singapore
5. Clarke, W.2004," *An Introduction to Textile Printing,*" Wood Head Publishing Limited

Web Resources

1. <https://www.sciencedirect.com/topics/engineering/textile-wet-processing>
2. <https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html>
[//https://textechdip.wordpress.com/contents/wet-processing/-1](https://textechdip.wordpress.com/contents/wet-processing/-1)
3. <https://textechdip.wordpress.com/contents/wet-processing->
4. [https://global-standard.org/certification-and-labelling/who-needs-to-becertified/wetprocessing#:~:text=Wet%2DProcessing%20is%20the%20processing,%2C%20ofinishing%2C%20lau ndry%2C%20etc.](https://global-standard.org/certification-and-labelling/who-needs-to-becertified/wetprocessing#:~:text=Wet%2DProcessing%20is%20the%20processing,%2C%20ofinishing%2C%20lau%20ndry%2C%20etc.)
5. <https://textechdip.wordpress.com/contents/wet-processing>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	3	3	3	2	3	3
CO2	3	2	3	3	2	3	3	3	2	3	3
CO3	3	3	2	3	2	3	3	3	3	2	3
CO4	3	2	3	3	2	3	3	3	2	3	3
CO5	3	2	3	3	2	3	3	3	2	3	3
TOTAL	15	11	14	15	10	15	15	15	11	14	15
AVERAGE	3	2.2	2.8	3	2	3	3	3	2.2	2.8	3

3 – Strong, 2- Medium, 1- Low

SEMESTER II
NON-MAJOR ELECTIVE NME II: SURFACE EMBELLISHMENTS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU232NM1/ DU242NM1	1	1	-	-	2	2	30	25	75	100

Pre-requisite

Basic knowledge in Surface Embroidery

Learning Objectives

1. To inherit embroidery skills by hand and machine
2. To appreciate the beauty and intricacies of the traditional embroideries of India

Course Outcomes

On the successful completion of the course, student will be able to:		
1.	study the hand embroidery samples.	K1
2.	develop samples using surface enrichment	K2
2.	apply the machine embroidered samples in various fabric	K3
4.	analyse and evaluate samples for drawn thread embroidery, applique, quilting	K4& K5
5.	create added structural effects using smocking.	K6

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

Units	Contents	No. of Hours
I	HAND EMBROIDERY STITCHES Hand embroidery Stitches–Running, Stem, Back, Whipped, Blanket, Lazy daisy, Chain, Double chain, Couching, Herringbone, Fish bone, Feather –single and double.	6
II	KNOTS&ITS TYPES Rumanian, Cross, Fly, Satin, Long and Short, French Knot, Bullion Knot, Double Knot, Seed, Straight, Lettering–Alphabets and Monogram Work.	6
III	TRADITIONAL INDIAN EMBROIDERY Kashida of Kashmir, Kantha of Bengal, Phulkari of Punjab, Embroidery of Kutch and Kathiawar, Zari embroidery, Kasuti of Karnataka, Chikankari of Lucknow	6
IV	SURFACE TRIMMINGS AND DECORATIONS Creating style through surface trimmings and Bias trimmings, Ric-Rac, Ruffles, Smocking, Faggoting, Drawn thread work, Cutwork, Belts and Bows	6
V	QUILTING, PATCHWORK, APPLIQUE WORK: Velvet, plain, printed appliqué. Mirror work, Sequins, patch work, Beadwork, Shadow work, Fabric painting–using Fabric Colors, Glitters, Pastes.	6
TOTAL		30

Self- Study	Different Types of Embroidery Stitches, Different Types of Knots
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Textbooks

- 1.ShailajaD.Naik.D.1997, *Folk Embroidery and traditional handloom weaving*. KPH Publishing Corporation.
2. Reader's Digest, *Complete Guide to Needle Work*.

Reference Books

- 1.NirmalC.Mistry 1999, *Embroidery*,Naganeeth Publications Ltd.
- 2, Kit Pynanand Carole,1982, *The Harmony Guide to Decorative Needle Craft* ,Lyric Books Ltd.
- 3.ShailajaM.andNaik.D.1996, *Traditional Embroideries of India*, KPH Publishing Corporation.
- 4.Richard M. Jones.2006, *The Apparel Industry*, Blackwell Science, U.K.,
- 5.Laing R.M., and Webster J.1999, *Stitches & Seams*, The Textile Institute, India,1999,

Web Resources:

- 1.<https://www.fibre2fashion.com/industry-article/1942/machine-embroidery>
2. <https://www.fibre2fashion.com/industry-article/4135/history-of-embroidery>
3. https://fleming.ca.uky.edu/files/clothing_storage.pdf
- 4.https://www.threadsmagazine.com/assets/pdf/download/TH_SewingMadeSimple_Sample.pdf
5. <https://ncert.nic.in/vocational/pdf/ivsm103.pdf>

**MAPPING WITH PROGRAMME OUTCOMES AND
PROGRAMMESPECIFICOUTCOMES**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	3	2	2	2
CO2	3	2	3	3	2	2	3	3	2	2	2
CO3	3	2	3	3	2	2	3	3	2	2	2
CO4	3	2	3	3	2	2	3	3	2	2	2
CO5	2	2	3	2	2	2	2	2	2	2	2
Total	14	10	15	14	10	10	14	14	10	10	10
Average	2.8	2	3	2.8	2	2	2.8	2.8	2	2	2

3– Strong, 2-Medium,1-Low

SEMESTER II
SKILL ENHANCEMENT COURSE SEC I: FASHION SKETCHING LAB
COURSE

Course Code	L	T	P	S	Credits	Inst.Hours	Total Hours	Marks		
								CIA	External	Total
DU242SE1	-	-	2	-	2	2	30	25	75	100

Pre-requisite

Basic drawing skills

Learning Objectives

1. To impart skills in drawing and coloring.
2. To illustrate garment sketches for children, women and men.

Course Outcomes

On the successful completion of the course, student will be able to:		
1	sketch and remember the parts of the body in various perspectives.	K1
2	understand the different views of male and female face	K2
3	illustrate and apply garment designs for children	K3
4	analyse the garment designs for women.	K4
5	evaluate and create garment designs for men	K5 & K6

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

Units	Contents	No. of Hours
I	Illustrate the Following in Different Perspectives Instructions—Create for male and female <ul style="list-style-type: none"> • Eyes. • Ears • Nose • Lips • Hairstyles • Arms • Leg. 	6
II	Sketch the face of male and female in different views <ul style="list-style-type: none"> • Front view • Three quarter turned view • Profile view(sideview) 	6
III	Illustrate the Following Children's Garments Instructions—Create designs and Colour using any medium <ul style="list-style-type: none"> • Bib • Jabla with knicker • Baba suit • Frocks 	6
IV	Illustrate the Following Children's Garments Instructions—Create designs and Colour using any medium <ul style="list-style-type: none"> • Skirts • Ladies tops • Salwar 	6

	<ul style="list-style-type: none"> • Kameez • Maxi/ Gown • Dungarees 	
V	Illustrate the Following Men's Garments Instructions –Create designs and Colour using any medium <ul style="list-style-type: none"> • T-Shirts • Shirts • Pants • Kurta • Pyjama 	6
TOTAL		30

Self- Study	Illustrate the types of Women's Garments
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Textbooks

1. Ireland Patrick John,1982, *Fashion Design Drawing and Presentation*, Pavilion Books.
2. Ireland Patrick John,1995, *Fashion Design Illustration: Children*, John, BT Batsford Ltd.

Reference Books

1. Kiper Anna, David& Charles ,2011, *Fashion Illustration*, ISBN:9780715336182.
2. Julian Seaman , 2001,*Foundation in fashion design and illustration*, Batsford Publishers.
3. Ireland Patrick John and Fasmen,1996 “*Fashion Design Illustration*” BT Batsford Ltd,
4. Payal Jain, 2005.*Fashion Studies – An Introduction India*: Anand Publications Pvt., Ltd.
5. Elaine Stone, 2001.*TheDynamics of Fashion. NewYork*: Fair Child Publications.

Web Resources:

1. <https://www.idrawfashion.com/>
2. <https://www.fashionistasketch.com/drawing-faces-fashion-illustration/>
3. <https://in.pinterest.com/pin/458804280762797371>
4. <https://wallhaveni.blogspot.com/2017/05/fashion-illustration-books-pdf.html#>
5. <https://pdfcoffee.com/fashion-drawing--2-pdf-free.html>

**MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME
SPECIFIC OUTCOMES**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	3	3	2	2	2	2
CO2	2	2	3	2	2	2	2	2	2	3	3
CO3	2	2	3	2	2	1	3	2	2	3	3
CO4	3	3	2	3	3	2	2	3	3	2	2
CO5	3	3	3	3	3	2	2	3	3	3	3
Total	12	12	13	12	12	10	12	12	12	13	13
Average	2.4	2.4	2.6	2.4	2.4	2	2.4	2.4	2.4	2.6	2.6

3– Strong, 2-Medium,1-Low

SEMESTER I & II
LIFE SKILL TRAINING I: CATECHISM

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG232LC1	1	-	-	-	1	1	15	50	50	100

Objectives:

1. To develop human values through value education
2. To understand the significance of humane and values to lead a moral life

On the successful completion of the course, student will be able to:		
1	understand the aim and significance of value education	K1,K2
2	develop individual skills and act confidently in the society	K3
3	learn how to live lovingly through family values	K3
4	enhance spiritual values through strong faith in God	K6
5	learn good behaviours through social values	K6

K1 - Remember K2-Understand; K3-Apply; K6- Create

Units	Contents	No. of Hours
I	Value Education: Human Values – Types of Values – Growth – Components – Need and Importance - Bible Reference: Matthew: 5:3-16	3
II	Individual Values: Esther Vanishing Humanity – Components of Humanity – Crisis – Balanced Emotion – Values of Life - Bible Reference: Esther 8:3-6	3
III	Family Values: Ruth the Moabite Respecting Parents – Loving Everyone – Confession – True Love Bible Reference: Ruth 2:10-13 Spiritual Values: Hannah Faith in God – Wisdom – Spiritual Discipline – Fear in God – Spiritually Good Deeds -Bible Reference: 1 Samuel 1:24-28	3
IV	Social Values: Deborah Good Behaviour – Devotion to Teachers – Save Nature – Positive Thoughts – The Role of Youth in Social Welfare - Bible Reference: Judges 4:4-9	3
V	Cultural Values: Mary of Bethany Traditional Culture – Changing Culture – Food – Dress – Habit – Relationship – Media – The Role of Youth - Bible Reference: Luke 10:38-42	3
	Total	15

Textbook

Humane and Values. Holy Cross College (Autonomous), Nagercoil
The Holy Bible

SEMESTER I & II
LIFE SKILL TRAINING I: MORAL

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG232LM1	1	-	-	-	1	1	15	50	50	100

Learning Objectives:

1. To develop human values through value education
2. To understand the significance of humane and values to lead a moral life
3. To make the students realize how values lead to success

Course Outcomes

On the successful completion of the course, student will be able to:		
1	understand the aim and significance of value education	K1,K2
2	develop individual skills and act confidently in the society	K3
3	learn how to live lovingly through family values	K3
4	enhance spiritual values through strong faith in God	K6
5	learn good behaviours through social values	K6

K1 - Remember K2-Understand; K3-Apply; K6- Create

Units	Contents	No. of Hours
I	Value Education: Introduction – Limitations – Human Values – Types of Values – Aim of Value Education – Growth – Components – Need and Importance	3
II	Individual Values: Individual Assessment – Vanishing Humanity – Components of Humanity – Crisis – Balanced Emotion – Values of Life.	3
III	Family Values: Life Assessment – Respecting Parents – Loving Everyone – Confession – True Love.	3
IV	Spiritual Values: Faith in God – Wisdom – Spiritual Discipline – Fear in God – Spiritually Good Deeds.	3
V	Social Values: Good Behaviour – Devotion to Teachers – Save Nature – Positive Thoughts – Drug Free Path – The Role of Youth in Social Welfare. Cultural Values: Traditional Culture – Changing Culture – Food – Dress – Habit – Relationship – Media – The Role of Youth.	3
	Total	15

Textbook

Humane and Values. Holy Cross College (Autonomous), Nagercoil

SEMESTER III
CORE COURSE III: PATTERN MAKING AND GRADING

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233CC1	5	-	-	-	5	5	75	25	75	100

Pre-requisite

Basic knowledge about pattern components

Learning Objectives

1. To enable the students to develop the ability to create design through flat pattern techniques.
2. To understand the pattern making and grading techniques and know about commercial pattern, fitting, alteration and layout methods

Course Outcomes

On the successful completion of the course, students will be able to:		
1	explain and understand the pattern making methods and commercial pattern	K1&K2
2	apply the Grading Techniques for different styles	K3
3	analyse the Pattern making Technology.	K4
4	evaluate and check the good fit of a garment.	K5
5	create the pattern with required style and measurement and grade them.	K6

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

Units	Contents	No. of Hours
I	PATTERN MAKING METHODS Methods of Pattern Making- Drafting, Draping and Flat pattern methods. Drafting-Principles of drafting. Steps in drafting children's and adult's bodice and sleeve patterns. Flat pattern techniques-Definition, Pivot, Slash and Spread method.	15
II	COMMERCIAL PATTERN Study of commercial pattern and body measurements –Birth of commercial pattern, Preparation of commercial pattern. Body measurements –importance and Principles of taking body measurements. Method of taking body measurements for different garments.	15
III	PATTERN LAYOUT Pattern layout- Rules in pattern layout. Common methods for layout. Layout for asymmetrical designs, Bold designs, Checked and One-way design. Economy of fabrics in placing pattern-Adjusting the fabrics to patterns, Rules for placement of fabric if not sufficient.	15
IV	FITTING AND ALTERATION Fitting-Definition-Principles for good fit. Causes for poor fit, checking the fit of a garment, solving fitting problems invarious garments, basic principles. Fitting techniques. Pattern alteration–importance of altering patterns. Principles for pattern alteration.	15
V	PATTERN GRADING Grading- Definition, Types (Manual and Computerized). Manual- Master Grade, Basic back, Basic Front, Basic collar. Computerized grading	15

technology- Information Flow, System description, process involved in pattern grading.	
Total	75

Self-study	Different varieties of pattern styles using Computerized grading Technology
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Textbooks:

1. Mary Mathews, 1986, *Practical Clothing construction* – Part I and II Cosmic Press, Chennai.
2. Helen Joseph, Armstrong, 1987, *Pattern Making For fashion Design*, Harper Collins publishers.

Reference Books:

1. Winfred Aldrich Metric, 1994, *Pattern Cutting*, Black well Science Ltd., England
2. Winfred Aldrich, 1994, *Metric Pattern Cutting for Men's Wear*, Black well Science Ltd., England
3. Winfred Aldrich, 1994, *Metric Pattern Cutting for children's wear*, Black well Science Ltd., England
4. Gerry cooking, 1992, *Pattern Grading for Men's clothes*, Blackwell Science Ltd., English.
5. Gerry cooking, 1990, *Pattern Grading for Women's clothes*, Blackwell Science Ltd., English.

Web Resources

1. <https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making>
2. <https://clothingindustry.blogspot.com/2018/01/pattern-making-garment.html>
3. <https://clothingindustry.blogspot.com/2017/12/body-measurements-dress.html>
4. http://www.brainkart.com/article/Pattern-Layout-and-Types-of-Pattern-Layouts_35623/
5. <https://www.evidhya.com/tutorials/tutorials.php?qid=771>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	3	2	2	2
CO2	3	2	3	3	2	2	3	3	2	2	2
CO3	3	2	3	3	2	2	3	3	2	2	2
CO4	3	3	3	3	3	3	3	3	3	3	2
CO5	3	2	3	3	3	3	3	3	3	3	2
TOTAL	15	11	15	15	12	12	15	15	12	12	10
AVERAGE	3	2.2	3	3	2.4	2.4	3	3	2.4	2.4	2

3 – Strong, 2- Medium, 1- Low

SEMESTER III
CORE LAB COURSE III: CONSTRUCTION OF WOMEN'S WEAR

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233CP1	-	-	3	-	3	3	45	25	75	100

Pre-requisite

Basic knowledge to construct women's garment

Learning Objectives

1. To make designs and patterns for various styles of women's wear.
2. To estimate the fabric requirement for garment based on its style and suitable layout methods for the effective utilization of fabric

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify and understand selection of suitable fabric for garment construction.	K1 & K2
2	apply the measurements to draft a basic block pattern for women's wear.	K3
3	analyze the drafting procedure for different styles.	K4
4	evaluate the fabric requirement and cost calculation based on the garment style.	K5
5	create and construct different style variations from the basic block pattern.	K6

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

Sl. No.	Contents	No. of Hours
1	Six Gore Saree Petticoat -Six Panel, Decorated bottom	4
2	Skirts- Circular/panel/pleated with style variations	4
3	Salwar /Chudithar/ Parallels	4
4	Kameez – With / Without slit, style variation in neck and sleeves	4
5	Blouse - Front Open, style variation in neck, Waist band at front, with sleeve	4
6	Sleep wear- Pyjamas suit/Nighty- with or without sleeve, lace	5
7	Ladies Pant – Waist band, Tight fitting / Parallel pants, with or without zip	5
8	Jump suit – With or without sleeve, with rope or elastic at waist, with zip or button	5
9	Kurthi- Style variation in collar, with placket with or without seam pocket	5
10	Gown- With or without Yoke, style variation in neck, A-line /panel/Circular, Decorated bottom and sleeve	5
Total		45

Self-study	Pyjama, Saree Petticoat, Skirt tops
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Textbooks

1. Dr. Ambedkar Road Dadar. 1999, *Easy cutting*, Juvekar commercial Tailors Corporation pvt.
2. Dr. Ambedkar Road Dadar. 1999, *Commercial system of cutting - Juvekar commercial Tailors Corporation pvt.*

Reference Books

1. Cooklin and Gerry, 1996, *Pattern Cutting Form Women's Outerwear*, Black Well Science, USA

2. Mathews, Mary , 1985, *Practical Clothing Constructions (designing Drafting and Tailoring)*, Sree Meenakshi Publications, Karaikudi .
3. Sodhia, Manmeet, 2003, *Garment Construction*, Kalyani Publishers, Delhi.
4. K.R Zarapker , 1999, *Zarapker system of cutting*, Navneet publication ltd.
5. Jefferys, chris, 1997, *Essential Tips basic sewing*, New York: Dorling Kindersley

Web Resources

1. <https://www.fibre2fashion.com/industry-article/3730/fashion-designing-the-then-and-now>
2. <https://sewguide.com/frock-pattern-sewing/>
3. <https://www.itsalwaysautumn.com/pinafore-dress-pattern.html>
4. https://en.wikipedia.org/wiki/Children%27s_clothing
5. <https://www.bigcommerce.com/blog/baby-kids-ecommerce-design>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	2	2	2	2	2	2
CO2	3	2	2	3	2	2	3	3	3	2	2
CO3	3	2	2	3	2	2	3	3	3	2	2
CO4	3	3	3	3	2	2	3	3	3	3	3
CO5	3	2	3	3	2	2	3	3	3	2	2
TOTAL	14	11	12	15	10	10	14	14	14	11	11
AVERAGE	2.8	2.2	2.4	3	2	2	2.8	2.8	2.8	2.2	2.2

3 – Strong, 2- Medium, 1- Low

SEMESTER III
ELECTIVE COURSE III: TECHNOLOGY OF WET PROCESSING

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233EC1	3	1	-	-	3	4	60	25	75	100

Pre-requisite:

Basic knowledge in Pretreatments of Dyeing and Printing process.

Learning Objectives

1. To know the concept of textile processing in cotton, silk, wool and synthetic materials.
2. To explain about the preparatory process

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify the principles and mechanisms of sequence of process in textile wet processing	K1
2	explain the various process in textile industry.	K2
3	apply the dyeing, printing and finishing techniques in textile industry.	K3
4	analyze the materials and equipment used in textile processing.	K4
5	evaluate and create the various textile wet processing involves in textile industry.	K5 & K6

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

Units	Contents	No. of Hours
I	PREPARATORY PROCESSES Preparatory processes - typical sequence of wet processing. Singeing – objects and types of Machines. Desizing – objects, types. Scouring - objects and processes carried out during scouring. Wet processing equipment – Kier, J – Box, Stenter. Bleaching – Definition and objectives, Bleaching methods using Hypo chlorites, hydrogen peroxide, Sodium chlorite. Mercerization- Theory process, Methods – Chain and Chainless process.	12
II	DYEING METHODS Dyeing– Definition, Theory of dyeing, Properties required for dye stuff, classification of colorants. Dyeing procedure using various dye stuffs – Direct dyes, Reactive dyes, Acid dyes, basic dyes, Azo dyes, Vat dyes, Sulphur dyes, Disperse dyes. Yarn dyeing, Package dyeing, Fabric dyeing and Garment dyeing.	12
III	PRINTING & ITS METHODS Printing – definition differentiate dyeing and printing. Essential ingredients used in printing paste. Basic styles of printing – direct, Discharge, Resist style. Printing of Cellulose Fabric, Printing of Polyester and Nylon. Printing methods – Stencil, Batik, Block, tie and Dye. Printing techniques in Industries – Screen, Hand screen, Flat Screen, Rotary Screen, Transfer Printing.	12
IV	AESTHETIC OF FINISHING Introduction to finishing – Definition, Importance, Classification. Mechanical Finishing – Sanforising – calendaring – Brushing – Decating – Milling. Chemical finishing – wash and wear finishing, durable finish, Stiff Finish, Denim Finish, Application of silicones in finishing processes	12

V	FUNCTIONAL FINISHING Functional finishes –water proof finishes, water repellent finish, flame retardant finish, soil release finish, antimicrobial finish. Nano Technology in Textile finishing.	12
Total		60

Self-study	Fabric Preparatory Processing, Dyeing Techniques, Types of Textile Finishes
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Textbooks

1. Shenai .A., 1975, *Technology of textile processing*, Vol 1-2,Sevak Publications .
2. Mohammad Shahid, Guoqiang Chen, 2018, *Handbook of Textile Coloration and Finishing* , Published by Studium press llc,

Reference Books

1. Chakravarthy RR and Trivedi S.S. 1979, *Technology of Bleaching and Dyeing of Textile Fibres* “Vol.1 Part–I, Mahajan Book Publishers.
2. Shenai V.A.1996, *Technology of Finishing*, Sevek Publications, Mumbai
3. Manivasaga. N,2000, *Treatment of Textile Processing Effluents*, Sakti Publications.
4. Carbman B.P ,2000, *Fiber to fabric, International Students Edition MC Graw Hill Book Co.,* Singapore.
5. Clarke, W.2004, *An Introduction to Textile Printing*, Wood Head Publishing Limited.

Web Resources

1. <https://www.sciencedirect.com/topics/engineering/textile-wet-processing>
2. <https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html>
<https://textechdip.wordpress.com/contents/wet-processing/-1>
3. <https://textechdip.wordpress.com/contents/wet-processing/->
4. <https://global-standard.org/certification-and-labelling/who-needs-to-be-certified/wet-processing#:~:text=Wet%2DProcessing%20is%20the%20processing,%2C%20finishing%2C%20lau ndry%2C%20etc.>
6. <https://textechdip.wordpress.com/contents/wet-processing>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	3	3	3	2	3	3
CO2	3	2	3	3	2	3	3	3	2	3	3
CO3	3	3	2	3	2	3	3	3	3	2	3
CO4	3	2	3	3	2	3	3	3	2	3	3
CO5	3	2	3	3	2	3	3	3	2	3	3
TOTAL	15	11	14	15	10	15	15	15	11	14	15
AVERAGE	3	2.2	2.8	3	2	3	3	3	2.2	2.8	3

3- Strong, 2- Medium, 1- Low

SEMESTER III**ELECTIVE LAB COURSE III: TEXTILE WET PROCESSING LABORATORY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233EP1	-	-	2	-	2	2	30	25	75	100

Pre-requisite

Basic knowledge in pretreatments of Dyeing process in textile industry.

Learning Objectives

1. To know the concept and do the Pretreatments in textile processing
2. To Know and apply the different types of dyeing process based on the suitability of fabric.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify the preparatory process of the textile material	K1
2	demonstrate various kinds of dyeing techniques	K2
3	apply the skills in different methods of printing and their techniques	K3
4	analyze and evaluate the dyes used for suitable fabrics	K4 & K5
5	create different samples by using different styles of printing.	K6

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

Units	Contents	No. of Hours
I	Preparation of samples for Processing 1. Color Fastness to Washing 2. Color Fastness to Laundrometer 3. Color Fastness to Light	6
II	Preparation of samples for Processing 1. Desizing 2. Scouring 3. Peroxide Bleaching 4. Hypochlorite Bleaching 5. Mercerizing	6
III	Dye the given fabric using suitable dye 1. Direct Dye (Any two Natural Dyes) 2. Hot Brand Reactive Dyes 3. Cold Brand Reactive Dyes	6
IV	Dye the given fabric using suitable dye 1. Acid Dyes 2. Basic Dyes 3. Sulphur Dyes 4. Vat Dyes.	6
V	Print the given fabric by following printing techniques. 1. Batik 2. Block and Stencil 3. Tie and Dye 4. Hand Screen Printing	6
Total		30

Self-study	Fabric Preparatory Processing, Dyeing Techniques, Printing Techniques
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Textbooks:

- 1.A. Shenai, 1975, *Technology of Textile processing*, Vol 1-2, Sevak Publications .
2. Mohammad Shahid, Guoqiang Chen, 2018, *Handbook of Textile Coloration and Finishing* Published by Studium press llc,

Reference Books

1. V.A.Shenai, 1981, *Technology of Textile Processing*, Vol III, V, VII, VIII, Sevak Publications, Bombay.
2. P.V.Vidyasagar ,1998, *Hand book of Textiles*, Mittal Publication.
3. Marsh J.T.Chapman and Hall , 1948, *An Introduction to Textile Finishing*, London
4. Carbmam B.P ,2000, *Fiber to fabric*, International Students Edition MC Graw Hill Book Co., Singapore
5. Clarke, W.2004, *An Introduction to Textile Printing*, Wood Head Publishing Limited

Web Resources

1. <https://www.sciencedirect.com/topics/engineering/textile-wet-processing>
2. <https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html>
<https://textechdip.wordpress.com/contents/wet-processing/-1>
3. [https://textechdip.wordpress.com/contents/wet-processing/-](https://textechdip.wordpress.com/contents/wet-processing/)
4. [https://global-standard.org/certification-and-labelling/who-needs-to-be certified/wet processing#:~:text=Wet%2DProcessing%20is%20the%20processing,%2C%20finishing%2C%20lau ndry%2C%20etc.](https://global-standard.org/certification-and-labelling/who-needs-to-be-certified/wet-processing#:~:text=Wet%2DProcessing%20is%20the%20processing,%2C%20finishing%2C%20lau ndry%2C%20etc.)
5. <https://textechdip.wordpress.com/contents/wet-processing>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	3	3	3	2	3	3
CO2	3	2	3	3	2	3	3	3	2	3	3
CO3	3	3	2	3	2	3	3	3	3	2	3
CO4	3	2	3	3	2	3	3	3	2	3	3
CO5	3	2	3	3	2	3	3	3	2	3	3
TOTAL	15	11	14	15	10	15	15	15	11	14	15
AVERAGE	3	2.2	2.8	3	2	3	3	3	2.2	2.8	3

3 – Strong, 2- Medium, 1- Low

SEMESTER III
SKILL ENHANCEMENT COURSE II: INDIAN TEXTILES AND COSTUMES

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233SE1	2	-	-	-	2	2	30	25	75	100

Pre-requisite

Basic knowledge in Indian Textiles and Costumes

Learning Objectives

1. To know about the traditional woven textiles in India
2. To know about the costumes of India

Course Outcomes

On the successful completion of the course, students will be able to:		
1	learn about different kinds of woven textile material	K1
2	understand the usage of ancient techniques	K2
3	compare and apply contrast the various costumes of India	K3
4	identify and evaluate different states of embroideries of India	K4&K5
5	create the traditional saree in India	K6

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

Units	Contents	No. of Hours
I	ORIGIN AND GROWTH OF COSTUME Beginning and growth of costume - Painting, Cutting and Tattooing. Traditional Accessories and Ornaments used in India.	6
II	WOVEN, DYED AND PRINTED TEXTILES OF INDIA Study of woven, dyed and printed textiles of India - Bhandhani, Patola, Kalamkari, Dacca Muslin, Banarasi, Chanderi brocades, Baluchar, Himrus and Amrus, Kashmir shawl, Pochampalli, Silk sarees of Kancheepuram	6
III	TRADITIONAL COSTUME OF DIFFERENT STATES IN INDIA Traditional costume of different states in India - Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Maharashtra, Rajasthan, Haryana, Uttar Pradesh, Jammu and Kashmir, Gujarat.	6
IV	INDIAN JEWELLERY Indian Jewellery – jewelleries used in the period of Indus valley civilization, Mauryan period, Gupta Period, the Pallava and Chola Period, Symbolic Jewellery of South India, Mughal period. Temple Jewellery of South India, Tribal jewellery	6
V	TRADITIONAL EMBROIDERIES OF INDIA Traditional embroideries of India – Origin, Embroidery stitches used, embroidery of Kashmir, Phulkari of Punjab, Gujarat – Kutch and Kathiawar, embroidery of Rajasthan, Kasuti of Karnataka, Chicken work of Lucknow, Kantha of Bengal - types and colours of fabric /thread.	6
Total		30

Self-study	Types of Sarees, Saree Draping Techniques.
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Textbooks

1. M.L Nigam, 1999, *Indian Jewellery*, Lustre Press Pvt Ltd, India
2. G. H Ghosrye, 2000, *Indian Costume*, G.H Ghosrye, Popular books Pvt Ltd

Reference Books

1. Jamila Brij Bhushan, D B Taraporevala Sons & Co, 1958, *The costumes and textiles and India*— Co, Bombay
2. Dorris Flyn, 1971, *Costumes of India*, Oxford & IBH Publishing Co, Delhi.
3. Das S.N, D B, Taraporevala Sons and Co, 1956, *Costumes of India and Pakistan*, Bombay.
4. M.L. Nigam, 1999, *Indian Jewellery*, Lustre Press Pvt Ltd, India.
5. Jamila Brij Bushan, D B Taraporevala Sons & Co, 1958, *The Costumes and Textiles of India*, Bombay.

Web Resources

1. <https://www.fibre2fashion.com/industry-article/427/indian-traditional-dressing>
2. <https://ordnur.com/garments->
3. quick-look-on-history-of-traditional-clothing-in-india/
4. <https://textilevaluechain.in/in-depth-analysis/articles/traditional-textiles/history-of-indian-costumes/>
5. <https://indiashine.net/traditional-clothing-in-india>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	1	3	1	2	1	2	3	1	2	1
CO2	2	3	2	3	2	3	2	2	3	2	3
CO3	3	3	3	3	2	2	3	3	3	2	2
CO4	2	3	3	3	3	2	3	3	3	3	2
CO5	2	3	3	3	3	3	3	3	3	3	3
TOTAL	10	13	14	13	12	11	13	14	13	14	11
AVERAGE	2	2.6	2.8	2.6	2.4	2.2	2.6	2.8	2.6	2.8	2.2

3- Strong, 2- Medium, 1- Low

SEMESTER III / IV**SKILL ENHANCEMENT COURSE SEC-III: FITNESS FOR WELLBEING**

Course Code	L	T	P	S	Credits	Total Hours	Marks		
							CIA	External	Total
UG23CSE1	1	-	1	-	2	30	25	75	100

Pre-requisites:

Basic understanding of health and wellness concepts

Learning Objectives

1. To understand the interconnectedness of physical, mental, and social aspects of well-being, and recognize the importance of physical fitness in achieving holistic health.
2. To develop proficiency in mindfulness techniques, yoga practices, nutritional awareness, and personal hygiene practices to promote overall wellness and healthy lifestyle.

Course Outcomes

On the successful completion of the course, student will be able to:		
1	know physical, mental, and social aspects of health	K1
2	understand holistic health and the role of physical fitness.	K2
3	apply mindfulness and yoga for stress management and mental clarity.	K3
4	implement proper personal hygiene practices for cleanliness and disease prevention.	K3
5	evaluate and implement right nutritional choices.	K5

K1-Remember; K2-Understand; K3-Apply; K5-Evaluate

Unit	Contents	No. of Hours
I	Understanding Health and Physical Fitness Health – definition- holistic concept of well-being encompassing physical, mental, and social aspects. Physical fitness and its components- muscular strength- flexibility, and body composition. Benefits of Physical Activity- its impact on health and well-being.	6
II	Techniques of Mindfulness Mind – Mental frequency, Analysis of Thought, Eradication of Worries - Breathing Exercises – types and its importance. Mindfulness – Pain Management - techniques for practicing mindfulness - mindfulness and daily physical activities.	6
III	Foundations of Fitness Stretching techniques to improve flexibility. Yoga-Definition, yoga poses (asanas) for beginners, Sun Salutations (Surya Namaskar), Yoga Nidra – benefits of yoga nidra.	6
IV	Nutrition and Wellness Role of nutrition in fitness - macronutrients, micronutrients - mindful eating practices, balanced diet - consequences of overeating. Components of healthy food. Food ethics.	6
V	Personal Hygiene Practices Handwashing- techniques, timing, and importance, oral hygiene- brushing, flossing, and dental care, bathing and showering- proper techniques and frequency, hair care- washing, grooming, and maintaining cleanliness, maintaining personal hygiene, dangers of excessive cosmetic use.	6
	Total	30

Self-study	Balance diet and basic exercises
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Textbook:

Bojaja A. Rosy and Virgin Nithya Veena. V. 2024. *Fitness for Wellbeing*.

Reference Books:

1. Arul Raja Selvan S. R, 2022. *Yogasanam and Health Science*. Self publisher.
2. Vision for Wisdom. 2016. *Value Education*. The World Community Service Centre Vethathiri Publications.
3. WCSC – Vision for Wisdom. 2016. *Paper 1: Yoga and Empowerment*. Vazhga Valamudan Offset Printers Pvt Ltd 29, Nachiappa St, Erode.
4. Lachlan Sleigh. 2023. *Stronger Together the Family's Guide to Fitness and Wellbeing*. Self Publisher.
5. William P. Morgan, Stephen E. Goldston. 2013. *Exercise And Mental Health*. Taylor & Francis.

Web Resources:

1. https://www.google.co.in/books/edition/Psychology_of_Health_and_Fitness/11YOAwAABAJ?hl=en&gbpv=1&dq=fitness+for+wellbeing&printsec=frontcover
2. https://www.google.co.in/books/edition/The_Little_Book_of_Active_Wellbeing/aA6SzgEACAAJ?hl=en
3. https://www.google.co.in/books/edition/Physical_Activity_and_Mental_Health/yu96DwAAQBAJ?hl=en&gbpv=1&dq=fitness+for+wellbeing&printsec=frontcover
4. https://www.google.co.in/books/edition/The_Complete_Manual_of_Fitness_and_Well/pLPA_XPLIMv0C?hl=en&gbpv=1&bsq=fitness+for+wellbeing&dq=fitness+for+wellbeing&printsec=frontcover
5. https://www.google.co.in/books/edition/The_Wellness_Code/4QGZtwAACAAJ?hl=en

SEMESTER III
SPECIFIC VALUE-ADDED COURSE: TRADITIONAL EMBROIDERY

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233V01	1	1	-	-	1	2	30	25	75	100

Pre-requisite

Knowledge in basic embroidery stitches and its variation

Learning Objectives

1. To practice about the basic embellishment stitches.
2. To create and implement a motif using decorative embroidery stitches.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	to enable and understand the hands-on practice about the advanced stitches in surface embellishment	K1
2	experimental application of advanced embroidery stitches using various motif	K2
3	implementation of motifs using basic embroidery stitches.	K3
4	evaluate and analyse motif using decorative embroidery stitches.	K5 & K6
2	creation of decorative embroidery designs.	K6

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

Units	Contents	No. of Hours
I	1. Running Stitch 2. Whipped running stitch 3. Back stitch 4. Whipped back stitch 5. Stem Stitch 6. Chain stitch	6
II	1. Magic Chain Stitch 2. Lazy Daisy 3. French Knot 4. Bullion Knot 5. Herring Bone Stitch 6. Cross Stitch	6
III	1. Quilting 2. French Smocking 3. Chinese Smocking 4. Satin Stitch 5. Feather Stitch 6. Mixed Blanket Stitch 7. Ribbon Blanket Stitch	6
IV	1. Kashida of Kashmir 2. Kantha of Bengal 3. Zari embroidery 4. Kasuti of Karnataka 5. Chikankari of Lucknow	6

V	Application of Design on a garment using different types of stitches (Minimum 5)	6
Total		30

Self-study	Implementation of different types of stitches in small motif
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Textbooks

1. Shailaja D Naik, 1996, *Traditional Embroideries of India*, APH Publishing.
2. Megan Eckman, 2020, *Everyday Embroidery for Modern Stitchers*, C&T Publishing,

Reference Books

1. Libby Moore, Thread Folk 2019, *A Modern Makers Book of Embroidery Projects and Artist Collaborations*, Paige Tate & Co,
2. Shailaja D. Naik. D.1997, *Folk Embroidery and traditional handloom weaving*, KPH Publishing Corporation.
3. Nirmal C. Mistry, 1999, *Embroidery*, Naganeeth Publications Ltd.
4. Kit Pynan and Carole, 1982, *The Harmony Guide to Decorative Needle Craft*, Lyric Books Ltd.
5. Ritu, 1995, *Attractive Embroidery Designs*, Indica Publishers.

Web Resources

1. <https://www.youtube.com/watch?v=Ug2d1NUuE4A>
2. https://www.youtube.com/watch?v=uJ2SyeFA_B4
3. <https://www.youtube.com/watch?v=nJz9c8gEvF>
4. <https://www.fibre2fashion.com/industry-article/1942/machine-embroidery>
5. <https://www.fibre2fashion.com/industry-article/4135/history-of-embroidery>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	2	2	3	3	2	2	2
CO2	3	3	2	2	2	2	3	3	2	2	2
CO3	3	3	2	2	2	2	3	3	2	2	2
CO4	3	3	2	2	2	2	3	3	3	2	2
CO5	3	3	2	2	2	2	3	3	2	2	2
TOTAL	15	15	10	10	10	10	15	15	10	10	10
AVERAGE	3	3	2	2	2	2	3	3	2	2	2

3 – Strong, 2- Medium, 1- Low

SEMESTER III**SPECIFIC VALUE-ADDED COURSE: PRINCIPLES OF INTERIOR DECORATION**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233V02	1	1	-	-	1	2	30	25	75	100

Pre-requisite

Basic Knowledge in Interior Decoration

Learning Objectives

1. To explain the good interior design in the house and the elements of design
2. To create the interior of the house with unique ideas

Course Outcomes

On the successful completion of the course, students will be able to:		
1	remember the principles and concepts of interior decoration	K1
2	understand the needs and factors for household products	K2
3	apply the elements of design in interior decoration	K3
4	analyse and evaluate the design standardization	K4 & K5
5	evaluate the development of modern decor styles	K6

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

Units	Contents	No. of Hours
I	OVERVIEW OF INTERIOR DECORATION AND HOUSING Overview of interior decoration - Importance of decoration, Principles of interior decoration, Concepts of interior design. Need and importance of housing-Factors influencing selection of site-Factors to be considered for good housing, ventilation.	6
II	ELEMENTS OF INTERIOR DESIGN AND DECORATION Design-definition-kinds of design. Elements of design-space, light, line, colour, form, texture, pattern. Role of walls – roofs, floors, staircase, doors and windows light colour and texture along with furniture in making interior schemes and spaces.	6
III	PRINCIPLES OF DESIGNS IN INTERIOR DECORATION Principles of Design-Harmony and its application in Interior decoration, Balance– Symmetry and Asymmetry, Rhythm, Proportion – color proportion, proportion in shape, proportion of space, proportion of light, textural proportion Emphasis.	6
IV	USE OF COLOUR IN INTERIOR DESIGN Classification of colours – primary, binary, intermediate, tertiary and quaternary. Quality of colour, Hue value, Intensity, Prang Colour system, colour and emotion, use of colour in interior decoration	6
V	HOME FURNISHINGFOR INTERIOR DESIGN Care and selection of furniture in dining room, office, bed room, living room. Criteria for selection of furniture – theme, size, material and make, fabrics, etc.	6
Total		30

Self-study	Elements of Interior Design and Family Housing
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Textbooks

1. Chaudhari, S.N. 2006, *Interior Design*. Aavishkar Publishers, Jaipur.
2. Premavathy Seetharaman and Parveen Pannu, 2009. *Interior Design and Decoration*. CBS Publishers and Distributors Pvt. Ltd. New Delhi.

Reference Books

1. Goldstein, 1976. *Art in Every Day Life*. Oxford and IBH Publishing House.
2. Kasu, A.A. 2005, *Interior Design*, Ashish Book center Delhi.
3. Andal. A and Parimalam.P2008.*A Text Book of Interior Decoration*. Satish Serial Publishing House.
4. Alexander. N. G ,1972, *Designing interior environment Mascourt*, Bizucovanorich.Inc, Newyork.
5. Harry N. Abrams, Ethel Rompilla, 2005, *Colour for Interior Design*.

Web Resources

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

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	2	3	3	2	2	2
CO2	2	2	2	2	2	2	3	3	2	2	2
CO3	2	2	2	2	2	2	3	3	2	2	2
CO4	3	3	2	2	2	2	3	3	3	2	2
CO5	2	2	2	2	2	2	3	3	2	2	2
TOTAL	11	11	10	10	10	10	15	15	11	10	10
AVERAGE	2.2	2.2	2	2	2	2	3	3	2.2	2	2

3 – Strong, 2- Medium, 1- Low

SEMESTER III**SPECIFIC VALUE-ADDED COURSE: GARMENT ACCESSORIES AND TRIMS**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233V03	1	1	-	-	1	2	30	25	75	100

Pre-requisite

Knowledge about the types of accessories and trims used in garment

Learning Objectives

1. To educate about various types of trims and accessories used in apparels
2. To teach about the quality requirements.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	distinguish the types of accessories used in garment	K1
2	differentiate the types of fibers used in making sewing and embroidery threads	K2
3	apply the various types of closures used in apparels.	K3
4	analyse and evaluate about the various types of trims used	K4 & K5
5	create the quality requirements for poly bag and carton box	K5

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

Units	Contents	No. of Hours
I	GARMENT ACCESSORIES Introduction to garment accessories – Selecting garment accessories- Types of garment accessories: Basic accessories - Decorative accessories - Finishing accessories –Accessories for children's-choking hazards-Decorative trims and Embellishments.	6
II	SEWING AND EMBROIDERY THREADS Sewing threads – Textile fibers used for making sewing threads – Thread Construction – Ticket Number – Quality parameters applicable to sewing threads and testing–Thread packages -Embroidery threads	6
III	CLOSURES Zippers – Component parts –Types – Application techniques – Quality parameters and testing-Buttons– types –Elastic – Application techniques – Types –Drawstrings – Method of application- Velcro Method of application techniques –Snap fastness–Types– Method of application. Hooks – types– Methods of application –Quality Norms.	6
IV	SUPPORTING AND DECORATIVE TRIMS Lining: Importance - Method of application – Interlining: Importance – Types - Method of application –Fusing foam: importance– Types– Method of application– Label and its types – Method application on garment – Quality requirements –Lace – Importance and its types –Method of application – Appliqué: Importance –Types of materials–Application methods.	6
V	PACKING ACCESSORIES Tags and its types– Polybags and its types-Quality norms pertaining to	6

	polybags–Hangers and its types – Cartons and its types –Factors to be considered for export cartons – Wrappers and Tissues – Pouches for innerwear–Latest innovation in packing accessories.	
Total		30

Self-study	Sequins: Introduction about various sequins and their types – Application techniques– Quality requirements.
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Textbooks

1. Diamond Professor Emeritus Jay , Diamond Adjunct Faculty, Ellen., 2006, *Fashion Apparel Accessories and Home Furnishings*, Prentice Hall.
2. Celia Stall-Meadows, Tana Stuffle bean , 2003, *Know Your Fashion Accessories*,

Reference Books

1. David J.Tyler, 2009 Carrand Latham"s *Technology of Clothing Manufacture*.
2. Jacob Solinger ,1988, *Apparel Manufacturing Handbook*, Analysis, Principles and Practice, Bobbin Media Corporation,
3. Shailaja D. Naik. D.1997, *Folk Embroidery and traditional handloom weaving.*, KPH Publishing Corporation.
4. Nirmal C. Mistry, 1999, *Embroidery*, Naganeeth Publications Ltd.
5. Kit Pynan and Carole, 1982, *The Harmony Guide to Decorative Needle Craft*, Lyric Books Ltd.

Web Resources

1. <https://www.youtube.com/watch?v=Ug2d1NUuE4A>
2. https://www.youtube.com/watch?v=uJ2SyeFA_B4
3. <https://www.youtube.com/watch?v=nJz9c8gEvF>
4. <https://www.fibre2fashion.com/industry-article/1942/machine-embroidery>
5. <https://www.fibre2fashion.com/industry-article/4135/history-of-embroidery>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2	2	3	3	2	3	2	2
CO2	3	2	3	2	2	3	3	2	3	2	2
CO3	3	2	3	2	2	3	3	2	3	2	2
CO4	3	2	3	2	2	3	3	2	3	2	2
CO5	3	2	3	2	2	3	3	2	3	2	2
TOTAL	15	10	15	15	10	15	15	10	15	10	10
AVERAGE	3	2	3	3	2	3	3	2	3	2	2

3 – Strong, 2- Medium, 1- Low

SEMESTER III/V
SELF LEARNING COURSE SLC I: SUSTAINABLE FASHION

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233SL1/ DU235SL1	-	-	-	-	1	-		25	75	100

Pre-requisite

Basic knowledge about Sustainability of Fashion Industry

Learning Objectives

1. To learn about ethical fashion.
2. To learn about Eco textiles and Eco friendly fashion label

Course Outcomes

On the successful completion of the course, students will be able to:		
1	understand and remember the sustainability of fashion industry	K1 & K2
2	apply ecofriendly and eco textiles fashion labels	K3
3	analyze ethical fashion.	K4
4	evaluate sustainable fashion products.	K5
5	create upcycled / downcycled products	K6

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

Units	Contents
I	Sustainability in Fashion Introduction: Fashion, Sustainability, Pillars of sustainability, Sustainable fashion – meaning and importance.
II	Fashion and Clothing Clothing lifecycle, clothing care, fast and slow fashion, clothes repair and re-use
III	Ethical Fashion Concepts of recycling and upcycling. Carbon footprint, water footprint and energy consumption of fashion industry.
IV	Green Consumerism Eco-textiles, green consumerism and waste reduction, consumer responsibility towards sustainable fashion. 3Rs – Reduce, Reuse and Recycle.
V	Sustainable Fashion Brands and Labels Sustainable fashion designers, sustainable fashion brands, Eco-friendly fashion labels

Textbooks

1. Black, S, Thames and Hudson, 2013. *Sustainable Fashion Handbook*,
2. Fletcher K, Lawrence ,2008, *Sustainable Fashion and Textiles- A Design Journey*, K, King Publishing.

Reference Books

1. Yamase K, Interweave, 2012, *Cut up Couture- Edgy Upcycled Garments to Sew*.,
2. Fletcher K, Lawrence ,2010, *Sustainable Fashion and Textiles- A Design Journey*, K, King Publishing
3. Phillips J , 2013, *Sustainable Luxe- A Guide to Feel Good Fashion*, Create Space Publishing.

4. Fletcher K, Lawrence, 2012, Fashion and Sustainability-Design for Change, King Publishing.
5. Meenakshi Rastogi, 2009. *Textile Forming*. Sonali Publications

Web Resources

1. <https://www.coursera.org/learn/sustainable-fashion>
2. <https://www.edx.org/course/circular-fashion-in-a-sustainable-clothingindustry>
3. <https://www.my-mooc.com/en/mooc/sustainable-fashion/>
4. <https://www.sustainablefashionmatterz.com/what-is-sustainable-fashion>
5. https://www2.cs.arizona.edu/patterns/weaving/books/pea_fa_1.pdf

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	3	3	2	2	2	2
CO2	2	1	3	2	2	2	2	2	1	3	2
CO3	2	2	3	2	2	1	3	2	2	3	2
CO4	3	2	2	2	2	2	2	3	1	2	2
CO5	3	3	3	2	2	2	2	3	3	3	2
TOTAL	12	10	13	10	10	10	12	12	10	13	10
AVERAGE	2.4	2	2.6	2	2	2	2.4	2.4	2	2.6	2

3 – Strong, 2- Medium, 1- Low

SEMESTER IV
CORE COURSE IV: TEXTILE TESTING AND QUALITY CONTROL

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU234CC1	5	-	-	-	5	5	75	25	75	100

Pre-requisite

Basic knowledge in Textile Testing and Quality Control

Learning Objectives

1. To Identify the type of fibres.
2. To test the yarn count and fabric count.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	explain the textile and quality control	K1
2	agree the standard and specification in textile industry.	K2
3	apply and analyze the identification of textile fibres	K3 & K4
4	identify and evaluate the yarn analyze in textile industry.	K5
5	assess and create the fabric analyze in testing	K6

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

Units	Contents	No. of Hours
I	Textile and Quality Control Introduction to Textile and Quality Control – Definition, General Aspects of Textile Testing and Quality Control, Routine Tests Performed in Textile Industry, Benefits of Testing, International Standards for Textile and Apparel Testing.	15
II	Fibre Analysis Identification of Textile Fibre – Burning, Solvent, Longitudinal and Cross-Sectional View of Cotton, Wool, Polyester, Nylon, Acrylic Fibres, Cotton Fibre Length, Cotton Fibre Strength, Fibre Fineness and Nep Potential – Trash.	15
III	Yarn Analysis Yarn Numbering, Yarn Strength, Twist Testing, Additional Test for Fibres and Yarn – Microscope, Weight Method, Air Flow Method, Wet Strength and Elongation of Filament Yarn, Crimp.	15
IV	Fabric Analysis Length, Width, Bow, Skewness, Weight, Thickness, Breaking Strength, Abrasion Resistance, Crease Recovery, Stiffness of fabrics and Drapability.	15
V	Standards and specification Standards and specification in Textile Industry, Quality Control Aspects, Colour Fastness tests in Textiles-Crocking, Perspiration, Sunlight, Laundering.	15
Total		75

Self-study	AFIS, Instron Tester, Kawabatta System
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Textbooks

1. Booth J.E. 1996, *Principles of Textile Testing*, CBS Publishers.
2. Elliot. B.Grover and Hamby. D.S., *Textile Testing and Quality Control*, Eastern Ltd.,

Reference Books

1. Satish K. Bhardwaj and Pradip, V. Metha,2000,*Managing Quality in Apparel Industry*, New age International Publishers
2. CorbmannB.P , 1985,*Textiles–Fibre to fabric, International students edition*, Mc Graw Hill. Book company, Singapore.
3. Isabel Barnum Wingate, 1964, *Textile fabrics and their Selection*, Published by Prentice Hall.
4. Max M.Houck , 2009,*Identification of Textile Fibers*, Ist Edition ,Woodhead Publishing in textiles, Cambridge, New delhi.
5. Gohi , 2005,*Textile science*, CBS Publishers and Distributors, India.

Web Resources

1. <https://textilelearners.com/textile-fibers-identification-process>
2. <https://www.textilesphere.com/2020/04/identification-of-textile-fibers.html>
3. <https://www.youtube.com/watch?v=nJz9c8gEvF>
4. <https://www.fibre2fashion.com/industry-article/1942/machine-testing>
5. <https://www.fibre2fashion.com/industry-article/4135/history-of-testing>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	3	3	2	2
CO2	3	3	2	3	2	2	3	3	3	3	3
CO3	3	2	3	3	2	2	3	3	3	2	2
CO4	3	2	3	3	2	2	3	3	3	3	3
CO5	3	2	3	3	2	2	3	3	3	3	3
TOTAL	15	11	11	15	10	10	15	15	15	13	13
AVERAGE	3	2.2	2.2	3	2	2	3	3	3	2.6	2.6

3 – Strong, 2- Medium, 1- Low

SEMESTER IV**CORE LAB COURSE IV: TEXTILE TESTING AND QUALITY CONTROL LABORATORY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU234CP1	-	-	3	-	3	3	45	25	75	100

Pre-requisite

Basic knowledge about Textile Testing and Quality Control;

Learning Objectives

1. Identify the type of fibres.
2. Test the yarn count and fabric count.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	learn and develop the techniques used for clothing care.	K1
2	demonstrate the yarn testing machines.	K2
3	apply the techniques used for clothing care.	K3
4	analyze the calculation of fabric testing	K4
5	evaluate and create the fabric testing methods.	K5 &K6

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

Units	Contents	No. of Hours
I	Fiber FibreTesting Longitudinal view test using Microscope Fibre Length using BaerSorter Burning Test Chemical Test	9
II	Yarn Testing Yarn Count using Wrap Reel and ElectronicBalance Yarn Count Beesley Balance and QuadrantBalance	9
III	YarnTesting Yarn Twist using Twist tester Yarn Strength using Lea StrengthTester	9
IV	Fabric Testing Fabric length and Width Fabric thickness Fabric Weight Bursting Strength Crease Recovery	9
V	Fabric Testing Stiffness Drape Fabric warp and weft Crimp Rubbing fastness Washing fastness	9

	Perspiration Fastness Light Fastness	
Total		45

Self-study	Shaffield Micronaire, Trash Analyser
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Textbooks

1. Booth J.E. 1996, *Principles of Textile Testing*, CBS Publishers.
2. Elliot. B.Grover and Hamby. D.S., *Textile Testing and Quality Control*, Eastern Ltd.,

Reference Books

1. Satish K. Bhardwaj and Pradip, V. Metha, 2000, *Managing Quality in Apparel Industry*, New age International Publishers
2. Corbmann B.P , 1985, *Textiles–Fibre to fabric*, International students edition”, Mc Graw Hill. Book company, Singapore.
3. Isabel Barnum Wingate, 1964, *Textile fabrics and their Selection*, Published by Prentice Hall.
4. Max M.Houck , 2009, *Identification of Textile Fibers*, 1st Edition , Woodhead Publishing in textiles, Cambridge, New delhi.
5. Gohi , 2005, *Textile science*, CBS Publishers and Distributors, India.

Web Resources

1. <https://textilelearners.com/textile-fibers-identification-process>
2. <https://www.textilesphere.com/2020/04/identification-of-textile-fibers.html>
3. <https://www.youtube.com/watch?v=nJz9c8gEvF>
4. <https://www.fibre2fashion.com/industry-article/1942/machine-testing>
5. <https://www.fibre2fashion.com/industry-article/4135/history-of-testing>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	3	3	3	2	2
CO2	3	3	2	3	2	2	3	3	3	3	3
CO3	3	2	3	3	2	2	3	3	3	2	2
CO4	3	2	3	3	2	2	3	3	3	3	3
CO5	3	2	3	3	2	2	3	3	3	3	3
TOTAL	15	11	11	15	10	10	15	15	15	13	13
AVERAGE	3	2.2	2.2	3	2	2	3	3	3	2.6	2.6

3 – Strong, 2- Medium, 1- Low

SEMESTER IV
ELECTIVE COURSE IV: FABRIC STRUCTURE AND DESIGN

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU234EC1	3	-	-	-	3	4	60	25	75	100

Pre-requisite

Basic Knowledge in Fabric Structure and Design

Learning Objectives

1. To identify and gain the knowledge about Basic woven designs
2. To learn about the different types of novelty weaves

Course Outcomes

On the successful completion of the course, students will be able to:		
1	understand and remember the basic woven design and its mechanism.	K1 &K2
2	apply the different weave structure of novelty weaves	K3
3	analyse the different types of figured fabrics.	K4
4	evaluate the mechanism in pile fabric production.	K5
5	create the different manufacturing process of double cloth.	K6

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

Units	Contents	No. of Hours
I	BASIC WOVEN AND ITS MECHANISM Introduction and Classification of Woven structures. Design-Point paper design, Methods of weave Representation and weave repeat, basic elements of a woven design, Peg plan and its types. Basic Weaves – Plain, Rib, Basket, Twill, Satin, Sateen	12
II	NOVELTY WEAVES Novelty weaves-Pile weave, Double cloth weave, Gauze weave, Swivel Weave, Lappet weave, Honey Comb - ordinary, brighten, Huck a Back, Crepe and Mock Leno. End uses of the above weaves.	12
III	FIGURED FABRICS Extra warp and extra weft figuring – single and two colors, Difference between extra warp and extra weft figuring- Pile Fabric- Classification of Pile Fabric – Weft File Fabric-Corded Velveteen, Warp Pile Fabric – Terry Pile	12
IV	DOUBLE CLOTH Double cloth-Classification of double cloths. -principles of double cloth production - Stitching from Face to back, Back to Face and Combination. - Method of construction of simple - self stitched double cloths, centre stitched double cloths -wadded double cloths -applications of double cloths.	12
V	KNITTING Single Jersey Structure, Rib Structure, Interlock Structure – and its derivatives, Flat Knitting, Warp Knitting Rashel and Tricot	12
Total		60

Self-study	Jacquard Weave, Dobby Weave, Advantage and disadvantage of Double cloth
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Textbooks

1. M.G. Mahadevan, 2005, *Textiles Spinning, Weaving and Designing*, First Edition, Abhishek Publications Chandigarh.
2. W.S. Murphy, 2005, *Textile Weaving and Design*, First Indian Edition, Abhishek Publications, Chandigarh.

Reference Books

1. N.Gokarneshan, 2006, *Fabric Structure and Design*, New Age International (P) Ltd, Publishers, New Delhi.
2. Grosichkli Z Newness, 2004. *Watson's textile design and colour*. London: Butter Worths.
3. W.S. Murphy, 2003. *Textile Weaving and Design*. Abhishek Publications.
4. K. Green Wood, 2004. *Weaving control of Fabric Structure*. Woodhead Publications.
5. MeenakshiRastogi, 2009. *Textile Forming*. Sonali Publications.

Web Resources

1. http://content.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/3/ET/8_ENG-3-ET-V1-S1 lesson.pdf.
2. http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/14/ET/8_ENG-14-ET-V1-S1 lesson.pdf
3. http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/15/ET/8_ENG-15-ET-V1-S1 lesson.pdf
4. https://web.itu.edu.tr/~berkalpo/Weaving_Lecture/Weaving_Chapter1a_06S.pdf
5. https://www2.cs.arizona.edu/patterns/weaving/books/pea_fa_1.pdf

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	3	3	2	2	2	2
CO2	2	1	3	2	2	2	2	2	1	3	2
CO3	2	2	3	2	2	1	3	2	2	3	2
CO4	3	2	2	2	2	2	2	3	2	2	2
CO5	3	3	3	2	2	2	2	3	3	3	2
TOTAL	12	10	13	10	10	10	12	12	10	13	10
AVERAGE	2.4	2	2.6	2	2	2	2.4	2.4	2	2.6	2

3 – Strong, 2- Medium, 1- Low

SEMESTER IV**ELECTIVE LAB COURSE IV: FABRIC STRUCTURE AND DESIGN-LABORATORY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU234EP1	-	-	2	-	2	2	30	25	75	100

Pre-requisite

Basic Knowledge in Fabric Structure and Design

Learning Objectives

1. To gain the knowledge and design, draft and lift the basic woven designs
2. To learn, design and draft about the different types of novelty weaves

Course Outcomes

On the successful completion of the course, students will be able to:		
1	learn about different weave structure of novelty weaves.	K1
2	understand about the design, draft and lift basic weaves	K2
3	apply the different weaves of Knitted Fabrics	K3
4	analyse and evaluate different types of figured fabrics	K4 & K5
5	create the different weave structure of figured fabrics	K6

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

Units	Contents	No. of Hours
I	Analyse the Fabric Structures 1. Plain weave and its derivatives 2. Warp rib 3. Weft rib	6
II	1. Twill Weave 2. Satin and Sateen 3. Honey Comb Weave 4. Huck a Buck Weave	6
III	1. Pile Weave 2. Extra warp figuring 3. Extra weft figuring.	6
IV	1. Dobby 2. Jacquard	6
V	1. Single Jersey Fabric 2. Rib Fabric 3. Interlock Fabric 4. Purl Fabric 5. Warp Knitting Tricot & Raschel	6
Total		30

Self-study	Analyse the different types of weaves in Double Cloth
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Textbooks

1. M.G. Mahadevan, 2005, *Textiles Spinning, Weaving and Designing*, First Edition, Abhishek Publications Chandigarh.
2. W.S. Murphy, 2007, *Textile Weaving and Design*, First Indian Edition, Abhishek Publications, Chandigarh.

Reference Books

1. N.Gokarneshan, 2006, *Fabric Structure and Design*, New Age International (P) Ltd, Publishers, New Delhi.
2. Grosichkli Z Newness, 2004. *Watson's textile design and colour*. London: Butter Worths.
3. W.S. Murphy, 2003, *Textile Weaving and Design*. Abhishek Publications.
4. K. Green Wood, 2004. *Weaving control of Fabric Structure*. Woodhead Publications.
5. MeenakshiRastogi, 2009. *Textile Forming*. Sonali Publications.

Web Resources

1. http://content.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_infiiep_8/3/et/8_eng-3-et-v1-s1_lesson.pdf.
2. http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_infiiep_8/14/et/8_eng-14-et-v1-s1lesson.pdf
3. http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f23443ed_infiiep_8/15/et/8_eng-15-et-v1-s1lesson.pdf
4. https://web.itu.edu.tr/~berkalpo/weaving_lecture/weaving_chapter1a_06s.pdf
5. https://www2.cs.arizona.edu/patterns/weaving/books/pea_fa_1.pdf

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	3	3	2	2	2	2
CO2	2	1	3	2	2	2	2	2	1	3	2
CO3	2	2	3	2	2	1	3	2	2	3	2
CO4	3	2	2	2	2	2	2	3	2	2	2
CO5	3	3	3	2	2	2	2	3	3	3	2
TOTAL	12	10	13	10	10	10	12	12	10	13	10
AVERAGE	2.4	2	2.6	2	2	2	2.4	2.4	2	2.6	2

3 – Strong, 2- Medium, 1- Low

SEMESTER III / IV
SKILL ENHANCEMENT COURSE SEC IV: DIGITAL FLUENCY

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG23CSE2	2	-	-	-	2	2	30	50	50	100

Pre-requisite: Basic computer knowledge

Learning Objectives:

1. To provide a comprehensive suite of productivity tools that enhance efficiency
2. To build essential soft skills that are needed for professional success.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	work with text, themes and styles	K1
2	produce a mail merge	K2
3	secure information in an Excel workbook	K2
4	perform documentation and presentation skills	K2, K3
5	add special effects to slide transitions	K3

K1 - Remember; **K2** - Understand; **K3** – Apply

Units	Contents	No. of Hours
I	Microsoft Word 2010: Starting Word 2010 - Understanding the Word Program Screen - Giving Commands in Word - Using Command Shortcuts – Document: Creating - Opening - Previewing - Printing and Saving. Getting Started with Documents: Entering and Deleting Text - Navigating through a Document - Viewing a Document. Working with and Editing Text: Spell Check and Grammar Check-Finding and Replacing Text - Inserting Symbols and Special Characters – Copying, Moving, and Pasting Text.	6
II	Formatting Characters and Paragraphs: Changing Font Type, Font Size, Font Color, Font Styles and Effects, Text Case, Creating Lists, Paragraph Alignment, Paragraph Borders and Shadings, Spacing between Paragraphs and Lines. Formatting the Page: Adjusting Margins, Page Orientation and Size, Columns and Ordering, Headers and Footers, Page Numbering. Working with Shapes, Pictures and SmartArt: Inserting Clip Art, Pictures and Graphics File, Resize Graphics, Removing Picture's Background, Text Boxes, Smart Art, Applying Special Effects. Working with Tables: Create Table, Add and delete Row or Column, Apply Table Style - Working with Mailings.	6
III	Microsoft Excel 2010: Creating Workbooks and Entering Data: Creating and Saving a New Workbook - Navigating the Excel Interface, Worksheets, and Workbooks - Entering Data in Worksheets - Inserting, Deleting, and Rearranging Worksheets. Formatting Worksheets: Inserting and Deleting Rows, Columns and Cells - Formatting Cells and Ranges - Printing your Excel Worksheets and Workbooks. Crunching Numbers with Formulas and Functions: Difference between Formulae and Functions - Applying Functions. Creating Powerful and Persuasive Charts: Creating, Laying Out, and Formatting a Chart.	6
IV	Microsoft PowerPoint 2010: Creating a Presentation - Changing the Slide Size and	6

	Orientation - Navigating the PowerPoint Window - Add content to a Slide - Adding, Deleting, and Rearranging Slides - Using views to work on Presentation. Creating Clear and Compelling Slides: Planning the Slides in Presentation - Choosing Slide Layouts to Suit the Contents - Adding Tables, SmartArt, Charts, Pictures, Movies, Sounds, Transitions and Animations - Slideshow.	
V	Digital Platforms: Graphic Design Platform: Canva - Logo Making, Invitation Designing. E-learning Platform: Virtual Meet – Technical Requirements, Scheduling Meetings, Sharing Presentations, Recording the Meetings. Online Forms: Creating Questionnaire, Publishing Questionnaire, Analyzing the Responses, Downloading the Response to Spreadsheet.	6
	Total	30

Self-study	Parts of a computer and their functions
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Textbook:

Anto Hepzie Bai J. & Divya Merry Malar J.,2024, Digital Fluency, Nanjil Publications, Nagercoil.

Reference Books:

1. Steve Schwartz, 2017, *Microsoft Office 2010 for Windows*, Peachpit Press.
2. Ramesh Bangia, 2015, *Learning Microsoft Office 2010*, Khanna Book Publishing Company.
3. Bittu Kumar, 2018, *Mastering MS Office*, V & S Publishers.
4. James Bernstein, 2020, *Google Meet Made Easy*, e-book, Amazon.
5. Zeldman, Jeffrey, 2005, *Web Standards Design Guide*, Charles River Media.

Web Resources:

1. <https://www.youtube.com/watch?v=oocieLn6umo>
2. https://www.youtube.com/watch?v=pPSwbK4_GdY
3. <https://www.youtube.com/watch?v=DKAiSDhU4To>
4. <https://www.youtube.com/watch?v=sbeyPahs-ng>
5. <https://www.youtube.com/watch?v=fACEzzmXelY>

SEMESTER IV
ENVIRONMENTAL STUDIES

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG234EV1	2	-	-	-	2	2	30	25	75	100

Pre-requisite: Interest to learn about nature and surrounding.

Learning Objectives

- 1.To know the different types of pollutions, causes and effects
- 2.To understand the importance of ecosystem, resources and waste management

Course Outcomes

On the successful completion of the course, students will be able to:		
1.	know the different kinds of resources, pollution and ecosystems	K1
2.	understand the biodiversity and its constituents	K2
3.	use the methods to control pollution and, to conserve the resources and ecosystem	K3
4.	analyse the factors behind pollution, global warming and health effects for sustainable development	K4
5.	evaluate various water, disaster and waste management systems	K5

K1 - Remember; **K2** - Understand; **K3** – Apply; **K4** - Analyse; **K5** - Evaluate

Units	Contents	No. of Hours
I	Nature of Environmental Studies Multidisciplinary nature of environmental studies- scope of environmental studies - environmental ethics-importance- types- natural resources - renewable and non-renewable resources – forest, land, water and energy resources.	6
II	Biodiversity and its Conservation Definition: genetic, species of biodiversity - biodiversity hot-spots in India - endangered and endemic species of India – Red Data Book - In-situ and Ex-situ conservation of biodiversity. Ecosystem- types - structure and function - food chain - food web- ecological pyramids- forest and pond ecosystems.	6
III	Environmental Pollution Pollution - causes, types and control measures of air, water, soil and noise pollution. Role of an individual in prevention of pollution. Solid waste management: Causes, effects and control measures of urban and industrial wastes. Disaster management– cyclone, flood, drought and earthquake.	6
IV	Environmental Management and Sustainable Development From unsustainable to sustainable development -Environmental Law and Policy – Objectives; The Water and Air Acts-The Environment Protection Act - Environmental Auditing-Environmental Impact Assessment-Life Cycle Assessment- Human Health Risk Assessment, Water conservation, rain water harvesting, watershed management.	6
V	Social Issues and the Environment Population explosion-impact of population growth on environment and social environment. Women and Child Welfare, Role of information technology in environment and human health. Consumerism and waste products. Climate change - global warming, acid rain and ozone layer depletion.	6

	Field work: Address environmental concerns in the campus (or) Document environmental assets- river / forest / grassland / hill / mountain in the locality (or) Study a local polluted site-urban / rural / industrial / agricultural area.	
	Total	30

Self-study	Pollutants, Ecosystems and Resources
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Textbook

Punitha A and Gladis Latha R, 2024. Fundamentals of Environmental Science.

Reference Books

1. Agarwal, K.C., 2001. *Environmental Biology*, Nidi Publishers. Ltd. Bikaner.
2. Brunner R.C., 1989, *Hazardous Waste Incineration*, McGraw Hill Ltd.
3. Gorhani, E & Hepworth, M.T. 2001. *Environmental Encyclopedia*, Jaico Publ. House, Mumbai.
4. De A.K.,2018. *Environmental Chemistry*, Wiley Eastern Ltd.
5. Gleick, H.P. 1993. *Water in crisis*, Pacific Institute for Studies Oxford Univ. Press.

Web Resources

1. <https://www.sciencenews.org/topic/environment>
2. <https://news.mongabay.com/2024/05/>
3. https://www.sciencedaily.com/news/earth_climate/environmental_issues/
4. <https://wildlife.org/rising-oryx-numbers-may-distress-new-mexico-ecosystem/>
5. <https://phys.org/news/2024-02-global-wild-megafauna-ecosystem-properties.html>

SEMESTER III & IV
LIFE SKILL TRAINING II: CATECHISM

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG234LC1	1	-	-	-	1	1	15	50	50	100

Learning Objectives:

- To develop human values through value education
- To understand the importance of personal development to lead a moral life

Course Outcomes

On the successful completion of the course, students will be able to:		
1	know and understand the aim and importance of value education	K1,K2
2	get rid of inferiority complex and act confidently in the society	K3
3	live lovingly by facing loneliness and make decisions on their own	K3
4	develop human dignity and able to stand bravely in adversity	K6
5	learn unity in diversity and grow in a life of grace	K6

K1 - Remember K2-Understand; K3-Apply; K6- Create

Units	Contents	No. of Hours
I	Face Loneliness: Loneliness – Causes for Loneliness – Loneliness in Jesus Christ Life – Ways to Overcome Loneliness – Need and Importance Bible Reference: Matthew: 6:5-6	3
II	Inferiority Complex: Inferiority Complex - Types – Ways to Get Rid of Inferiority Complex – Words of Eric Menthol – Balanced Emotion – Jesus and his Disciples. Bible Reference: Luke 8:43-48	3
III	Decision Making: Importance of Decision Making – Different Steps – Search – Think – Pray – Decide- Jesus and his Decisions Bible Reference: Mathew 7:7-8 Independent: Freedom from Control – Different Types of Freedom - Jesus the Liberator Bible Reference: Mark 10:46-52	3
IV	Human Dignity: Basic Needs – Factors that Degrade Human Dignity – How to Develop Human Dignity. Bible Reference: Luke 6:20-26 Stand Bravely in Adversity: Views of Abraham Maslow – Jesus and his Adversity. Bible Reference: Luke 22:43	3
V	Unity in Diversity: Need for Unity – The Second Vatican Council on the Mission of Christian Unity. Bible Reference: I Corinthians 1:10 To Grow in a Life of Grace: Graceful Life – View of Holy Bible – Moses – Amos – Paul – Graceful Life of Jesus Bible Reference: Amos 5:4	3
TOTAL		15

Textbooks

Valvukku Valikattuvom, Christian Life Committee, Kottar Diocese
The Holy Bible

SEMESTER III & IV
LIFE SKILL TRAINING II: MORAL

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG234LM1	1	-	-	-	1	1	15	50	50	100

Learning Objectives:

1. To cultivate human values through value education
2. To comprehend the importance of humane and morals to lead ethical and moral life.

Course Outcome

On the successful completion of the course, students will be able to:		
1	know the significance of life	K1
2	understand the importance of self-care	K2
3	realise the duty of youngsters in the society and live up to it	K3
4	analyse how to achieve success in profession	K4
5	develop mystical values by inculcating good thoughts	K5

K1 - Remember; K2 - Understand; K3 – Apply; K4 - Analyse; K5 – Evaluate

Unit	Contents	No. of Hours
I	Edu Care: Introduction- -Personal Care-Temple of Mind-Emotional stability- Inner views- Internal and external Beauty- Life is a Celebration	3
II	Self-care: Self- discipline- Selfishness in doing good things- Adolescence stage- What am I? - Self-esteem- Self-Confidence- Respect for womanhood	3
III	Profession based Values: Time Management-Continuous effort- What next? –Present moment is yours, Hard work and Smart Work-Broad view- destruct your failures	3
IV	Mystical Values: Thoughts- Positive and negative thoughts- Origin of negative thoughts-Moralisation of needs- Elimination of obstacles	3
V	Society and you: Knowing Humanity-Thankfulness- love and happiness- Honesty- Heroism -Youth is gift of God-Youngsters in politics and social media utilization.	3
TOTAL		15

Textbook

“Munaetrathin Mugavari”, G. Chandran, Vaigarai Publisher.

SEMESTER IV/VI
SELF LEARNING COURSE SLC II: ARTS AND AESTHETICS IN FASHION

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU234SL1/ DU236SL1	-	-	-	-	1	-	-	25	75	100

Pre-requisite

Basic knowledge towards Arts and Aesthetics of Art Forms

Learning Objectives

1. To examine the art form for eastern and western culture
2. To identify the different types of aesthetics

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify the different art forms in fashion	K1
2	understand the art forms of different cultures in fashion	K2
3	create the Indian aesthetics forms in fashion	K3
4	analyze the types of aesthetics in fashion	K4
5	evaluate and create the digital art forms in fashion	K5 & K6

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

Units	Contents
I	INTRODUCTION TO ART IN FASHION Introduction to Art in fashion -Art, artist and society in fashion, Functions of Arts in fashion –, History of Art, History of Aesthetic in fashion, Eastern and Western thoughts in fashion.
II	TYPES OF AESTHETICS IN FASHION Types of Aesthetics in fashion- Types of aesthetics in fashion, Western aesthetic categories – Beauty, Tragic, Comic, Sublime in fashion etc. Western thoughts and Eastern Thoughts of Art in fashion
III	INDIAN AESTHETICS IN FASHION Indian Aesthetics in fashion: Indian aesthetics – beauty and rasa in fashion; Dhvani theory in fashion, Tamil aesthetics. Agam/ Puram and Thinai in fashion.
IV	MODERN ART IN FASHION Modern Art in fashion- Major modern art movements and concepts in fashion. The feeling and the form of fashion, the art experience in fashion, Concept of Modern Art in fashion, History of Modern Art in fashion.
V	ART IN DIGITAL AGE IN FASHION Art in Digital Age in fashion- Social responsibility of the artist in fashion - Contemporary aesthetics in fashion – Art in the digital era in fashion

Textbooks

1. Parul Dave-Mukherji, 2015, *Arts and Aesthetics in a Globalizing World (ASA Monographs) Paperback – Illustrated*, by Raminder Kaur.
2. George Santayana, 1896. *The Sense of Beauty: Being the Outlines of Aesthetic Theory*. C. Scribner's Sons. pp. v–ix.

Reference Books

1. Wabi-Sabi, 2008, *Artists, Designers, Poets & Philosophers: For Artists, Designers, Poets and Designers Paperback* – Illustrated.
2. M.G. Mahadevan, 2005, *Textiles Spinning, Weaving and Designing*, First Edition, Abhishek Publications Chandigarh.
3. W.S. Murphy, 2007, *Textile Weaving and Design*, First Indian Edition, Abhishek Publications, Chandigarh.
4. Banister E, Hogg M, 2004, *Negative symbolic consumption and consumers' drive for self-esteem: the case of the fashion industry*. European Journal of Marketing.
5. Behling D, Williams EA, 2004: *Influence of dress on perception of intelligence and expectations of scholastic achievement*. Clothing and Textiles Research Journal.

Web Resources

1. <https://tide.com/en-us/how-to-wash-clothes/how-to-do-laundry/your-comprehensiveguide-on-how-to-do-laundry#Step1>
2. <https://www.rinse.com/blog/care/what-is-dry-cleaning/>
3. https://fleming.ca.uky.edu/files/clothing_storage.pdf
4. <https://www.home-storage-solutions-101.com/clothes-storage.html>
5. <https://ncert.nic.in/vocational/pdf/ivsm103.pdf>

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	3	3	2	2	2	2
CO2	2	1	3	2	2	2	2	2	1	3	2
CO3	2	2	3	2	2	1	3	2	2	3	2
CO4	3	2	2	2	2	2	2	3	1	2	2
CO5	3	3	3	2	2	2	2	3	3	3	2
TOTAL	12	10	13	10	10	10	12	12	10	13	10
AVERAGE	2.4	2	2.6	2	2	2	2.4	2.4	2	2.6	2

3 – Strong, 2- Medium, 1- Low