

**Holy Cross College (Autonomous), Nagercoil**  
**Kanyakumari District, Tamil Nadu.**  
**Accredited with A<sup>++</sup> by NAAC - V Cycle (CGPA 3.53)**

Affiliated to  
**Manonmaniam Sundaranar University, Tirunelveli**



**Semester I - VI**

**Guidelines & Syllabus**

**DEPARTMENT OF COSTUME DESIGN AND FASHION**



**2023-2026**  
**(With effect from the academic year 2025-2026)**

**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

<b>PEO2</b>	use practical knowledge for developing professional empowerment and entrepreneurship and societal services.	<b>M2, M3, M4 &amp; M5</b>
<b>PEO3</b>	pursue lifelong learning and continuous improvement of the knowledge and skills with the highest professional and ethical standards.	<b>M3, M4, M5 &amp; M6</b>

**Programme Outcomes (POs)**

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

**Programme Specific Outcomes (PSOs)**

<b>PSOs</b>	<b>Upon completion of B.SC Costume Design and Fashion the graduates will be able to:</b>	<b>Mapping with POs</b>
<b>PSO1</b>	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	<b>PO1 &amp; PO3</b>
<b>PSO2</b>	apply the specialized skills to manage with the available indigenous materials for sustainability in textiles.	<b>PO1 &amp; PO2</b>
<b>PSO3</b>	develop portfolio presentations from fibre to fashionable garments and exhibit the same through fashion shows to excel as fashion designers and globally competitive entrepreneurs	<b>PO2 &amp; PO7</b>
<b>PSO4</b>	recognize and analyze every single person's personality that suits their clothing.	<b>PO4, PO5 &amp; PO6</b>

**Mapping of POs and PSOs**

<b>POs</b>	<b>PSO1</b>	<b>PSO 2</b>	<b>PSO3</b>	<b>PSO4</b>
<b>PO1</b>	S	S	S	S
<b>PO2</b>	M	S	M	M
<b>PO3</b>	S	S	S	S
<b>PO4</b>	S	S	S	S

<b>PO5</b>	S	S	S	S
<b>PO6</b>	S	S	S	S
<b>PO7</b>	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)**

<b>Core Courses</b>	Core-Theory s	8x100	
	Core Research Project	1x100	900
	Core Lab Course	6 x 100	600
	Discipline Specific Elective	4 x 100	400
<b>Elective Courses</b>	Theory	4 x100	
	Lab Course	4x100	800
	<b>Total Marks</b>		<b>2700</b>

**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
<b>Part I –Language</b>	6 (3)	6 (3)	6 (3)	6 (3)	-	-	<b>24</b>	<b>12</b>
<b>Part II-English</b>	6 (3)	6 (3)	6 (3)	6 (3)	-	-	<b>24</b>	<b>12</b>
<b>Part-III</b>								
Core Course	5 (5)	5 (5)	5 (5)	5 (5)	5 (4)+ 5 (4)+ 5 (4)	6(5) + 6(5) + 6(4)	<b>70</b>	<b>62</b>
Core Lab Course	3 (3)	3 (3)	3 (3)	3 (3)				
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)	<b>42</b>	<b>32</b>
<b>Part IV</b>								
Non-major Elective	2 (2)	2 (2)					<b>4</b>	<b>4</b>
Skill Enhancement Course		2 (2)	2(2) + 2 (2)	2 (2)			<b>8</b>	<b>8</b>
Foundation Course	2 (2)						<b>2</b>	<b>2</b>
Environmental Studies				2 (2)			<b>2</b>	<b>2</b>
Internship					(2)		<b>-</b>	<b>2</b>

Professional Competency Skill					2 (2)	2 (2)	4	4
<b>Total</b>	<b>30 (23)</b>	<b>30 (23)</b>	<b>30 (23)</b>	<b>30 (23)</b>	<b>30 (26)</b>	<b>30 (22)</b>	<b>180</b>	<b>140</b>

**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	(2)						2
Student Training Activity: Clubs & Committees / NSS				(1)			1
Community Engagement Activity: RUN				(1)			1
Human Rights, Justice and Ethics					(1)		1
Gender Equity and Inclusivity						(1)	1
<b>Total</b>							<b>14</b>

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
<b>Part I</b>	TU231TL1 FU231FL1	Language: Tamil French	3	6
<b>Part II</b>	EU241EL1	English: A Stream	3	6
	EU241EL2	English: B Stream		
	EU241EL3	English: C Stream		
<b>Part III</b>	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 Fashion Illustration	2	2
<b>Part IV</b>	DU231NM1	Non-Major Elective (NME): Fashion Concept and Design	2	2
	DU241FC1	Foundation Course: Fashion Designing Concepts	2	2
	<b>Total</b>		<b>23</b>	<b>30</b>

**SEMESTER II**

Course	Course Code	Title of the Course	Credits	Hours/Week
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<b>Part I</b>	TU232TL1 FU232FL1	Language: Tamil French	3	6
<b>Part II</b>	EU242EL1	English: A Stream	3	6
	EU242EL2	English: B Stream		
	EU242EL3	English: C Stream		
<b>Part III</b>	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
<b>Part IV</b>	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
	<b>Total</b>		<b>23</b>	<b>30</b>

**SEMESTER III**

Course	Course Code	Title of the Course	Credits	Hours / Week
<b>Part I</b>	TU233TL1 FU233FL1	Language: Tamil French	3	6
<b>Part II</b>	EU243EL1	English: A Stream	3	6
	EU243EL2	English: B Stream		
	EU243EL3	English: C Stream		
<b>Part III</b>	DU243CC1	Core Course III: Technology Of Apparel Manufacturing	5	5
	DU233CP1	Core Lab Course III: Construction of Women's wear	3	3
	DU243EC1	Elective Course III: Fabric structure and design	3	4
	DU243EP1	Elective Lab Course III: Fabric structure and design-laboratory	2	2
<b>Part IV</b>	DU233SE1	Skill Enhancement Course SEC-II: Indian Textiles and Costumes	2	2
	UG23CSE1	Skill Enhancement Course SEC-III: Fitness for Wellbeing	2	2
	<b>Total</b>		<b>23</b>	<b>30</b>

**SEMESTER IV**

Course	Course Code	Title of the Course	Credits	Hours / Week
<b>Part I</b>	TU234TL1 FU234FL1	Language: Tamil French	3	6
<b>Part II</b>	EU244EL1	English: A Stream	3	6
	EU244EL2	English: B Stream		
	EU244EL3	English: C Stream		

<b>Part III</b>	DU244CC1	Core Course IV: Dynamics Of Fashion	5	5
	DU244CP1	Core Lab Course IV: Construction of Men's Wear	3	3
	DU244EC1	Elective Course IV: Textile Testing and Quality Control	3	4
	DU244EP1	Elective Lab Course IV: Textile Testing and Quality Control Laboratory	2	2
<b>Part IV</b>	UG23CSE2	Skill Enhancement Course SEC-V: Digital Fluency	2	2
	UG234EV1	Environmental Studies (EVS)	2	2
	<b>Total</b>		<b>23</b>	<b>30</b>

**SEMESTER V**

Course	Course Code	Title of the Course	Credits	Hours/Week
<b>Part III</b>	DU235CC1	Core Course V: Organization of Garment Unit	4	5
	DU235CC2	Core Course VI: Apparel Export and Trade Documentation	4	5
	DU235CP1	Core Lab Course V: Construction of Men's Wear	4	5
	DU235RP1	Core Research Project	4	5
	DU235DE1	Discipline Specific Elective I: a) Technical Textile	3	4
	DU235DE2	Discipline Specific Elective I: b) Textile Finishing		
	DU235DE3	Discipline Specific Elective I: c) Printing Technology		
	DU235DE4	Discipline Specific Elective II: a) Fashion Clothing and Psychology	3	4
	DU235DE5	Discipline Specific Elective II: b) Visual Merchandising		
	DU235DE6	Discipline Specific Elective II: c) Fashion and Apparel Marketing		
<b>Part IV</b>	UG235PS1	Professional Competency Skill I: Career Skills	2	2
	DU235IS1	Internship	2	-
	<b>Total</b>		<b>26</b>	<b>30</b>

**Semester VI**

Course	Course Code	Title of the Course	Credits	Hours/Week
<b>Part III</b>	DU236CC1	Core Course VII: Knitting Technology	5	6
	DU236CC2	Core Course VIII: Computer Application in Fashion Industry	5	6
	DU236CP1	Core Lab Course VI Fashion Portfolio	4	6
	DU236DE1	<b>Discipline Specific Elective III:</b> a) Home Textiles and Furnishing	3	5
	DU236DE2	Discipline Specific Elective III:		

		b) Apparel Costing		
	DU236DE3	Discipline Specific Elective III: c) Garment Quality and Cost Control		
	DU236DE4	Discipline Specific Elective IV: a) Boutique Management	3	5
	DU236DE5	Discipline Specific Elective IV: b) Entrepreneurial Development		
	DU236DE6	Discipline Specific Elective IV: c) Non-Woven Textiles		
	DU236PS1	Professional Competency Skill II: Business Start Up	2	2
		<b>Total</b>	<b>22</b>	<b>30</b>
<b>TOTAL</b>			<b>140</b>	<b>180</b>

**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
	VI	UG236OC1 & UG236OC2	MOOC	2
	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, Justice and Ethics	1
	VI	UG236GE1	Gender Equity and Inclusivity	1
			<b>Total</b>	<b>14</b>

**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
<b>Total</b>	<b>25</b>

**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
<b>Total</b>	<b>40</b>	<b>Total</b>	<b>100</b>

**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
<b>Total</b>	<b>25</b>

**Question pattern**

External Exam	Marks
Major Practical	75
Minor Practical / Spotters /Record	
<b>Total</b>	<b>75</b>

**iii. Core Research Project**

Ratio of Internal and External = 25:75

Components	Marks
<b>Internal</b>	25
<b>External</b>	
Core Research Project Report	40
Viva voce	35
<b>Total</b>	<b>100</b>

**Part - IV****i. Non-major Elective, Skill Enhancement Course I & II, Foundation Course and 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
<b>Total</b>	<b>25</b>

**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 <b>Three</b> out of <b>Five</b> )	12	Part B 5 x 4 (Open choice any <b>Five</b> out of <b>Eight</b> )	20
Part C 1 x 9 (Open choice <b>One</b> out of <b>Three</b> )	9	Part C 5 x 9 (Open choice any <b>Five</b> out of <b>Eight</b> )	45
<b>Total</b>	<b>25</b>	<b>Total</b>	<b>75</b>

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

Components	Marks
<b>Internal</b>	
Quiz (15 x 1)	15
Lab Assessment (5 x 2)	10
<b>Total</b>	<b>25</b>
<b>External</b>	
Practical (2 x 25)	50
Procedure	25
<b>Total</b>	<b>75</b>

**Fitness and Wellbeing**

Components	Marks
<b>Internal</b>	
Quiz (15 x 1)	15
Exercise (2 x 5)	10
<b>Total</b>	<b>25</b>
<b>External</b>	
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

<b>Total</b>	<b>75</b>
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**iii. Environmental Studies**

<b>Internal Components</b>	<b>Marks</b>
Project Report	15
Viva voce	10
<b>Total</b>	<b>25</b>

<b>External Exam</b>	<b>Marks</b>
Part A 5 x 2 (No Choice)	10
Part B 5 x 4 (Open choice any <b>Five</b> out of <b>Eight</b> )	20
Part C 5 x 9 (Open choice any <b>Five</b> out of <b>Eight</b> )	45
<b>Total</b>	<b>75</b>

**iv. Internship**

<b>Components</b>	<b>Marks</b>
Industry Contribution	50
Report & Viva-voce	50
<b>Total</b>	<b>100</b>

**v. Professional Competency Skill**

<b>Internal Components</b>	<b>Marks</b>
Test – 20 marks	5
Individual Activity	10
Group Activity	10
<b>Total</b>	<b>25</b>
<b>External Exam</b>	<b>Marks</b>
Part A 5 x 2 (No Choice)	10
Part B 5 x 4 (Open choice any <b>Five</b> out of <b>Eight</b> )	20
Part C 5 x 9 (Open choice any <b>Five</b> out of <b>Eight</b> )	45
<b>Total</b>	<b>75</b>

**Co-Curricular Courses:****i. Life Skill Training: Catechism & Moral****Human Rights, Justice and Ethics****Gender Equity and Inclusivity****Internal Components**

<b>Component</b>	<b>Marks</b>
Project - Album on current issues	25
Group Activity	25
<b>Total</b>	<b>50</b>

**External Components**

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

**ii. Skill Development Training - Certificate Course:**

<b>Components</b>	<b>Marks</b>
Attendance & Participation	50
Skill Test	50

<b>Total</b>	<b>100</b>
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**iii. Field Project:**

<b>Components</b>	<b>Marks</b>
Field Work	50
Field Project Report & Viva-voce	50
<b>Total</b>	<b>100</b>

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

<b>Components</b>	<b>Marks</b>
Internal	25
External	75
<b>Total</b>	<b>100</b>

**v. Student Training Activity: Clubs and Committees**

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

<b>Component</b>	<b>Marks</b>
Attendance	25
Participation	75
<b>Total</b>	<b>100</b>

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

<b>Components</b>	<b>Marks</b>
Attendance & Participation	50
Field Project	50
<b>Total</b>	<b>100</b>

**vii. Self Learning Course**Ratio of Internal and External = **25: 75**

<b>Internal Test</b>	<b>Marks</b>	<b>External Exam</b>	<b>Marks</b>
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 10x 4 (No Choice)	40
<b>Total</b>	<b>25</b>	<b>Total</b>	<b>75</b>

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

<b>S. No.</b>	<b>Level</b>	<b>Parameter</b>	<b>Description</b>
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

- The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade points.
- 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.
- There shall be examinations at the end of each semester, for odd semesters in October/November; for even semesters in April/ May.
- 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.
- Viva-voce: Each project group shall be required to appear for Viva -voce examination in defence of the project.
- 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)  $\Sigma_n \Sigma_i C_{ni} G_{ni} / \Sigma_n \Sigma_i C_{ni}$

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

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**

<b>CGPA</b>	<b>Grade</b>	<b>Classification of Final Result</b>
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++	First Class with Distinction*
8.0 and above but below 8.5	D+	
7.5 and above but below 8.0	D	
7.0 and above but below 7.5	A++	First Class
6.5 and above but below 7.0	A+	
6.0 and above but below 6.5	A	
5.5 and above but below 6.0	B+	Second Class
5.0 and above but below 5.5	B	
4.0 and above but below 5.0	C	Third Class
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	<b>K1 &amp; K2</b>
2.	describe the weaving methods and its characteristic features	<b>K1</b>
3.	understand the yarn types and its manufacturing process	<b>K2</b>
4.	gain an understanding of knitting and non-wovens	<b>K2</b>
5.	discover the manufacturing process of man - made fiber	<b>K2 &amp; K3</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Fiber Classification, Natural Fibres</b> Introduction to Textiles Fibers - 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	<b>15</b>
<b>II</b>	<b>Regenerated and Synthetic Fibres</b> 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	<b>15</b>
<b>III</b>	<b>Yarn Manufacturing</b> 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.	<b>15</b>
<b>IV</b>	<b>Weaving Mechanism</b> 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 advantages - Types of shuttles less looms – Rapier – Projectile – Air jet – Water	<b>15</b>

	jet.	
<b>V</b>	<b>Knitting and Non-Woven Fabrics</b> 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.	<b>15</b>
<b>Total</b>		<b>75</b>

<b>Self-study</b>	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.india.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
<b>CO1</b>	3	2	2	3	2	2	3	3	2	2	2
<b>CO2</b>	3	2	2	3	2	2	3	3	2	2	2
<b>CO3</b>	3	3	3	3	3	3	3	3	3	3	3
<b>CO4</b>	3	2	2	3	2	2	3	3	2	2	3
<b>CO5</b>	3	2	2	3	2	2	3	3	2	2	3
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>13</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>2.6</b>

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
<b>DU241CP1</b>	-	-	<b>3</b>	-	<b>3</b>	<b>3</b>	<b>45</b>	<b>25</b>	<b>75</b>	<b>100</b>

**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.	<b>K1&amp;K2</b>
2.	design different types of sleeve patterns.	<b>K2</b>
3.	develop basic hand stitch and seams	<b>K3</b>
2.	apply and evaluate fullness in samples.	<b>K4 &amp;K5</b>
3.	create facing and binding sample	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Basic Stitches (Prepare samples for the following)</b> <b>Basic hand stitch</b> – Running stitch, hemming stitch, slip stitch, back stitch, overcasting stitch. <b>Seams</b> – 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, <b>Seam finishes</b> - Pinked finish, edge stitched finish, double stitch finish, overcast finish, herring bone finished seam, bound seam edge finish	<b>9</b>
<b>II</b>	<b>Fullness (Prepare samples for the following)</b> <b>Darts</b> - Single, Double, Pointed Darts, Pivot Darts <b>Tucks</b> - Pin Tucks, Cross Tucks, Piped Tucks, Shell Tucks. <b>Pleats</b> - Pleats; Knife Pleats, Box Pleats, Invertible Box Pleats, Kick Pleats. <b>Flare</b> – Godets – Gathers – Shirring – Single and Double Frills – Single and Double Ruffle	<b>9</b>
<b>III</b>	<b>Facing and Binding (Prepare samples for the following)</b> <b>Facing</b> – Bias Facing, Shaped Facing, Decorative Facing. <b>Binding</b> – Bias Binding, Single and Decorative Bias Binding.	<b>9</b>
<b>IV</b>	<b>Plackets and Fasteners (Prepare samples for the following)</b> <b>Plackets</b> – Bound Plackets, Continuous Bound Plackets, Discontinuous Plackets, Slot Seam Zipper Plackets and Tailored Plackets. <b>Fasteners</b> –Press Button, Hook and Eye, Loop Button, Button and Button Holes, Zipper	<b>9</b>
<b>V</b>	<b>Sleeves (Prepare miniatures for the following)</b> <b>Sleeves</b> - Types of Sleeves - Plain, Puffs – Gathered at Top and Bottom, Bell,	<b>9</b>

	Bishop, Circular, Leg-O-Mutton, Magyar Sleeves, Raglan, Dolmen and Kimono sleeves.	
<b>Total</b>		<b>45</b>

<b>Self-study</b>	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.india.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
<b>CO1</b>	3	2	3	3	2	2	3	2	2	2	2
<b>CO2</b>	3	2	3	3	3	3	3	3	3	2	2
<b>CO3</b>	3	2	3	3	3	3	3	3	3	2	2
<b>CO4</b>	3	2	2	3	2	2	3	2	2	2	2
<b>CO5</b>	3	2	2	3	2	2	3	2	2	2	2
<b>TOTAL</b>	<b>15</b>	<b>10</b>	<b>13</b>	<b>15</b>	<b>13</b>	<b>13</b>	<b>15</b>	<b>13</b>	<b>13</b>	<b>10</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>2</b>	<b>2.6</b>	<b>3</b>	<b>2.6</b>	<b>2.6</b>	<b>3</b>	<b>2.6</b>	<b>2.6</b>	<b>2</b>	<b>2</b>

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
<b>DU241EC1</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>4</b>	<b>60</b>	<b>25</b>	<b>75</b>	<b>100</b>

**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**

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<b>Sewing machineries</b> 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.	<b>12</b>
<b>II</b>	<b>Stitching mechanism</b> 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	<b>12</b>
<b>III</b>	<b>Spreading and marking</b> 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	<b>12</b>
<b>IV</b>	<b>Cutting technology</b> 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.	<b>12</b>
<b>V</b>	<b>Stitches and seams as per Federal standards</b> Definition and types of stitches and seams as per Federal standards - Application of	<b>12</b>

stitches and seams in clothing. Brief study on various industrial finishing machines - Pressing, fusing, stain removing, needle detecting machines	
<b>Total</b>	<b>60</b>

<b>Self-study</b>	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.india.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
<b>CO1</b>	3	2	2	3	2	3	3	2	2	2	2
<b>CO2</b>	3	2	2	3	2	3	3	2	2	2	2
<b>CO3</b>	3	2	3	3	3	3	3	2	3	3	2
<b>CO4</b>	3	2	2	3	2	3	3	2	2	3	2
<b>CO5</b>	3	2	2	3	2	3	3	3	2	2	2
<b>TOTAL</b>	<b>15</b>	<b>10</b>	<b>11</b>	<b>15</b>	<b>11</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>12</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>2</b>	<b>2.2</b>	<b>3</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>2.4</b>	<b>2</b>

3 – Strong, 2- Medium, 1- Low

## ELECTIVE LAB COURSE I: FUNDAMENTALS OF FASHION ILLUSTRATION

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU241EP1	-	-	2	-	2	2	30	25	75	100

## Knowledge in Fashion Sketching

- 1.To know about the basic concepts of Illustration techniques and formation of parts of the human body in different proportions and variations.
- 2.To practice about the formation of Human Croquis and accessories

On the successful completion of the course, students will be able to:		
1	understand the basic skill of fashion illustration.	<b>K1 &amp; K2</b>
2	apply the elements and principles of design in various apparels.	<b>K3</b>
3	analyze the use of elements and principles in designing of garments.	<b>K4</b>
4	evaluate the combination of elements of design.	<b>K5</b>
5	create garments design based on the elements and principles of design	<b>K6</b>
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> – Apply; <b>K4</b> - Analyse; <b>K5</b> - Evaluate; <b>K6</b> – Create		

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<b>Basic Figure Drawing</b> 4,6,8 Head Theory- (Male, Female and Kids) 10 and 12 Head Theory- (Male, Female and Kids) Stick Figure Block Figure Flesh Figure- Unusual Figures- 1. Broad Shoulders 2. Narrow Shoulders 3. Long Neck 4. Short Neck 5. Short Waist 6. Long Waist 7. Long Abdomen 8. Tall and Thin Figure 9. Short and Stout Figure 10. Broad Face, Small Face	<b>6</b>
<b>II</b>	<b>Prepare the following Charts</b> Prang Colour Chart Value Chart Intensity Chart	<b>6</b>
<b>III</b>	<b>Illustrate the garments with the application of various colour harmonies</b> Monochromatic colour harmony Analogous colour harmony	<b>6</b>

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

<b>Self-study</b>	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 techPress
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
<b>CO1</b>	2	3	2	3	2	3	3	2	3	2	2
<b>CO2</b>	2	2	3	2	2	2	2	2	2	3	1
<b>CO3</b>	2	3	3	3	2	1	3	2	3	3	2
<b>CO4</b>	3	2	2	2	3	2	2	3	2	2	2
<b>CO5</b>	3	2	3	2	3	2	2	3	2	3	2
<b>TOTAL</b>	<b>12</b>	<b>12</b>	<b>13</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>13</b>	<b>9</b>
<b>AVERAGE</b>	<b>2.4</b>	<b>2.4</b>	<b>2.6</b>	<b>2.4</b>	<b>2.4</b>	<b>2</b>	<b>2.4</b>	<b>2.4</b>	<b>2.4</b>	<b>2.6</b>	<b>1.8</b>

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.	<b>K1</b>
2	develop dress designs on principles of design.	<b>K2</b>
3	design various types of dresses using colors.	<b>K3</b>
4	apply the elements of design used in various dresses	<b>K3</b>
5	illustrate different types of fashion accessories.	<b>K3</b>

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

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

<b>Self-study</b>	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 inthe 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 OUT OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES**

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

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.	<b>K1</b>
2.	develop dress designs on principles of design.	<b>K2</b>
3.	design various types of dresses using colors.	<b>K3</b>
4.	apply the elements of design used in various dresses	<b>K3</b>
5.	illustrate different types of fashion accessories.	<b>K3</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Design</b> 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.	<b>6</b>
<b>II</b>	<b>Principles of design</b> Principles of design- Balance - formal and informal, rhythm- through repetition, radiation and gradation, emphasis, harmony and proportion and its application in dress.	<b>6</b>
<b>III</b>	<b>Colour</b> Colour- definition, colour theories - Prang colour chart, Dimensions of colour - Hue, Value and intensity, Munsell colour system and Standard colour harmonies	<b>6</b>
<b>IV</b>	<b>Designing Dresses for Unusual Figures</b> 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.	<b>6</b>
<b>V</b>	<b>Fashion Evolution</b> 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.	<b>6</b>
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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
<b>CO1</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO2</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO3</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO4</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO5</b>	2	2	3	2	2	2	2	2	2	2	2
<b>Total</b>	<b>14</b>	<b>10</b>	<b>15</b>	<b>14</b>	<b>10</b>	<b>10</b>	<b>14</b>	<b>14</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Average</b>	<b>2.8</b>	<b>2</b>	<b>3</b>	<b>2.8</b>	<b>2</b>	<b>2</b>	<b>2.8</b>	<b>2.8</b>	<b>2</b>	<b>2</b>	<b>2</b>

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	<b>K1 &amp; K2</b>
2.	study the classification of studs	<b>K2</b>
3.	study in detail about pendants and necklace	<b>K3</b>
4.	study in detail about bangles and classification	<b>K2</b>
5.	study in detail about Brooches	<b>K2</b>

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

Units	Contents	No. of Hours
<b>I</b>	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'	<b>6</b>
<b>II</b>	Earrings Classification of Studs & earrings, On the ear -Studs and buttons, Hanging style – Drops, dangles Hoop style- Huggies, Bali's etc., styles – Chandeliers, Shoulder dusters.	<b>6</b>
<b>III</b>	Pendants and Necklaces Introduction and historical perspective on Pendants, Classification of Pendants- Locketts, medallions, tassels, sliders etc,	<b>6</b>
<b>IV</b>	Bangles and Bracelets Introduction and historical perspective on Banglesand Bracelets, Classification- Bangles.	<b>6</b>
<b>V</b>	Brooches, tiepins and other product categories Introduction and historicalperspective, Brooches, cufflinks, tiepins.	<b>6</b>
<b>^</b>	<b>Total</b>	<b>30</b>

<b>Self-study</b>	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.indymandi.com.handmadejewellery](http://www.indymandi.com.handmadejewellery)
- 2.[www.jewelscrust.in](http://www.jewelscrust.in)
3. [www.jookart.in](http://www.jookart.in)

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

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

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	<b>K1</b>
2.	select different colors of embroidery threads used for embroidery.	<b>K2</b>
3.	create the different types of trimmings used in various dresses for kids, women's and men's wear	<b>K3</b>
4.	implementation and analyze the motifs using basic embroidery stitches	<b>K4</b>
5	create and evaluate various design used for making stitches	<b>K5 &amp; K6</b>

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

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

	4. Straight 5. Lettering 6. Alphabets and Monogram work	
<b>V</b>	<b>Create a Motif or a Design</b> 1. Faggoting 2. Fringes 3. Drawn Thread Work 4. Tossels 5. Applique work and Lace 6. Sequence Work	6
<b>Total</b>		<b>30</b>
<b>Self Study</b>	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](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
<b>CO1</b>	3	2	2	2	2	2	3	3	2	2	2
<b>CO2</b>	3	2	2	2	2	2	3	3	2	2	2
<b>CO3</b>	3	2	2	2	2	2	3	3	2	2	2
<b>CO4</b>	3	3	2	2	2	2	3	3	3	2	2
<b>CO5</b>	3	2	2	2	2	2	3	3	2	2	2
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>10</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2</b>	<b>2</b>

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	<b>K1</b>
2	understand equipment used for pedicure, basic pedicure technique	<b>K2</b>
3	beware of equipment and techniques used for Manicure	<b>K2</b>
4	apply the face makeup	<b>K3</b>
5	analyze and evaluate the skin and hair	<b>K4 &amp; K5</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Cosmetology – An Introduction</b> Cosmetology – Introduction, Definition, and its importance-difference between beautician and Cosmetologist -features of a cosmetologist – Types and application- Self- grooming–definition and its importance	<b>6</b>
<b>II</b>	<b>Pedicure</b> 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	<b>6</b>
<b>III</b>	<b>Manicure</b> 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.	<b>6</b>
<b>IV</b>	<b>Skin and hair</b> 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	<b>6</b>
<b>V</b>	<b>Face makeup</b> 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.	<b>6</b>
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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
<b>DU242CC1</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**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	<b>K1&amp;K2</b>
2	apply the Grading Techniques for different styles	<b>K3</b>
3	analyse the Pattern making Technology.	<b>K4</b>
4	evaluate and check the good fit of a garment.	<b>K5</b>
5	create the pattern with required style and measurement and grade them.	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>PATTERN MAKING METHODS</b> 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.	<b>15</b>
<b>II</b>	<b>COMMERCIAL PATTERN</b> 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.	<b>15</b>
<b>III</b>	<b>PATTERN LAYOUT</b> 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.	<b>15</b>
<b>IV</b>	<b>FITTING AND ALTERATION</b> Fitting-Definition-Principles for good fit. Causes for poor fit, checking the	<b>15</b>

	fit of a garment, solving fitting problems in various garments, basic principles. Fitting techniques. Pattern alteration–importance of altering patterns. Principles for pattern alteration.	
V	<b>PATTERN GRADING</b> 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
<b>Total</b>		<b>75</b>

<b>Self-study</b>	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/](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
<b>CO1</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO2</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO3</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO4</b>	3	3	3	3	3	3	3	3	3	3	2
<b>CO5</b>	3	2	3	3	3	3	3	3	3	3	2
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>15</b>	<b>15</b>	<b>12</b>	<b>12</b>	<b>15</b>	<b>15</b>	<b>12</b>	<b>12</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>2.4</b>	<b>2.4</b>	<b>3</b>	<b>3</b>	<b>2.4</b>	<b>2.4</b>	<b>2</b>

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.	<b>K1&amp; K2</b>
2	apply the layout and measurement methods to make kid's garments.	<b>K3</b>
3	analyze the various material suitable for constructing children's wear.	<b>K4</b>
4	evaluate the various design of children's wear.	<b>K5</b>
5	create new designs for kid's garments.	<b>K6</b>

**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
<b>I</b>	<b>Construction of</b> 1. Bib- Variation in outline shape 2. Panty- Plain or plastic lined panty	<b>9</b>
<b>II</b>	<b>Construction of</b> 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.	<b>9</b>
<b>III</b>	<b>Construction of</b> 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	<b>9</b>
<b>IV</b>	<b>Construction of</b> 1. Summer Frock –with strap 2. Knicker – elastic waist, side pockets	<b>9</b>
<b>V</b>	<b>Construction of</b>	<b>9</b>

	1. Shirt- open collar, with pocket 2. Pinafore- two strap, belt.	
<b>Total</b>		<b>45</b>

<b>Self Study</b>	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](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
<b>CO1</b>	3	2	2	3	2	2	3	3	2	2	2
<b>CO2</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO3</b>	3	2	3	3	2	2	3	3	2	2	2
<b>CO4</b>	3	2	3	3	3	3	3	3	3	3	2
<b>CO5</b>	3	2	3	3	3	3	3	3	3	3	2
<b>TOTAL</b>	<b>15</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>12</b>	<b>12</b>	<b>15</b>	<b>15</b>	<b>12</b>	<b>12</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2.4</b>	<b>2.4</b>	<b>3</b>	<b>3</b>	<b>2.4</b>	<b>2.4</b>	<b>2</b>

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	<b>K1</b>
2	explain the various process in textile industry.	<b>K2</b>
3	apply the dyeing, printing and finishing techniques in textile industry.	<b>K3</b>
4	analyze the materials and equipment used in textile processing.	<b>K4</b>
5	evaluate and create the various textile wet processing involves in textile industry.	<b>K5&amp;K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>PREPARATORY PROCESSES</b> 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.	<b>12</b>
<b>II</b>	<b>DYEING</b> 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.	<b>12</b>
<b>III</b>	<b>PRINTING &amp; ITS METHODS</b> 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.	<b>12</b>
<b>IV</b>	<b>AESTHETIC OF FINISHING</b> Introduction to finishing – Definition, Importance, Classification. Mechanical Finishing – Sanforising – calendaring – Brushing – Decating – Milling. Chemical finishing – wash and wear finishing, durable finish, Stiff Finish,	<b>12</b>

	Denim Finish, Application of silicones in finishing processes	
<b>V</b>	<b>FUNCTIONAL FINISHING</b> Functional finishes –water proof finishes, water repellent finish, flame retardant finish, soil release finish, antimicrobial finish. Nano Technology in Textile finishing.	<b>12</b>
<b>Total</b>		<b>60</b>

<b>Self-study</b>	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. 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-becertified/wetprocessing#:~: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
<b>CO1</b>	3	2	3	3	2	3	3	3	2	3	3
<b>CO2</b>	3	2	3	3	2	3	3	3	2	3	3
<b>CO3</b>	3	3	2	3	2	3	3	3	3	2	3
<b>CO4</b>	3	2	3	3	2	3	3	3	2	3	3
<b>CO5</b>	3	2	3	3	2	3	3	3	2	3	3
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>14</b>	<b>15</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>14</b>	<b>15</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2.8</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.8</b>	<b>3</b>

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
<b>DU242EP1</b>	-	-	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	<b>K1</b>
2	demonstrate various kinds of dyeing techniques	<b>K2</b>
3	apply skills in different methods of printing and their techniques	<b>K3</b>
4	analyze and evaluate the dyes used for suitable fabrics	<b>K4</b>
5	evaluate and create different samples by using different styles of printing.	<b>K5 &amp; K6</b>
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> – Apply; <b>K4</b> - Analyse; <b>K5</b> - Evaluate; <b>K6</b> - Create		

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

	4.Hand Screen Printing	
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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. Carbmman 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.>
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
<b>CO1</b>	3	2	3	3	2	3	3	3	2	3	3
<b>CO2</b>	3	2	3	3	2	3	3	3	2	3	3
<b>CO3</b>	3	3	2	3	2	3	3	3	3	2	3
<b>CO4</b>	3	2	3	3	2	3	3	3	2	3	3
<b>CO5</b>	3	2	3	3	2	3	3	3	2	3	3
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>14</b>	<b>15</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>14</b>	<b>15</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2.8</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.8</b>	<b>3</b>

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.	<b>K1</b>
2	develop samples using surface enrichment	<b>K2</b>
2.	apply the machine embroidered samples in various fabric	<b>K3</b>
4.	analyse and evaluate samples for drawn thread embroidery, applique, quilting	<b>K4&amp; K5</b>
5.	create added structural effects using smocking.	<b>K6</b>

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

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

<b>Self- Study</b>	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](https://fleming.ca.uky.edu/files/clothing_storage.pdf)
- 4.[https://www.threadsmagazine.com/assets/pdf/download/TH\\_SewingMadeSimple\\_Sample.pdf](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
<b>Total</b>	<b>14</b>	<b>10</b>	<b>15</b>	<b>14</b>	<b>10</b>	<b>10</b>	<b>14</b>	<b>14</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Average</b>	<b>2.8</b>	<b>2</b>	<b>3</b>	<b>2.8</b>	<b>2</b>	<b>2</b>	<b>2.8</b>	<b>2.8</b>	<b>2</b>	<b>2</b>	<b>2</b>

**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.	<b>K1</b>
2	understand the different views of male and female face	<b>K2</b>
3	illustrate and apply garment designs for children	<b>K3</b>
4	analyse the garment designs for women.	<b>K4</b>
5	evaluate and create garment designs for men	<b>K5 &amp; K6</b>

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

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

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

<b>Self- Study</b>	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
<b>CO1</b>	2	2	2	2	2	3	3	2	2	2	2
<b>CO2</b>	2	2	3	2	2	2	2	2	2	3	3
<b>CO3</b>	2	2	3	2	2	1	3	2	2	3	3
<b>CO4</b>	3	3	2	3	3	2	2	3	3	2	2
<b>CO5</b>	3	3	3	3	3	2	2	3	3	3	3
<b>Total</b>	<b>12</b>	<b>12</b>	<b>13</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>13</b>	<b>13</b>
<b>Average</b>	<b>2.4</b>	<b>2.4</b>	<b>2.6</b>	<b>2.4</b>	<b>2.4</b>	<b>2</b>	<b>2.4</b>	<b>2.4</b>	<b>2.4</b>	<b>2.6</b>	<b>2.6</b>

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:		
<b>1</b>	understand the aim and significance of value education	<b>K1,K2</b>
<b>2</b>	develop individual skills and act confidently in the society	<b>K3</b>
<b>3</b>	learn how to live lovingly through family values	<b>K3</b>
<b>4</b>	enhance spiritual values through strong faith in God	<b>K6</b>
<b>5</b>	learn good behaviours through social values	<b>K6</b>

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

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

**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:		
<b>1</b>	understand the aim and significance of value education	<b>K1,K2</b>
<b>2</b>	develop individual skills and act confidently in the society	<b>K3</b>
<b>3</b>	learn how to live lovingly through family values	<b>K3</b>
<b>4</b>	enhance spiritual values through strong faith in God	<b>K6</b>
<b>5</b>	learn good behaviours through social values	<b>K6</b>

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

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

**Textbook**

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

**SEMESTER III**  
**CORECOURSE III: TECHNOLOGY OF APPAREL MANUFACTURING**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU243CC1</b>	<b>5</b>	-	-	-	<b>5</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge of textiles and fabric properties

**Learning Objectives**

1. To understand the sequence of apparel manufacturing processes.
2. To gain knowledge of spreading, marking, and cutting technologies used in garment production.

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	identify different spreading methods and tools used in garment production..	<b>K1 &amp;K2</b>
2	apply appropriate cutting methods for different fabric types	<b>K3</b>
3	examine stitch formation in various sewing techniques	<b>K4</b>
4	assess the role of interlining and fusing in garment construction.	<b>K5</b>
5	design an efficient garment pressing workflow using appropriate machinery	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Spreading and Marking Technology</b> Introduction to apparel manufacture- Brief study of sequence of process. Spreading – 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.	<b>15</b>
<b>II</b>	<b>Cutting Technology</b> Cutting technology – definition and objectives. Methods of cutting –hand shears, Straight knife cutting machines, Round knife cutting machines, Band knife cutting machine, notchers, computer controlled cutting knives, die cutting, laser cutting, plasma cutting, water jet cutting, ultrasonic cutting.	<b>15</b>
<b>III</b>	<b>Sewing Technology</b> Sewing machine – types. Industrial - Single needle Lock Stitch, Double Needle Lock Stitch, Overlock, Flat Lock, Bar tacking, Button hole making machine, Button fixing, blind stitch machines.	<b>15</b>
<b>IV</b>	<b>Principles of Sewing Technology</b> Embroidery machine- Free-Motion Machine Embroidery, Computerized Machine Embroidery. Seams and Stiches– Seams – eight classes Stiches – six stitch classes. Fusing – Purpose of interlining – Requirements of fusing –Fusing process. Fusing machinery and equipment's, Methods of fusing.	<b>15</b>
<b>V</b>	<b>Pressing and Packaging Technology</b> Pressing – Introduction, Classifications of pressing, Types of machinery and equipment – hand irons, under pressing and top pressing. Garment Packaging- Functional Requirements, Sales Requirements, Types of Garment Packing in Finishing	<b>15</b>

<b>Total</b>		<b>75</b>
<b>Self-study</b>	Jacquard Weave, Dobby Weave, Advantage and disadvantage of Double cloth	

**Textbooks**

1. Mary Mathews, 1996. Practical Clothing Construction – Part I and II Cosmic press, Chennai.
2. Harold Carr and Barbara Latham, 1994. The Technology of clothing Manufacture, Blackwell Science, second edition.

**Reference Books**

1. Gerry Cooklin, 1996. Introduction to clothing Manufacture, Blackwell Science.
2. Gerry Cooklin, 1996. Garment Technology for fashion designers, Blackwell Science Ltd .
3. Winifred Aldrich, 2008. *Metric Pattern Cutting for Women's Wear*, Wiley-Blackwell.
4. Claire Shaeffer, 2011. *Couture Sewing Techniques*, Taunton Press.
5. Kathleen Fasanella, 2005. *The Entrepreneur's Guide to Sewn Product Manufacturing*, Fashion-Incubator.

**Web Resources**

1. <https://textilelearner.net/process-sequence-of-garment-manufacturing/>
2. <https://www.onlineclothingstudy.com/2017/07/garment-manufacturing-process-fabric-to-fashion.html>
3. [http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed\\_INFIEP\\_8/15/ET/8\\_ENG-15-ET-V1-S1lesson.pdf](http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/15/ET/8_ENG-15-ET-V1-S1lesson.pdf)
4. [https://web.itu.edu.tr/~berkalpo/Weaving\\_Lecture/Weaving\\_Chapter1a\\_06S.pdf](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](https://www2.cs.arizona.edu/patterns/weaving/books/pea_fa_1.pdf)

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

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

**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.	<b>K1 &amp; K2</b>
2	apply the measurements to draft a basic block pattern for women's wear.	<b>K3</b>
3	analyze the drafting procedure for different styles.	<b>K4</b>
4	evaluate the fabric requirement and cost calculation based on the garment style.	<b>K5</b>
5	create and construct different style variations from the basic block pattern.	<b>K6</b>

**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
<b>Total</b>		<b>45</b>

<b>Self-study</b>	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](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
<b>CO1</b>	2	2	2	2	2	2	2	2	2	2	2
<b>CO2</b>	3	2	2	3	2	2	3	3	3	2	2
<b>CO3</b>	3	2	2	3	2	2	3	3	3	2	2
<b>CO4</b>	3	3	3	3	2	2	3	3	3	3	3
<b>CO5</b>	3	2	3	3	2	2	3	3	3	2	2
<b>TOTAL</b>	<b>14</b>	<b>11</b>	<b>12</b>	<b>15</b>	<b>10</b>	<b>10</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>11</b>	<b>11</b>
<b>AVERAGE</b>	<b>2.8</b>	<b>2.2</b>	<b>2.4</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2.8</b>	<b>2.8</b>	<b>2.8</b>	<b>2.2</b>	<b>2.2</b>

3 – Strong, 2- Medium, 1- Low

**SEMESTER III**  
**ELECTIVE COURSE III: FABRIC STRUCTURE AND DESIGN**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU243EC1	4	-	-	-	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.	<b>K1 &amp; K2</b>
2	apply the different weave structure of novelty weaves	<b>K3</b>
3	analyse the different types of figured fabrics.	<b>K4</b>
4	evaluate the mechanism in pile fabric production.	<b>K5</b>
5	create the different manufacturing process of double cloth.	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Basic Woven and its Mechanism</b> 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	<b>12</b>
<b>II</b>	<b>Novelty Weaves</b> 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.	<b>12</b>
<b>III</b>	<b>Figured Fabrics</b> 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	<b>12</b>
<b>IV</b>	<b>Double Cloth</b> 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.	<b>12</b>
<b>V</b>	<b>Knitting</b> Single Jersey Structure, Rib Structure, Interlock Structure – and its derivatives, Flat Knitting, Warp Knitting Rashel and Tricot	<b>12</b>
<b>Total</b>		<b>60</b>

<b>Self-study</b>	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. Grosickli 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. Meenakshi Rastogi, 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-S1lesson.pdf](http://content.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/3/ET/8_ENG-3-ET-V1-S1lesson.pdf).
2. [http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed\\_INFIEP\\_8/14/ET/8\\_ENG-14-ET-V1-S1lesson.pdf](http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/14/ET/8_ENG-14-ET-V1-S1lesson.pdf)
3. [http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed\\_INFIEP\\_8/15/ET/8\\_ENG-15-ET-V1-S1lesson.pdf](http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/15/ET/8_ENG-15-ET-V1-S1lesson.pdf)
4. [https://web.itu.edu.tr/~berkalpo/Weaving\\_Lecture/Weaving\\_Chapter1a\\_06S.pdf](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](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
<b>CO1</b>	2	2	2	2	2	3	3	2	2	2	2
<b>CO2</b>	2	1	3	2	2	2	2	2	1	3	2
<b>CO3</b>	2	2	3	2	2	1	3	2	2	3	2
<b>CO4</b>	3	2	2	2	2	2	2	3	2	2	2
<b>CO5</b>	3	3	3	2	2	2	2	3	3	3	2
<b>TOTAL</b>	<b>12</b>	<b>10</b>	<b>13</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>13</b>	<b>10</b>
<b>AVERAGE</b>	<b>2.4</b>	<b>2</b>	<b>2.6</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2.4</b>	<b>2.4</b>	<b>2</b>	<b>2.6</b>	<b>2</b>

3 – Strong, 2- Medium, 1- Low

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

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU243EP1</b>	-	-	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.	<b>K1</b>
2	understand about the design, draft and lift basic weaves	<b>K2</b>
3	apply the different weaves of Knitted Fabrics	<b>K3</b>
4	analyse and evaluate different types of figured fabrics	<b>K4 &amp; K5</b>
5	create the different weave structure of figured fabrics	<b>K6</b>

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

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

<b>Self-study</b>	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](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](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](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](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](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**  
**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	<b>K1</b>
2	understand the usage of ancient techniques	<b>K2</b>
3	compare and apply contrast the various costumes of India	<b>K3</b>
4	identify and evaluate different states of embroideries of India	<b>K4&amp;K5</b>
5	create the traditional saree in India	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>ORIGIN AND GROWTH OF COSTUME</b> Beginning and growth of costume - Painting, Cutting and Tattooing. Traditional Accessories and Ornaments used in India.	<b>6</b>
<b>II</b>	<b>WOVEN, DYED AND PRINTED TEXTILES OF INDIA</b> 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	<b>6</b>
<b>III</b>	<b>TRADITIONAL COSTUME OF DIFFERENT STATES IN INDIA</b> Traditional costume of different states in India - Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Maharashtra, Rajasthan, Haryana, Uttar Pradesh, Jammu and Kashmir, Gujarat.	<b>6</b>
<b>IV</b>	<b>INDIAN JEWELLERY</b> 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	<b>6</b>
<b>V</b>	<b>TRADITIONAL EMBROIDERIES OF INDIA</b> 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.	<b>6</b>
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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 Flynn, 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/](https://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
<b>CO1</b>	1	1	3	1	2	1	2	3	1	2	1
<b>CO2</b>	2	3	2	3	2	3	2	2	3	2	3
<b>CO3</b>	3	3	3	3	2	2	3	3	3	2	2
<b>CO4</b>	2	3	3	3	3	2	3	3	3	3	2
<b>CO5</b>	2	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>	<b>10</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>12</b>	<b>11</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>11</b>
<b>AVERAGE</b>	<b>2</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.2</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2.2</b>

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
<b>I</b>	<b>Understanding Health and Physical Fitness</b> 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.	<b>6</b>
<b>II</b>	<b>Techniques of Mindfulness</b> 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.	<b>6</b>
<b>III</b>	<b>Foundations of Fitness</b> Stretching techniques to improve flexibility. Yoga-Definition, yoga poses (asanas) for beginners, Sun Salutations (Surya Namaskar), Yoga Nidra – benefits of yoga nidra.	<b>6</b>
<b>IV</b>	<b>Nutrition and Wellness</b> Role of nutrition in fitness - macronutrients, micronutrients - mindful eating practices, balanced diet - consequences of overeating. Components of healthy food. Food ethics.	<b>6</b>
<b>V</b>	<b>Personal Hygiene Practices</b> 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.	<b>6</b>
	<b>Total</b>	<b>30</b>

<b>Self-study</b>	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/1IYOAwAABAJ?hl=en&gbpv=1&dq=fitness+for+wellbeing&printsec=frontcover](https://www.google.co.in/books/edition/Psychology_of_Health_and_Fitness/1IYOAwAABAJ?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](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/96DwAAQBAJ?hl=en&gbpv=1&dq=fitness+for+wellbeing&printsec=frontcover](https://www.google.co.in/books/edition/Physical_Activity_and_Mental_Health/96DwAAQBAJ?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/pLPAXPLIMv0C?hl=en&gbpv=1&bsq=fitness+for+wellbeing&dq=fitness+for+wellbeing&printsec=frontcover](https://www.google.co.in/books/edition/The_Complete_Manual_of_Fitness_and_Well/pLPAXPLIMv0C?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](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
<b>DU233V01</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>30</b>	<b>25</b>	<b>75</b>	<b>100</b>

**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**

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

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

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

	stitches (Minimum 5)	
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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](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
<b>CO1</b>	3	3	2	2	2	2	3	3	2	2	2
<b>CO2</b>	3	3	2	2	2	2	3	3	2	2	2
<b>CO3</b>	3	3	2	2	2	2	3	3	2	2	2
<b>CO4</b>	3	3	2	2	2	2	3	3	3	2	2
<b>CO5</b>	3	3	2	2	2	2	3	3	2	2	2
<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>

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	<b>K1</b>
2	understand the needs and factors for household products	<b>K2</b>
3	apply the elements of design in interior decoration	<b>K3</b>
4	analyse and evaluate the design standardization	<b>K4 &amp; K5</b>
5	evaluate the development of modern decor styles	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>OVERVIEW OF INTERIOR DECORATION AND HOUSING</b> 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.	<b>6</b>
<b>II</b>	<b>ELEMENTS OF INTERIOR DESIGN AND DECORATION</b> 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.	<b>6</b>
<b>III</b>	<b>PRINCIPLES OF DESIGNS IN INTERIOR DECORATION</b> 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.	<b>6</b>
<b>IV</b>	<b>USE OF COLOUR IN INTERIOR DESIGN</b> 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	<b>6</b>
<b>V</b>	<b>HOME FURNISHING FOR INTERIOR DESIGN</b> 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.	<b>6</b>
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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](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
<b>CO1</b>	2	2	2	2	2	2	3	3	2	2	2
<b>CO2</b>	2	2	2	2	2	2	3	3	2	2	2
<b>CO3</b>	2	2	2	2	2	2	3	3	2	2	2
<b>CO4</b>	3	3	2	2	2	2	3	3	3	2	2
<b>CO5</b>	2	2	2	2	2	2	3	3	2	2	2
<b>TOTAL</b>	<b>11</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>10</b>	<b>10</b>
<b>AVERAGE</b>	<b>2.2</b>	<b>2.2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2</b>	<b>2</b>

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	<b>K1</b>
2	differentiate the types of fibers used in making sewing and embroidery threads	<b>K2</b>
3	apply the various types of closures used in apparels.	<b>K3</b>
4	analyse and evaluate about the various types of trims used	<b>K4 &amp; K5</b>
5	create the quality requirements for poly bag and carton box	<b>K5</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>GARMENT ACCESSORIES</b> 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.	<b>6</b>
<b>II</b>	<b>SEWING AND EMBROIDERY THREADS</b> 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	<b>6</b>
<b>III</b>	<b>CLOSURES</b> 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.	<b>6</b>
<b>IV</b>	<b>SUPPORTING AND DECORATIVE TRIMS</b> 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.	<b>6</b>
<b>V</b>	<b>PACKING ACCESSORIES</b> Tags and its types– Polybags and its types-Quality norms pertaining to polybags–Hangers and its types – Cartons and its types –Factors to be	<b>6</b>

	considered for export cartons – Wrappers and Tissues – Pouches for innerwear–Latest innovation in packing accessories.	
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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](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
<b>CO1</b>	3	2	3	2	2	3	3	2	3	2	2
<b>CO2</b>	3	2	3	2	2	3	3	2	3	2	2
<b>CO3</b>	3	2	3	2	2	3	3	2	3	2	2
<b>CO4</b>	3	2	3	2	2	3	3	2	3	2	2
<b>CO5</b>	3	2	3	2	2	3	3	2	3	2	2
<b>TOTAL</b>	<b>15</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>15</b>	<b>10</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>

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
<b>DU233SL1/ DU235SL1</b>	-	-	-	-	<b>1</b>	-		<b>25</b>	<b>75</b>	<b>100</b>

**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**

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

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

<b>Units</b>	<b>Contents</b>
<b>I</b>	<b>Sustainability in Fashion</b> Introduction: Fashion, Sustainability, Pillars of sustainability, Sustainable fashion – meaning and importance.
<b>II</b>	<b>Fashion and Clothing</b> Clothing lifecycle, clothing care, fast and slow fashion, clothes repair and re-use
<b>III</b>	<b>Ethical Fashion</b> Concepts of recycling and upcycling. Carbon footprint, water footprint and energy consumption of fashion industry.
<b>IV</b>	<b>Green Consumerism</b> Eco-textiles, green consumerism and waste reduction, consumer responsibility towards sustainable fashion. 3Rs – Reduce, Reuse and Recycle.
<b>V</b>	<b>Sustainable Fashion Brands and Labels</b> 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](https://www2.cs.arizona.edu/patterns/weaving/books/pea_fa_1.pdf)

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

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

**3 – Strong, 2- Medium, 1- Low**

**SEMESTER IV**  
**CORE COURSE IV: DYNAMICS OF FASHION**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU244CC1</b>	<b>5</b>	-	-	-	<b>5</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge of textiles and fabric types

**Learning Objectives**

1. To understand the origin, evolution, and significance of fashion.
2. To identify different types of designers and their sources of inspiration.

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1	identify different types of silhouettes such as natural body, slim line, wedge, etc.	<b>K1 &amp; K2</b>
2	apply knowledge of the designer's role in the fashion industry	<b>K3</b>
3	examine the factors influencing the movement of fashion.	<b>K4</b>
4	evaluate the sources of design inspiration and their impact on creativity	<b>K5</b>
5	develop a strategic business model inspired by global fashion brands	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Origin of Fashion</b> Origin of Fashion – Importance of fashion - Development of fashion, Components of fashion-Design Details, Texture, Color and Silhouette. Types of silhouette – Natural Body, Slim line, Wedge, Hour Glass, Extreme Volume Silhouette.	<b>15</b>
<b>II</b>	<b>Fashion Focus</b> Fashion Focus – The designers Role, The Manufacturers Role, The Retailers Role. Scope of Fashion Business – Primary Level, The Secondary Level, The retail level and the Auxiliary level. Study about International Designers – Fashion related cycle and theories.	<b>15</b>
<b>III</b>	<b>The Movement of Fashion</b> The Movement of Fashion - Factors influencing fashion movement - Accelerating factors, Retarding factors, and Recurring fashions. Predicting the movement of fashion.	<b>15</b>
<b>IV</b>	<b>Types of Designers</b> Types of designers – High fashion Designer, Stylist, and Freelance Designer. Sources of design inspiration. Indian fashion Designers- Manish Malhotra, Ritu kumar, Ritu berri, Tarun Tahilani, Wendell Rodricks, Abu Jani and Sandeep Khosla, JJ Valaya, Rina Dhaka, Manish Arora, and Rohit Bal.	<b>15</b>
<b>V</b>	<b>Study of International Fashion centers</b> Study of International Fashion centers – France, Italy, England, Germany, Canada, New York. Study of International Fashion Brands – Women's Wear, Men's Wear, Kids Wear, Sports Wear, Cosmetics and Accessories.	<b>15</b>
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Manish Malhotra, Ritu Kumar, Women's Wear, Men's Wear
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**Textbooks**

1. Frings, G. S. (2008). *Fashion: From Concept to Consumer*. Pearson.
2. Stone, E. (2018). *The Dynamics of Fashion*. Fairchild Books.

**Reference Books**

1. Satish K. Bhardwaj and Pradip, V. Metha, 2000, *Managing Quality in Apparel Industry*, □ Gale, C., & Kaur, J. (2002). *The Textile Book*. Berg Publishers.
2. Tortora, P. G., & Eubank, K. (2010). *Survey of Historic Costume: A History of Western Dress*. Fairchild Books.
3. Jarnow, J., Guerreiro, M., & Judelle, B. (1987). *Inside the Fashion Business*. Pearson.
4. Steele, V. (2000). *Fifty Years of Fashion: New Look to Now*. Yale University Press.
5. McDowell, C. (1997). *Fashion Today*. Phaidon Press.

**Web Resources**

1. [https:// www.businessoffashion.com/textile-fibers-identification-process](https://www.businessoffashion.com/textile-fibers-identification-process)
2. <https://www.vogue.com/2020/04/identification-of-textile-fibers.html>
3. [https:// www.fashionsnoops.com?v=nJz9c8gEvF](https://www.fashionsnoops.com?v=nJz9c8gEvF)
4. [https:// www.wwd.com/industry-article/1942/machine-testing](https://www.wwd.com/industry-article/1942/machine-testing)
5. [https:// www.thefashionlaw.com/industry-article/4135/history-of-testing](https://www.thefashionlaw.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: CONSTRUCTION OF MEN'S WEAR**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU244CP1	-	-	3	-	3	3	45	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	illustrate various silhouette and designs for men's wear garments.	<b>K1</b>
2	select the necessary tools and equipments for sewing the garments.	<b>K2</b>
3	develop patterns for men's wear garments	<b>K3 &amp; K4</b>
4	assume the measurement given in the instruction.	<b>K5</b>
5	construct garments based on the measurement by using sewing machine.	<b>K6</b>

**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 measurements required and materials suitable
- Calculate the cost of materials.
- Calculate the material require layout method and direct measurement method.

Units	Contents	No. of Hours
<b>I</b>	1, Slack Shirt – Open Collar, Patch Pocket, Half Sleeve 2, T – Shirts – Front Half Open, Zip Attached, With or Without Collar.	<b>9</b>
<b>II</b>	3, Full Sleeve Shirt – Open Collar, Patch Pockets, Full Sleeve with Cuff 4, Pleated Trousers – Pleats in Front, Draft At Back, Side Pockets, Fly With Buttons (or) Zip, Belt with Adjustable Strap.	<b>9</b>
<b>III</b>	5, Bell Bottom – Bell Bottom, Pleatless, Side Pockets, Fly with Zip/Button 6, Narrow Bottom - Narrow Bottom, Hip Pockets, Pleats	<b>9</b>
<b>IV</b>	7, Kalidar Kurta – Kali Piece, Side Pocket, Round Neck, Half Open 8, Nehru Kurta – Half Open, Stand Collar, With (or) Without Pockets, Full Sleeve	<b>9</b>
<b>V</b>	9. Pyjama – Tape (or) Elastic Attach Waist, Fly 10. Single Breast Vest – Coat Collar, Coat Sleeve, Pocket 11. Night Dress - Round Neck or Collar attached, Overlap Front, Tap attached.	<b>9</b>
<b>Total</b>		<b>45</b>

<b>Self-study</b>	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. MaryMathew, "Practical Clothing Construction" - Part-I & II, Cosmic Press, Chennai, 1986.
2. K.R.Zarapkar , "Zarapkar System of Cutting" Navneet Publication Limited, New edition- 2017.
3. Jacob Solinger, *Apparel Manufacturing: Sewn Product Analysis*, Pearson, 2008.
4. Ruth E. Glock and Grace I. Kunz, *Apparel Manufacturing: Sewn Product Analysis*, Pearson, 5th Edition, 2014.
5. Rajkishore Nayak and Rajiv Padhye, *Garment Manufacturing Technology*, Woodhead Publishing, 2015.

**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	2	2	2	2	3	2	2	2	2	2	2
CO2	2	2	2	2	3	2	2	2	3	3	3
CO3	3	3	3	3	2	3	3	3	3	3	3
CO4	2	3	3	2	2	3	3	3	3	3	3
CO5	2	3	3	3	2	3	3	3	3	3	3
TOTAL	11	13	13	12	12	13	13	13	14	14	14
AVERAGE	2.2	2.6	2.6	2.4	2.4	2.6	2.6	2.6	2.8	2.8	2.8

32.6 – Strong, 2- Medium, 1- Low

**SEMESTER IV**  
**ELECTIVE COURSE IV: TEXTILE TESTING AND QUALITY CONTROL**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU244EC1	4	-	-	-	3	4	60	25	75	100

**Pre-requisite**

Basic knowledge in Textile Testing and Quality Control

**Learning Objectives**

1. To know and identify the type of fibres.
2. To analyse and 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	<b>K1</b>
2	agree the standard and specification in textile industry.	<b>K2</b>
3	apply and analyze the identification of textile fibres	<b>K3 &amp; K4</b>
4	identify and evaluate the yarn analyze in textile industry.	<b>K5</b>
5	assess and create the fabric analyze in testing	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Textile and Quality Control</b> 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.	<b>12</b>
<b>II</b>	<b>Fibre Analysis</b> 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.	<b>12</b>
<b>III</b>	<b>Yarn Analysis</b> 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.	<b>12</b>
<b>IV</b>	<b>Fabric Analysis</b> Length, Width, Bow, Skewness, Weight, Thickness, Breaking Strength, Abrasion Resistance, Crease Recovery, Stiffness of fabrics and Drapability.	<b>12</b>
<b>V</b>	<b>Standards and specification</b> Standards and specification in Textile Industry, Quality Control Aspects, Colour Fastness tests in Textiles-Crocking, Perspiration, Sunlight, Laundering.	<b>12</b>
<b>Total</b>		<b>60</b>

<b>Self-study</b>	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. 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 LAB COURSE IV: TEXTILE TESTING AND QUALITY CONTROL**  
**LABORATORY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU244EP1	-	-	2	-	2	2	45	25	75	100

**Pre-requisite**

Basic knowledge about Textile Testing and Quality Control

**Learning Objectives**

1. To identify the type of fibres.
2. To analyse fabric counting methods

**Course Outcomes**

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

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

Units	Contents	No. of Hours
I	1. Fiber 2. FibreTesting 3. Longitudinal view test using Microscope Fibre Length using BaerSorter 4. Burning Test 5. Chemical Test	6
II	1. Yarn Testing 2. Yarn Count using Wrap Reel and Electronic Balance Yarn Count Beesley Balance and Quadrant Balance	6
III	1. YarnTesting 2. Yarn Twist using Twist tester 3. Yarn Strength using Lea StrengthTester	6
IV	1. Fabric Testing 2. Fabric length and Width Fabric thickness 3. Fabric Weight Bursting Strength 4. Crease Recovery	6
V	1. Fabric Testing 2. Stiffness Drape 3. Fabric warp and weft Crimp Rubbing fastness 4. Washing fastness	6
<b>Total</b>		<b>30</b>

<b>Self-study</b>	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
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>15</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>13</b>	<b>13</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.6</b>	<b>2.6</b>

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	<b>Microsoft Word 2010:</b> 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	<b>Formatting Characters and Paragraphs:</b> 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	<b>Microsoft Excel 2010:</b> 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	<b>Microsoft PowerPoint 2010:</b> Creating a Presentation - Changing the Slide Size and 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.	6
V	<b>Digital Platforms:</b> 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
	<b>Total</b>	<b>30</b>

<b>Self-study</b>	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](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**

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

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

Units	Contents	No. of Hours
<b>I</b>	<b>Nature of Environmental Studies</b> 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.	<b>6</b>
<b>II</b>	<b>Biodiversity and its Conservation</b> 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.	<b>6</b>
<b>III</b>	<b>Environmental Pollution</b> 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.	<b>6</b>
<b>IV</b>	<b>Environmental Management and Sustainable Development</b> 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.	<b>6</b>
<b>V</b>	<b>Social Issues and the Environment</b> 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	<b>6</b>

	change - global warming, acid rain and ozone layer depletion. <b>Field work:</b> 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.	
	<b>Total</b>	<b>30</b>

<b>Self-study</b>	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/](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:**

1. To develop human values through value education
2. 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	<b>K1,K2</b>
2	get rid of inferiority complex and act confidently in the society	<b>K3</b>
3	live lovingly by facing loneliness and make decisions on their own	<b>K3</b>
4	develop human dignity and able to stand bravely in adversity	<b>K6</b>
5	learn unity in diversity and grow in a life of grace	<b>K6</b>

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

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

**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	<b>Edu Care:</b> Introduction- -Personal Care-Temple of Mind-Emotional stability- Inner views- Internal and external Beauty- Life is a Celebration	3
II	<b>Self-care:</b> Self- discipline- Selfishness in doing good things- Adolescence stage- What am I? - Self-esteem- Self-Confidence- Respect for womanhood	3
III	<b>Profession based Values:</b> Time Management-Continuous effort- What next? –Present moment is yours, Hard work and Smart Work-Broad view- destruct your failures	3
IV	<b>Mystical Values:</b> Thoughts- Positive and negative thoughts- Origin of negative thoughts-Moralisation of needs- Elimination of obstacles	3
V	<b>Society and you:</b> Knowing Humanity-Thankfulness- love and happiness- Honesty- Heroism -Youth is gift of God-Youngsters in politics and social media utilization.	3
<b>TOTAL</b>		<b>15</b>

**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	<b>K1</b>
2	understand the art forms of different cultures in fashion	<b>K2</b>
3	create the Indian aesthetics forms in fashion	<b>K3</b>
4	analyze the types of aesthetics in fashion	<b>K4</b>
5	evaluate and create the digital art forms in fashion	<b>K5 &amp; K6</b>

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

Units	Contents
<b>I</b>	<b>INTRODUCTION TO ART IN FASHION</b> 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.
<b>II</b>	<b>TYPES OF AESTHETICS IN FASHION</b> 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
<b>III</b>	<b>INDIAN AESTHETICS IN FASHION</b> Indian Aesthetics in fashion: Indian aesthetics – beauty and rasa in fashion; Dhvani theory in fashion, Tamil aesthetics. Agam/ Puram and Thina in fashion.
<b>IV</b>	<b>MODERN ART IN FASHION</b> 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.
<b>V</b>	<b>ART IN DIGITAL AGE IN FASHION</b> 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](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
<b>CO1</b>	2	2	2	2	2	3	3	2	2	2	2
<b>CO2</b>	2	1	3	2	2	2	2	2	1	3	2
<b>CO3</b>	2	2	3	2	2	1	3	2	2	3	2
<b>CO4</b>	3	2	2	2	2	2	2	3	1	2	2
<b>CO5</b>	3	3	3	2	2	2	2	3	3	3	2
<b>TOTAL</b>	<b>12</b>	<b>10</b>	<b>13</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>13</b>	<b>10</b>
<b>AVERAGE</b>	<b>2.4</b>	<b>2</b>	<b>2.6</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2.4</b>	<b>2.4</b>	<b>2</b>	<b>2.6</b>	<b>2</b>

3 – Strong, 2- Medium, 1- Low

**SEMESTER V**  
**CORE COURSE V: ORGANIZATION OF GARMENT UNIT**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU235CC1	5	-	-	-	4	5	75	25	75	100

**Pre-requisite**

Basic knowledge on garment and quality

**Learning Objectives**

1. To enable student to become a successful entrepreneur/manager in the future
2. To impart knowledge on the organization of the various departments of a garment unit

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	define the types and qualities of an entrepreneur	<b>K1 &amp; K2</b>
2	organize the structure of a garment unit	<b>K3</b>
3	analyze the importance of factory design and its layouts	<b>K4</b>
4	evaluate the costing strategies of a garment unit	<b>K5</b>
5	create and appraise the setting up of a garment unit	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Entrepreneur and Management</b> Entrepreneur-Meaning, definition and types, need for Entrepreneurs, qualities, and role of Entrepreneur. Management–Definition. Management as a process– Planning, organizing, Directing, Controlling and Coordination. Difference between Entrepreneur and Manager.	<b>15</b>
<b>II</b>	<b>Organizational Structure of a Garment Unit</b> Organizational structure of a garment unit, Design department, Finance department, purchasing department, Production department, organizing different sections–Hierarchy Personnel involved in all the departments, nature of the job. Role of HR in apparel industry.	<b>15</b>
<b>III</b>	<b>Factory Design and Layout</b> Factory Design and layout – importance of factory design, factors affecting factory design, Types of buildings (single and Multi-Storey)–advantages and limitation. Factory layout– Process, Product and combined –requirements relating to health, safety and welfare. Balancing Stepstobalancetheline-Initialbalance-Balancecontrol-Efficiency-Cyclechecks- Balancing tools.	<b>15</b>
<b>IV</b>	<b>Principles of Costing</b> Principles of costing-Requirement of good costing system. Cost estimation of yarn and fabric. Cost estimation for dyeing, printing, embroidery, cutting, stitching, checking, packing, final inspection, shipping and insurance.	<b>15</b>
<b>V</b>	<b>Garment Export Unit</b>	<b>15</b>

	Performance of Indian Garment Export and Institutions supporting Entrepreneurs, SWOC Analysis Setting up of garment unit for export market, Export Document, Export Finance-Payment method, Export shipping. Institution supporting entrepreneurs DIC, NSIC, SISI, SIPCOT, TIL, KVIC, CODISSIA, Commercial banks –SBI.	
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Different types of cost for Dyeing, Printing and Stitching
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**Text Books:**

1. Chester ,1998, 2ndEdition , “Introduction to Clothing Production Management,” Wrenbury Associates Ltd.
2. Krishna kumar. 2011 “Apparel Costing, A functional Approach”, Abishek Publications, Chandigarh,.

**Reference Books:**

1. Dinakarapagare & Sultan, 2015 Principles of management, Delhi: Chand & SonsPrint.
2. Gupta & Dr N. P. Srivivasan & Sultan,1997.Entrepreneurship Development in India, Delhi: Chand & sons, Print.
3. Chester ,1998. Introduction to clothing production management, (2nded,), Wrenbury Associates Ltd. Print.
4. HaroldCarr & Barbara Latham 1994. The Technology of Clothing Manufacture, HonKong, Black well Science Print.
5. V.Ramesh Babu, 2012,” Industrial Engineering in Apparel Production”, Wood Head Publishing India in Textiles,

**Web Resources**

- 1 <https://lonelyentrepreneur.com/types-of-entrepreneurs/>
- 2 <https://textilecourse.blogspot.com/2019/02/plant-layout-textile-garment-industry.html>
- 3 <https://www.fibre2fashion.com/industry-article/7665/the-organisation-of-a-clothing-factory>
- 4 <https://apparelcosting.blogspot.com/2017/05/apparel-costing-principles.html>
- 5 <https://www.onlineclothingstudy.com/2019/04/how-to-start-garment-business.html>

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
<b>CO1</b>	3	2	2	3	2	2	3	3	2	2	2	2
<b>CO2</b>	3	2	2	3	2	2	3	3	2	2	2	2
<b>CO3</b>	3	3	3	3	3	3	3	3	3	3	3	2
<b>CO4</b>	3	2	2	3	2	2	3	3	2	2	3	2
<b>CO5</b>	3	2	2	3	2	2	3	3	2	2	3	2
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>13</b>	<b>10</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>2.6</b>	<b>2</b>

3 – Strong, 2- Medium, 1- Low

**SEMESTER V****CORE COURSE VI: APPAREL EXPORT AND TRADE DOCUMENTATION**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU235CC2	5	-	-	-	4	5	75	25	75	100

**Pre-requisite**

Basic Knowledge about Export Business

**Learning Objectives**

1. To apply the terms and methods in the documentation purpose
2. To understand about the license procedure, pre-shipment charges and transaction

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	find the details of export marketing and its function	<b>K1 &amp; K2</b>
2	apply the export policies in India.	<b>K3</b>
3	Plan and analyse the export marketing behaviours.	<b>K4</b>
4	evaluate the function of shipment process in Export marketing	<b>K5</b>
5	create the Propose of export procedure and documentation	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Export Marketing</b> Export marketing -Definition, Features, Importance of Export Marketing, Distinguish between Domestic and Export Marketing, Present Problems and Difficulties faced by Indian exporters. Objective and Function of WTO	<b>15</b>
<b>II</b>	<b>Export Policies</b> A.E.P.C.'s function and role in the administration of export entitlement policy export promotional activities of A.E.P.C, Exim Policies and Marine Insurance	<b>15</b>
<b>III</b>	<b>Export Marketing</b> Cash Compensatory Support, Market Development Assistant, Market Access Initiative, 100% Export Oriented Units, Free trade zone, Duty drawback	<b>15</b>
<b>IV</b>	<b>Export Finance</b> Export Finance – Meaning and Features of Pre-Shipment Finance –Post-Shipment Finance, Export – Import bank of India (EXIM BANK) - Objective and Function, Export Credit Guarantee Corporation of India (ECGC) - Objective and Function.	<b>15</b>
<b>V</b>	<b>Export Procedure and Documentation</b> Export Procedure and Documentation –Registration Stages, Pre-shipment Stages, Shipment Stages, Post-shipment Stages, Commercial Documents – Principal and Auxiliary, Importance of Warehousing.	<b>15</b>
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Different types of Shipment, Different types of Documents
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**Textbooks**

1. C. Rama Gopal, 2019," Export Import Procedures, Documentation and Logistics".
2. Jung Ha-Brookshire, 2017 "Global Sourcing and Supply Chain Management for the Textile and Apparel Industry

**Reference Books**

1. Rama Gopal, 1998 "Export Import Procedures, Documentation and Logistics"
2. Jung Ha-Brookshire, 2005 "Global Sourcing and Supply Chain Management for the Textile and Apparel Industry"
3. Justin Paul & Rajiv Aserkar, 2006, "Export-Import Management"
4. Gerald Albaum, Edwin Duerr, & Alexander Strandskov, 2007, "International Marketing and Export Management"
5. Mary G. Wolfe, 2010 "Fashion Marketing and Merchandising"

**Web Resources**

1. <https://www.fibre2fashion.com/industry-article/3730/fashion-designing-the-then-and-now>
2. <https://sewguide.com/frock-pattern-sewing/>
3. [www.textileexchange.org](http://www.textileexchange.org)
4. [www.apparelresources.com](http://www.apparelresources.com)
5. [www.trade.gov](http://www.trade.gov)

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER V**  
**CORE LAB COURSE V: CONSTRUCTION OF MEN'S WEAR**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU233CP1	-	-	5	-	4	5	75	25	75	100

**Pre-requisite:**

Basic knowledge of garment construction, fabric types, sewing techniques, pattern making, and measurement analysis.

**Learning Objectives**

1. To understand the Men's Wear Design and Construction
2. To apply Fabric Selection and Cutting Techniques

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	illustrate various silhouette and designs for men's wear garments.	K1 & K2
2	apply the necessary tools and equipments for sewing the garments	K3
3	analyse the patterns for men's wear garments	K4
4	evaluate the measurement given in the instruction	K4
5	create the design based on garments measurement by using sewing machine	K6

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

Units	Contents	No. of Hours
I	<b>Slack Shirt</b> – Open Collar, Patch Pocket, Half Sleeve.	15
	<b>T – Shirts</b> – Front Half Open, Zip Attached, With or Without Collar.	
II	<b>Full Sleeve Shirt</b> – Open Collar, Patch Pockets, Full Sleeve with Cuff.	15
	<b>Pleated Trousers</b> – Pleats In Front, Draft At Back, Side Pockets, Fly With Buttons (or) Zip, Belt with Adjustable Strap.	
III	<b>Bell Bottom</b> – Bell Bottom, Pleatless, Side Pockets, Fly with Zip/Button	15
	<b>Narrow Bottom</b> - Narrow Bottom, Hip Pockets, Pleats.	
IV	<b>Kalidar Kurta</b> – Kali Piece, Side Pocket, Round Neck, Half Open	15
	<b>Nehru Kurta</b> – Half Open, Stand Collar, With (or) Without Pockets, Full Sleeve	
V	<b>Single Breast Vest</b> – Coat Collar, Coat Sleeve, Pocket	15
	<b>Night Dress</b> -Round Neck or Collar attached, Overlap Front, Tap attached.	
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Fabric Preparatory Processing, Dyeing Techniques, Types of Textile Finishes
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**Textbooks**

1. Myoungok Kim & Injoo Kim ,2014 “Patternmaking for Menswear”
2. Lori A. Knowles, 2014 , "The Practical Guide to Patternmaking for Fashion Designers: Menswear"

**Reference Books**

1. Winifred Aldrich , 2016 "Metric Pattern Cutting for Menswear" 6th Edition

2. Roberto Cabrera & Patricia Flaherty Meyers ,2015"Classic Tailoring Techniques for Menswear: A Construction Guide"
3. Editors of Creative Publishing International ,2011,"Tailoring: The Classic Guide to Sewing the Perfect Jacket"
4. David Page Coffin ,1998"Shirt making: Developing Skills for Fine Sewing"
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. [www.sewguide.com](http://www.sewguide.com)
4. [www.patternlab.london](http://www.patternlab.london)
5. [www.cutterandtailor.com](http://www.cutterandtailor.com)

#### MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low



**SEMESTER V**  
**CORE RESEARCH PROJECT**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
DU235RP1	-	-	5	-	4	5	75	Internal	External	Total
								25	75	100

**Guidelines**

- ❖ All the students must undertake project work at the final year (V semester) as a group (4 to 5 students per group).

**Distribution of marks for project 25:75**

**Internal Components**

Internal Viva= 15marks

Regularity and Systematic work= 10marks

**External Components**

Dissertation =30marks

Innovation =15marks

Presentation and Viva =30marks

**Project frame work**

1. The Project format should be in:

- ❖ Font–Times New Roman
- ❖ Heading–Fontsize14(Bold)– Uppercase
- ❖ Subheadings–Fontsize12(Bold)—Lowercase; should be numbered.(Eg: Introduction 1; Subheading 1.1; 1.2)
- ❖ Text, the content of the dissertation—Font size– 12 (Normal).
- ❖ Linespace–1.5
- ❖ Margin–2"ontheleftand1"ontheright,Gutter–0.5.
- ❖ Page Numbering Bottom middle alignment; excluding initial pages and reference
- ❖ Total number ofpagesMinimum30, Maximum40 (Excluding initial pages and reference).
- ❖ The Tables and Figures should be included subsequently after referring them in the text of the Report.

II. Project Report must be completed within the stipulated time.

III. Submission of Project Report:

- ❖ One soft copy (PDF format )
- ❖ Hard copy (soft binding) duly signed and endorsed by the Supervisor and the Head.

The Project Report will have three main parts:

I. Initial Pages–in the following sequence

- i). Title Page
- ii). Certificate from the Supervisor
- iii). Declaration by the candidate endorsed by the Supervisor and HOD
- iv). Acknowledgement (within one page–signed by the candidate).
- v). Table of Contents
- vi). List of abbreviations

## II. Main body of the dissertation

- i) Introduction and Objectives
- ii) Methodology
- iii) Results
- iv) Discussion
- v) Summary
- vi) References

**The guidelines for reference****Journal Article: with Single Author**

Waldron, S2008, "Generalized Welch bound equality sequences are tight frames", IEEE Transactions on Information Theory, vol.49, no. 9, pp. 2307 – 2309.

**Journal Article: with Two Authors**

Conley, TG & Galeson, DW 1998, "Nativity and wealth in mid–nineteenth century cities", Journal of Economic History, vol. 58, no.2, pp. 468– 493.

**Journal Article: with more than two Authors**

Alishahi, K, Marvasti, F, Aref, VA & Pad, P 2009, "Bounds on the sum capacity of synchronous binary CDMA channels", Journal of Chemical Education, vol. 55, no. 8, pp.3577– 3593.

**Books**

Holt, DH 1997, Management Principles and Practices, Prentice–Hall, Sydney.  
Centre for Research, MS University–Ph.D.Revised GuidelinesPage|39/41

**E–book**

Aghion, P&Durlauf,S(eds.)2005, Hand book of Economic Growth, Elsevier, Amsterdam. Available from: Elsevier books. [4 November 2004].

**SEMESTER V**  
**DISCIPLINE SPECIFIC ELECTIVE I: a) TECHNICAL TEXTILE**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU235DE1</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>4</b>	<b>60</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge about Business.

**Learning Objectives**

1. To acquire knowledge in technical textile.
2. To develop an understanding of fiber in technical textile.

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1	understand the characteristics of technical textiles its types	<b>K1</b>
2	discover the properties of Technical textiles and its types	<b>K2</b>
3	Interpret and apply the area of applications of types of technical textiles	<b>K3</b>
4	analyse and evaluate recognize the underlying concepts	<b>K4 &amp; K5</b>
5	create the concepts in creation of garments	<b>K6</b>

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>1</b>	<b>Technical Textiles</b> Definition and Scope, Categories of Technical Textiles, Industrial Textile: Fibres used - functions and properties - introduction to coated fabrics - Coating methods: Direct and indirect - Lamination methods: Flame bonding and adhesive lamination - Applications of coating and laminated textiles	<b>12</b>
<b>2</b>	<b>Medical Textiles</b> Classification, Fibers used and their properties required, Medical textile Products – Properties, functions.	<b>12</b>
<b>3</b>	<b>Geo Textiles</b> Definition, Fibers used in geo textiles – requirement of fibers – Functions of Geo Textiles – Separation, Filtrations, Drainage, Reinforcement-Textiles in Agriculture, Electronics. Textiles for Banners and Flags. Textile Reinforced-Products, Transport Bags and Sheets, Pack-tech related applications, Fabrics to Control Oil-Spills, Canvas Covers and Tarpaulins, Ropes and Nets, Home and Office Furnishings	<b>12</b>
<b>4</b>	<b>Automotive Textiles</b> Suitable fibers for automotive industry -Safety devices – Airbags – Materials used – Types of fabric – Seat belts – Types, Fabric used.	<b>12</b>
<b>5</b>	<b>Productive Textiles</b>	<b>12</b>

	Bullet Proof fabrics – fire retarding fabrics – high temperature fabrics – High visibility clothing. Fibers used and properties of fabrics, Smart textiles and intelligent textiles.	
<b>Total</b>		<b>60</b>

<b>Self-study</b>	Military Textiles in Cameo plaque Application
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**Textbooks**

- 1 Horrocks, A.R.& Anand S.C.,2000.Handbook of Technical Textiles ,U.K. Wood Head Publishing Ltd. Print.
- 2 Adanur, 2001Hand book of Industrial Textiles. Technomic Publication.

**Reference Books**

1. Adanur &S. Wellington Sears, 1995. "Handbook of Industrial Textiles", Pennsylvania: Technomic Publishing Co.Inc. .
2. Richard Horrocks, Subhash C & Anand, 2016, Handbook of Technical Textiles Applications, Wood Head Publishing Ltd.
3. Abouraddy , 2020 ,"Technical Textiles: Design for Performance" "Smart Textiles and Their Applications"
4. Roshan Paul, 2019, "Performance of Technical Textiles" Woodhead Publishing
5. Vladan Koncar ,2016 "Smart Textiles and Their Applications" Woodhead Publishing

**Web Resources**

1. <https://nptel.ac.in/courses/116/102/116102057/>
2. <https://www.classcentral.com/course/swayam-testing-of-functional-and-technical-textiles-13051>
3. [www.fibre2fashion.com](http://www.fibre2fashion.com)
4. [www.technicaltextile.net](http://www.technicaltextile.net)
5. [www.textileexchange.org](http://www.textileexchange.org)

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER V**  
**DISCIPLINE SPECIFIC ELECTIVE I: b) TEXTILE FINISHING**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU235DE2	3	1	-	-	3	4	60	25	75	100

**Pre-Requisite**

Basic knowledge about introduction of textile finishing and different types of finishes.

**Learning Objectives**

1. To identify and gain knowledge about Finishing and its types.
2. To know about the Functional finishing and its types

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	classify the textile finishing techniques	K1 & K2
2	apply the chemical finishing process.	K3
3	analyse the functional finish used in textiles.	K4
4	evaluate the effluent treated plants.	K5
5	create the eco-friendly processing	K6

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

Units	Contents	No. of Hours
I	<b>Introduction To Finishing</b> Introduction to finishing– Definition, Importance, Classification, Mechanical Finishing – Sanforising – calendaring – Brushing – Decating– Milling.	12
II	<b>Chemical Finishing</b> Chemical finishing – Wash and Wear Finishing, Anti – Crease Finish, Durable Finish, Stiff Finish, Denim Finish, Stone Wash Finish, Application of silicones in finishing processes.	12
III	<b>Functional Finishes</b> Functional Finishes–Water Proof Finishes – Water Repellent Finish – Flame Retardant Finish – Soil Release Finish, Antimicrobial Finish, Nano Technology in Textile finishing.	12
IV	<b>Eco-Friendly Processing</b> Eco-friendly processing Definition and importance. Study of conventional processing with eco-friendly processing. Enzymes –characteristics, Types. Application of enzymes in textile.	12
V	<b>Effluent Plant</b> Effluent plant– effects from various plants –various process for treating waste water.	12
<b>Total</b>		<b>60</b>

<b>Self-study</b>	Eco Friendly Finish, Water Repellent Finish, Water Proof Finish
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**Textbooks**

1. Schindler & P.J. Hauser ,2004,"Chemical Finishing of Textiles"
2. Derek Heywood, 2003,"Textile Finishing"

**Reference Books**

1. Clark, 2011, Volume 2 "Handbook of Textile and Industrial Dyeing, Applications of Dyes"
2. Shenai and Saraf.1995. Technology of Textile Finishing, **Sevak** publications.
3. Marsh ,1979,"An Introduction to Textile Finishing"
4. Nallangilli and Jayaprakasam. 2005. Textile Finishing. **S.S.M Institute of Textile Technology**
5. Prayag. 1996.Technology of finishing. Shree J. Printers, Pune

**Web Resources**

1. <https://nptl.ac.in/courses/116/102/116102054/>
2. [https://ugcmoocs.inflibnet.ac.in/ugcmoocs/view\\_ug.php/130](https://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_ug.php/130)
3. [quick-look-on-history-of-traditional-clothing-in-india/](http://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	PSO5
<b>CO1</b>	1	1	3	1	2	1	2	3	1	2	1	2
<b>CO2</b>	2	3	2	3	2	3	2	2	3	2	3	2
<b>CO3</b>	3	3	3	3	2	2	3	3	3	2	2	3
<b>CO4</b>	2	3	3	3	3	2	3	3	3	3	2	3
<b>CO5</b>	2	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>	<b>10</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>12</b>	<b>11</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>11</b>	<b>10</b>
<b>AVERAGE</b>	<b>2</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.2</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2.2</b>	<b>2</b>

3– Strong, 2- Medium, 1- Low

**SEMESTER V**  
**DISCIPLINE SPECIFIC ELECTIVE I: c) PRINTING TECHNOLOGY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU235DE3</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>4</b>	<b>60</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge about Printing Methods and Colour Theory

**Learning Objectives**

1. To impart the various terminology used in textile printing.
2. To impart various styles and methods involved in printing.

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1	recall the different textile printing techniques	<b>K1</b>
2	explain fabric preparation, print paste selection, and thickening agents	<b>K2</b>
3	demonstrate and compare different methods of printing such as block, stencil, and digital	<b>K3&amp; K4</b>
4	evaluate the effectiveness of different printing methods	<b>K5</b>
5	develop innovative solutions using digital and advanced printing technologies.	<b>K6</b>

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
1	<b>Introduction to Printing</b> Printing–Introduction to printing, differences between printing and dyeing, Preparation of fabric for printing –cotton, linen, polyester, wool and silk, preparation of printing paste, selection of thickening agents.	<b>12</b>
2	<b>Different Styles of Printing</b> Styles of Printing-Direct printing: Block printing –, Preparation of design, Blocks, print paste and printing process. Stencil printing – preparation of fabric, stencils (For one or more colour) Materials used for preparing stencils, process involved and techniques used. Resist printing: Batik printing- wax used, Equipment required, process sequence and techniques used. Tie and dye – Equipment required, process sequence and techniques used.	<b>12</b>
3	<b>Printing Machines</b> Screen printing- preparation of screen, printing paste, printing process – Table Screen printing, Flatbed screen printing machine, Rotary screen-printing machine. Discharge printing -chemicals used, process involved.	<b>12</b>
4	<b>Methods Of Printing</b> Methods of Printing, Block, Flat, Rotary Screen, engraved Roller, Transfer, Duplex printing, Pigment Printing, Batik, Khadi.	<b>12</b>
	<b>Printing Techniques</b>	

5	Advanced printing techniques -electrostatic, digital, sublimation. Other printing methods: Inkjet printing, Heat transfer printing, photo printing. Fixation and after treatment, Printing	12
<b>Total</b>		<b>60</b>

<b>Self-study</b>	Implementation of different styles of Printing
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**Text Books**

1. J.N. Chakraborty ,2010 "Fundamentals and Practices in Colouration of Textiles"
2. Leslie W. C. Miles ,2003 "Textile Printing"

**Reference Books**

1. Pellow, 2000, Dyes and dyeing, Abhishek Publications.
2. Sara J. Radolph and Anna I. 2002, Langford, Textile, Prentice Hall, New Jersey.
3. Grosicki, Watson's design and Colour-Elementary Weaves and Figured Fabrics
4. Charles Griffinco, 2004, Dyeing and chemical technology of textile fibers, Woodhead Publishing Limited, London.
5. Prayag ,2016,"Principles of Textile Printing"

**Web Resources**

1. [www.ifai.com/dtpa](http://www.ifai.com/dtpa)
2. [www.textileinstitute.org](http://www.textileinstitute.org)
3. [www.textiletoday.com.bd](http://www.textiletoday.com.bd)
4. [www.inkworldmagazine.com](http://www.inkworldmagazine.com)
5. [www.textilelearner.net](http://www.textilelearner.net)

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

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

3 – Strong, 2- Medium, 1- Low



**SEMESTER V****DISCIPLINE SPECIFIC ELECTIVE II: a) FASHION CLOTHING AND PSYCHOLOGY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU235DE4	3	1	-	-	3	4	60	25	75	100

**Pre-requisite**

Basic knowledge about fashion trends, clothing types, and their cultural significance

**Learning Objectives**

1. To identify and gain knowledge about Fashion and its components
2. To know about Fashion Business and identify the various personalities of designer

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	understand and remember about Fashion and its components	<b>K1 &amp; K2</b>
2	apply the Fashion Brands and International Business	<b>K3</b>
3	analyse the concept of Fashion Brands and International Business	<b>K4</b>
4	evaluate the Fashion Business and identify the various personalities of designer	<b>K5</b>
5	create and identify International Fashion Centres	<b>K6</b>

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

Units	Contents	No. of Hours
I	<b>Origin And Introduction Of Fashion</b> Origin of Fashion-Importance and Development of Fashion, Components of Fashion- Design, colour, Texture and Silhouette. Types of Silhouette.	12
II	<b>Fashion Designers</b> Introduction of Fashion Designers, Types of Fashion Designers-Stylist and Freelance Designer. Indian Fashion designers-Manish Malhotra, Ritu Kumar, RittuBeri, TarunTahilani, Abu Jani, JJ valaya, Manish Arora. International Fashion Designers.	12
III	<b>Fashion Business</b> Fashion Business, Scope and Importance, Role of Various Personalities-Designer Role, Manufacturer Role and Retailer Role. Fashion Related Theories and cycle	12
IV	<b>Fashion Brands</b> Fashion Brands-International Fashion Brands-Women's wear, Men's wear, Kids wear, Sportswear, Cosmetics and accessories. Fashion Brands 6 Hrs Fashion Brands-International Fashion Brands-Women's wear, Men's wear, Kids wear, Sportswear, Cosmetics and accessories.	12
V	<b>Fashion Centers</b> Fashion Centres-Introduction and its features. International Fashion Centres-France, Italy, England, Germany, New York and Canada.	12
<b>Total</b>		<b>60</b>

<b>Self-study</b>	Features and types of Fashion centers
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**Text Books**

1. Abramov I, 1985, "An analysis of personal colour analysis. The psychology of fashion", From conception to consumption. , Lexington Books, Lexington.
2. Adam H, Galinsky AD 2012, "En clothed cognition. Journal of Experimental Social Psychology".

**Reference Books**

1. Banister E, Hogg M, 2020," Negative symbolic consumption and consumers' drive for self-esteem: the case of the fashion industry". European Journal of Marketing.
2. Behling D, Williams EA, 2019," Influence of dress on perception of intelligence and expectations of scholastic achievement. Clothing", Textiles Research Journal.
3. Workman JE, Freeburg EW, 2018, " Victim dress, and perceiver variables within the context of attribution theory"
4. Higgins & Joanne B. Eicher ,1992 "Dress and Identity" – Mary Ellen Roach
5. Adam D. Galinsky & Hajo Adam ,2012 "En clothed Cognition: The Psychology of Fashion"

**Web Resources**

1. www.psychology.fashion
2. www.fitnyc.edu
3. www.theconversation.com
4. www.psychologytoday.com
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
<b>CO1</b>	2	2	2	2	2	2	3	3	2	2	2
<b>CO2</b>	2	2	2	2	2	2	3	3	2	2	2
<b>CO3</b>	2	2	2	2	2	2	3	3	2	2	2
<b>CO4</b>	3	3	2	2	2	2	3	3	3	2	2
<b>CO5</b>	2	2	2	2	2	2	3	3	2	2	2
<b>TOTAL</b>	<b>11</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>10</b>	<b>10</b>
<b>AVERAGE</b>	<b>2.2</b>	<b>2.2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2</b>	<b>2</b>

3 – Strong, 2- Medium, 1- Low

**SEMESTER V**  
**DISCIPLINE SPECIFIC ELECTIVE II: b) VISUAL MERCHANDISING**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU235DE5</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>4</b>	<b>60</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge about visual merchandising process and techniques in fashion Industry

**Learning Objectives**

1. To identify and gain knowledge about Visual Merchandising.
2. To analyse about the process in Visual Merchandising.

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1	recall the basic concepts of visual merchandising and advertising	<b>K1 &amp; K2</b>
2	demonstrate how to maintain order sheets, packing lists, and trade show participation.	<b>K3</b>
3	compare and contrast different advertising strategies and visual merchandising techniques.	<b>K4</b>
4	assess the effectiveness of advertising, sales promotion, and retail management strategies.	<b>K5</b>
5	design innovative retail displays, trade show booths, and promotional strategies.	<b>K6</b>

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<b>Visual Merchandising</b> Visual merchandising-Definition, Functions. History of Visual merchandising. Elements in Visual Merchandising, Quality processing in Visual merchandising	<b>12</b>
<b>II</b>	<b>Store Planning and Fixtures</b> Store Plan-Definition, Features. Objectives in Store Design. Fixtures-Fixtures in Store planning, Purpose of Fixture, Types of Fixtures.	<b>12</b>
<b>III</b>	<b>Boutique Circulation Plan</b> Boutique- Meaning, Feature and its Importance. Circulation plan – Meaning, Rules for the Circulation Plan, Types of Circulation Plan..	<b>12</b>
<b>IV</b>	<b>Merchandise Presentation</b> Merchandise Presentation –Meaning , Planogram – Meaning ,Purpose of Planogram, Implementation and Maintenance in Planogram. Merchandise Presentation –Meaning , Planogram – Meaning ,Purpose of Planogram, Implementation and Maintenance in Planogram.	<b>12</b>
<b>V</b>	<b>Window Display</b> Window display-Meaning, scope, features and its importance, Emerging trends in window display. Types of setting, Promotional display vs	<b>12</b>

	Institutional Display. Mannequins and its types. Lighting and its types.VM Tool kit.	
<b>Total</b>		<b>60</b>

<b>Self-study</b>	Sequins: Introduction about various sequins and their types – Application techniques– Quality requirements.
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**Text Books**

1. Krishnakumar, M, 2010, Apparel Merchandising, An integrated Approach, , Abishek Publications
2. ,Robin Mathew Apparel Merchandising, , Book Enclave Publishers, Jaipur

**Reference Books**

1. Martin M. Pegler, 2017 ,7th Edition "Visual Merchandising and Display"
2. Rosemary Varley ,2014,"Retail Product Management: Buying and Merchandising" –
3. Leslie Davis Burns & Nancy O. Bryant , 2020, 6th Edition,"The Business of Fashion: Designing, Manufacturing, and Marketing"
4. Claus Ebster & Marion Garaus ,2015"Store Design and Visual Merchandising: Creating Store Space That Encourages Buying"
5. Emily M. Orr ,2019, "Designing the Department Store: Visual Merchandising and Branding"

**Web Resources**

1. <https://www.youtube.com/watch?v=Ug2d1NUuE4A>
2. [https://www.youtube.com/watch?v=uJ2SyeFA\\_B4](https://www.youtube.com/watch?v=uJ2SyeFA_B4)
3. <https://www.youtube.com/watch?v=nJz9c8gEvF>
4. <https://www.fibre2fashion.com/industry-article/1942/visual-merchandising>
5. <https://www.fibre2fashion.com/industry-article/4135/history-of-merchandising>

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER V****DISCIPLINE SPECIFIC ELECTIVE II: c) FASHION AND APPAREL MARKETING**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU235DE6	4	-	-	-	3	4	60	25	75	100

**Pre-requisite**

Basic knowledge in Fashion and Apparel Marketing

**Learning Objectives**

1. To identify various types of fibers and understand fundamental marketing concepts.
2. To explain the structure of the fashion market and current marketing trends.

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	identify and explain the basic concepts of marketing	<b>K1 &amp; K2</b>
2	apply knowledge to explain the functions of marketing such as product development, fashion cycles, and product-mix planning.	<b>K3</b>
3	analyse advertising strategies, media, budgets, and agency	<b>K4</b>
4	evaluate promotional strategies, personal selling techniques,	<b>K5</b>
5	develop pricing strategies for fashion products by integrating internal and external influencing factors.	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Introduction To Marketing</b> Meaning and classification of marketing, Fashion marketing, fashion market – size and structure, marketing environment – micro and macro marketing environment, trends in marketing environment.	<b>12</b>
<b>II</b>	<b>Marketing Function</b> Marketing function – assembling, standardization and grading and packaging, product planning and development, importance of fashion products, nature of fashion products. The fashion industry and new product development, product-mix and range planning, fashion and related cycles	<b>12</b>
<b>III</b>	<b>Fashion Advertising</b> Fashion advertising and preparation of advertising for apparel market, advertising media used in Apparel market – advantages and limitations, advertising department – structure and functions, advertising agencies-structure and functions. Advertising budget.	<b>12</b>
<b>IV</b>	<b>Fashion Sales and Promotion</b> Fashion sales promotional programmed for apparel marketing, communication in promotion, personal selling, point of purchase, sales promotion – objectives and methods, marketing research – definition, scope and process – areas of research.	<b>12</b>
<b>V</b>	<b>Pricing Policies</b>	<b>12</b>

	Pricing policies and strategies for apparel products, Importance of price policies, Functions and factors influencing pricing – internal and external, pricing strategies for new products, methods of setting prices	
<b>Total</b>		<b>60</b>

<b>Self-study</b>	AFIS, Instron Tester, Kawabatta System
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**Textbooks**

1. Pillai and Bhagavathi, ,1987, “Marketing”, Published by S Chand and company Ltd, New Delhi,
2. Prabha Kumari & D.Anita Rachel , 2018,”Fashion Business” Abhishek Publications.

**Reference Books**

1. Chatterjee Jaico ,1982 “Marketing Management”, Juice Publishing house, Bombay.
2. Munard H H and Davidson W R, 1970, “Principles of Marketing”, Backman, Ronald Press Company, New York,
3. Philip C F and Duncon , 1989, “Marketing Principles and methods”, , Irwin Publications,
4. Mike Easey , 1995, “Fashion Marketing” Published by Black well Science Ltd, 95.
5. Isabel Barnum Wingate, 1964, Textile fabrics and their Selection, Published by Prentice Hall.

**Web Resources**

1. <http://content.inflibnet.ac.in/dataserver/eacharyadocuments/56b0853a8ae36ca7bfe81449>.
2. <https://www.referralcandy.com/blog/fashion-marketing-examples/>
3. <https://www.brandignity.com/fashion-clothing-marketing-services/>
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
<b>CO1</b>	3	2	3	3	2	2	3	3	3	2	2
<b>CO2</b>	3	3	2	3	2	2	3	3	3	3	3
<b>CO3</b>	3	2	3	3	2	2	3	3	3	2	2
<b>CO4</b>	3	2	3	3	2	2	3	3	3	3	3
<b>CO5</b>	3	2	3	3	2	2	3	3	3	3	3
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>15</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>13</b>	<b>13</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2.2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.6</b>	<b>2.6</b>

3 – Strong, 2- Medium, 1- Low

**SEMESTER V**  
**PROFESSIONAL COMPETENCY SKILL I- CAREER SKILLS**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG235PS1	1	1	-	-	2	2	30	25	75	100

**Pre-requisite:** A foundational understanding of the basic communication skills and computer literacy.

**Learning Objectives**

1. To develop effective communication and interpersonal skills to enhance workplace interactions and teamwork
2. To build job readiness skills such as resume writing, interview techniques, and professional ethics

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	outline key career skills such as communication, teamwork, and problem-solving	<b>K1</b>
2	explain the importance of professional ethics, workplace etiquette, and time management	<b>K2</b>
3	demonstrate effective resume writing, interview techniques, and job application strategies	<b>K3</b>
4	assess different workplace scenarios to determine appropriate communication and conflict resolution strategies	<b>K4</b>
5	develop a personal career plan with clear goals, skills assessment, and strategies for professional growth	<b>K5</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Linguistic Skills</b> Vocabulary, Resume Writing, Report Writing, Technical Writing, Agenda Preparation, Preparing Minutes, E-mail.	<b>6</b>
<b>II</b>	<b>Employability Skills</b> Social Etiquette, Telephone Etiquette, Interview Skills, Types of Interviews, Mock Interview, Group Discussion.	<b>6</b>
<b>III</b>	<b>Digital Capabilities</b> Digital Learning, Digital Participation, ICT Proficiency, Creative Production, Digital Identity, Digital well-being	<b>6</b>
<b>IV</b>	<b>Body Language</b> Defining Body Language, Scope and Relevance, Proxemics, Oculistics, Haptics, Kinesics, Paralanguage, Chronemics, Chromatics and Olfactics	<b>6</b>
<b>V</b>	<b>Coping Mechanisms</b>	<b>6</b>

	Goal Setting, Emotional Intelligence, Team Management, Stress Management, Time Management, Leadership Skills, Problem solving Skills, Decision Making.	
	<b>Total</b>	<b>30</b>

<b>Self-study</b>	Basic language skills and communication skills
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**Textbooks**

Virgin Nithya Veena. V & Jemi A.R. 2025. *New Age Career Skills*.

**Reference Books**

1. Herta A. Murphy and Herbert W. Hildebrandt. 1997. *Effective Business Communication*. 7th edition. McGraw- Hill.
2. Jeff Butterfield. 2020. *Soft Skills for Everyone*. Cengage India Pvt. Ltd.
3. Jayaprakash N Satpathy. 2024. *Soft Skills for Career*. Urania Publishing House.
4. S. Xavier Alphonse S. J. 2008. *Change or Be Changed*. ICRDCE. Sri Venkateswara Printers. Chennai.
5. AK. Xavier. 2025. *Employability Skills*. JKP Publications. Madurai.

**Web Resources**

1. <https://exchange.nottingham.ac.uk/content/uploads/Professional-Competencies-Handbook-Sept-2018.pdf>
2. <https://vpge.stanford.edu/professional-development/competencies-grad-grow>
3. <https://vpge.stanford.edu/professional-development/competencies-grad-grow>
4. <https://www.indeed.com/career-advice/resumes-cover-letters/core-competencies-and-skills-valued-by-employers>
5. <https://resources.hrsg.ca/blog/what-s-the-difference-between-skills-and-competencies>



**SEMESTER V  
INTERNSHIP**

Course Code	L	T	P	S	Credits	Inst. Hours	Marks
CU235IS1	-	-	-	-	2	-	100

**FRAMEWORK FOR INTERNSHIP**

- Preparatory Inputs
- Industrial Visit
- Internship
- Periodic reviews by industry supervisor and faculty guide
- Report Writing
- Viva-voce

**Note:** Industries allowed – Govt./NGO/MSME/Rural Internship/Innovation / Entrepreneurship / Private Industry.

S.No.	Components	Marks
1	Industry Contribution	50
2	Report & Viva-voce	50

**GUIDELINES FOR PREPARING INTERNSHIP REPORT**

The training report should be presented in the following format only:

- a) The report should be printed in A4 sheets.
- b) Text Format in the report:
  - Times New Roman 12 Font size, with 1.5 line spacing.
  - Margins 1.5” left and 1” all other sides of the report.
- c) Page numbers should be placed at the bottom middle position.
- d) Chapters should be numbered as I, II, III and IV.
- e) The tables and charts should be in the format of 1.1, 1.2, etc.
- f) The training report should have a minimum of 25 pages and should not exceed 50 pages.
- g) Students should submit 2 hard copies of report (department copy + student copy) duly signed by the faculty guide and the HOD.
- h) The hard copy should be in bound format with soft binding as the cover page.
- i) Students are eligible for training evaluation only if she has completed 25 days of training.

**FORMAT FOR INTERNSHIP REPORT**

The report should be bound with pages in the following sequence:

- 1) Cover page - Outer cover of the report.
- 2) Front page - The format of cover page and front page should be one and the same.
- 3) Certificate
- 4) Company Certificate
- 5) Declaration
- 6) Acknowledgement
- 7) Contents

- 8) List of Tables if any
- 9) List of Figures/Charts if any
- 10) List of Abbreviations, if any
- 11) Chapter I, II, III and IV
- 12) Appendices
- 13) Bibliography

#### **GUIDELINES FOR WRITING ACKNOWLEDGEMENT**

The summer training report should contain acknowledgements in the following order:

- Principal & Secretary, College Management
- The Head of the Department
- Faculty guide and Industry supervisor
- Management of the organization in which training was taken up.

#### **GUIDELINES FOR WRITING CHAPTERWISE REPORT**

- **Chapter I** of the report should be titled as "**INTRODUCTION**". The Introduction chapter should include Introduction, Importance, Objectives, Scope and Period of the training.
- **Chapter II** of the report should be titled as "**COMPANY PROFILE**".
- **Chapter III** of the report should be titled as "**ACTIVITIES DONE.**" The third chapter should cover the objectives of the different departments and its functioning and also the learning outcome.  
**Tables and figures in a chapter should be placed in the immediate vicinity of the reference where they are cited.**
- **Chapter IV** should be titled as "**CONCLUSION**". The Conclusion part should include the observations made by the trainee in each department and the extent of fulfillment of training objectives and also reflections.

**SEMESTER V**  
**HUMAN RIGHTS, JUSTICE AND ETHICS**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG235HR1	1	-	-	-	1	1	15	50	50	100

**Learning Objectives**

1. To identify issues, problems, and violations of human rights.
2. To promote awareness of social justice, equality and human dignity.

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1.	explain human rights principles and the role of the UN, with a focus on human rights issues in India.	<b>K1, K2</b>
2.	apply ethical principles in social, national, and professional contexts.	<b>K3</b>
3.	analyse social justice issues like untouchability, casteism, and discrimination.	<b>K4</b>
4.	examine legal frameworks for women's and child rights in India.	<b>K4</b>
5.	assess media's influence on values, digital rights, and consumerism.	<b>K5</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Social Justice:</b> Concept and need for social justice-Parameters of social justice - Issues: untouchability, casteism, and discrimination	<b>3</b>
<b>II</b>	<b>Foundations of Human Rights:</b> Concept and principles of human rights- United Nations and Human Rights- Human rights concerns in India	<b>3</b>
<b>III</b>	<b>Women's Rights and Child Rights:</b> UN and women's rights – major issues -Constitutional and legal provisions for women in India - Child rights in India – Major Issues -legal framework and enforcement	<b>3</b>
<b>IV</b>	<b>Values and social media:</b> Media Power- Socio, cultural and political consequences of mass mediated culture - New media prospects and challenges - Role of media in value building - Digital Rights and Privacy- Consumerist culture	<b>3</b>
<b>V</b>	<b>Ethics:</b> Meaning and Importance- Social ethics: Tolerance, equity, justice for all -Nationalism: love for nation, pride for nature- Professional ethics: Dedication to work and duty.	<b>3</b>
	<b>Total</b>	<b>15</b>

<b>Self-study</b>	Mass Media: Effects and Influence on youth and children
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**Reference Books**

1. Baxi, Upendra. *The Future of Human Rights*. Oxford University Press, 2008.
2. Donnelly, Jack. *Universal Human Rights in Theory and Practice*. Cornell University Press, 2013.
3. Agnes, Flavia. *Law and Gender Inequality: The Politics of Women's Rights in India*. Oxford University Press, 2001.
4. *State of the World's Children 2021*. UNICEF, 2021.
5. McLuhan, Marshall. *Understanding Media: The Extensions of Man*. MIT Press, 1994.

**Web Recourses**

1. [http://www.oxfordreference.com/views/BOOK\\_SEARCH.html?book=t286](http://www.oxfordreference.com/views/BOOK_SEARCH.html?book=t286)
2. <http://globetrotter.berkeley.edu/humanrights/bibliographies/>
3. <https://libguides.princeton.edu/history/humanrights>

**SEMESTER VI**  
**CORE COURSE VII: KNITTING TECHNOLOGY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU236CC1	6	-	-	-	5	6	90	25	90	100

**Pre-requisite**

Basic knowledge about knitting process

**Learning Objectives**

1. To impart knowledge on the warp and weft knitting techniques
2. To know their cent trends and technologies adopted in the industry

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	understand the basics knitting process and the functions of a knitting machine	<b>K1&amp; K2</b>
2	apply the weft knitting process and machineries used	<b>K3</b>
3	analyse the warp knitting process and machineries used	<b>K4</b>
4	evaluate and appraise their cent technology in the knitting industry	<b>K5</b>
5	create the significant role played by the knitting industry locally and nationally	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Knitting Overview</b> Knitting – Definition, classification and history, characteristics of knitted goods. General terms and principles of knitting technology, machine knitting, parts of machine, knitted loop structure, stitch density	<b>18</b>
<b>II</b>	<b>Principles of Weft Knitting Technology</b> Weft knitting–classification-circular rib knitting machine, purl, interlock, jacquard-single Jersey machine-basic knitting elements-types and functions–knitting cycle, CAM system-3- way technique to develop design-knit, tuck, miss-effect of stitches on fabric properties.	<b>18</b>
<b>III</b>	<b>Principles of Warp Knitting Technology</b> Warp knitting - lapping variations-tricot, raschel, simplex and Milanese - kitten raschel - singlebar, 2 bar, multi bar machines. types of threading, production of nets, curtains, heavy fabrics, elasticized fabrics.	<b>18</b>
<b>IV</b>	<b>Seamless Knitting and Knitting Care</b> Seamless Knitting–Applications, advantages, and limitations. Care and maintenance of knitted material - washing, drying, ironing, storing. Common defects that occur in knitted fabric production.	<b>18</b>
<b>V</b>	<b>Knitting Industry and Market</b> Knitting Industry in India–growth and development. Significance of knit wear industry in Tirupur. Knitwear market–Present and future trends.	<b>18</b>

	Dyeing of Knit Fabric	
<b>Total</b>		<b>90</b>

<b>Self-study</b>	Warp Knitting, Different types of structures in warp knitting
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**Textbooks**

1. Anbumani, 2006, New Age International, Chennai, Knitting Manufacture Technology
2. S.S.M.I.T Co-operative Society.2005, Knitting and Apparel Technology,

**Reference Books**

1. David J. Spencer ,2001,3rd Edition, "Knitting Technology: A Comprehensive Handbook and Practical Guide"
2. David J. Spencer ,2001 "Fundamentals of Knitting"
3. June Hemmons Hiatt ,2012, "Principles of Knitting"
4. M. Clark ,2011, Volume -4 "Handbook of Textile and Industrial Dyeing: Applications of Dyes"
5. Subhankar Maity ,2019, "Circular Knitting: Apparel Applications"

**Web Resources**

1. [www.textilelearner.net](http://www.textilelearner.net)
2. [www.apparelresources.com](http://www.apparelresources.com)
3. [www.knitpurlhunter.com](http://www.knitpurlhunter.com)
4. [www.textileworld.com](http://www.textileworld.com)
5. [www.theknittingandstitchingshow.com](http://www.theknittingandstitchingshow.com)

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI**  
**CORE COURSE VIII: COMPUTER APPLICATION IN FASHION INDUSTRY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236CC2</b>	<b>5</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>5</b>	<b>6</b>	<b>90</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic Knowledge on computer fundamentals

**Learning Objectives**

1. To impart knowledge on the significant role played by the computers in the garment industry
2. To create an awareness on the latest technologies available in the various sectors of the garment industry

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1	understand the application of CAD and CAM in the areas of textile and garment designing	<b>K1</b>
2	discover the use of computers in the field of body measurements, patternmaking and Grading	<b>K2</b>
3	articulate the specifications and functions of a computer and its peripherals	<b>K3</b>
4	analyse and evaluate the inevitable role played by computers in various sections of a textile and garment industry	<b>K4 &amp; K5</b>
5	create the advantages of computer technology in the process sequences and thereby increase production	<b>K6</b>

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<b>Computers in Fashion Industry</b> Role of computers in fashion industry–Information flow–CAD, CAM, CIM, CAA, PDC– Definition and functions. Computers in production planning and production scheduling computerized colour matching system.	<b>18</b>
<b>II</b>	<b>Computers in Creating Fabric and Garment Designs</b> CAD in creating designs–Advantages. Computerized weaving, knitting and printing, creating Computerized embroidery machines, Garment designing with CAD– 2D and 3Dforms.	<b>18</b>
<b>III</b>	<b>Body Measurements, Pattern Making and Grading</b> 3D Body scanning systems, Made to measure systems, CAD in pattern making and grading– system description–information flow–Process involved in pattern making, process involved in pattern grading.	<b>18</b>
<b>IV</b>	<b>Computers in Manufacturing Process</b> Computer application in fabric defect checking, laying/spreading, cutting marker planning, Labeling– Parts and functions. Computerized sewing machines.	<b>18</b>
<b>V</b>	<b>Digital Design and Ai in Fashion</b>	<b>18</b>

	Introduction to Digital Design in Fashion-Fundamentals of AI in Fashion-AI-Assisted Design Tools-Sustainability and Ethical Considerations-Collaboration Between Designers and AI-Future Trends in Digital Design and AI.	
<b>Total</b>		<b>90</b>

<b>Self-study</b>	3D Weave, Computerized Pattern Making, Tuka CAD
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**Textbooks**

1. Amsamani ,Shanga Verlag, Dr R Sheela Johnand , 2013, “Computers in the Garment Industry , Coimbatore
2. Pearson, 2007, 4<sup>th</sup> Edition,” Fashion: From Concept to Consumer”, Gini Stephens Frings, Prentice Hall.

**Reference Books**

1. Stott ,2012, “Patternmaking with CAD for Apparel Manufacturing”
2. Eberle Hannelore, 2008, “Clothing Technology: from Fibre to Fashion Hardcover” Verlag Europa Lehrmittel Noun.
3. Sinha, 1992, “Computer Fundamentals”, BPB Publications, Delhi,
4. Harold Carr ad Barbara Latham, 1994, “The Technology of Clothing Manufacture”, Blackwell Ltd.
5. Gerry Cooklin,1990, “Pattern Grading for Women”s Cloths the Technology of sizing”, Blackwell Science Ltd.

**Web Resources**

1. <https://inifdahmedabad.com/blog/importance-of-cad-in-fashion-industry/>
2. <https://clothingindustry.blogspot.com/2018/02/application-cad-weaving.html> 3.
3. <http://textilescommittee.nic.in/writereaddata/files/publication/gar4.pdf>
4. <https://study.com/academy/lesson/how-is-cad-cam-used-in-textiles.html>
5. <https://clothingindustry.blogspot.com/2018/02/importance-cad-textile-designing.html>

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI**  
**CORE LAB COURSE VI: FASHION PORTFOLIO**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU236CP1	-	-	6	-	4	6	90	25	75	100

**Pre-requisite**

Basic knowledge on garment designing

**Learning Objectives**

1. To create garment collection based on an inspiration/ theme
2. To search and find out exclusive fabrics and accessories for the garment collection

**Course Outcomes**

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

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

Units	Contents	No. of Hours
<b>I</b>	Stages involved in Portfolio Preparation Collection of Portfolio research, forecasting trendy 1. Preparation of customer profile 2. Preparation of theme board and mood board 3. Preparation of story board	<b>18</b>
<b>II</b>	1. Preparation of colour board and fabric board 2. Preparation of flat sketches/ silhouette development 3. Preparation of accessory board	<b>18</b>
<b>III</b>	1. Preparation of photographic board 2. Preparation of pattern according to the design selected garment 3. Constructing the garment to the customer profile	<b>18</b>
<b>IV</b>	Preparation of Portfolio for any one garment 1. Kids Wear 2. Women's Wear 3. Men's Wear	<b>18</b>
<b>V</b>	Portfolio presentation: Soft copy, Hard copy, Modelling with Photoshoot	<b>18</b>
<b>Total</b>		<b>90</b>



<b>Self-study</b>	Port folio Preparation for Children's Wear
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**Textbooks**

1. Bina Abbing, 2019, 7th Edition, "Fashion Sketchbook"
2. Bina Abbing, 2019, 7th Edition, "Digital Fashion Illustration with Photoshop and Illustrator"

**Reference Books**

1. Barrett, Joanne. 2012, Designing Your Fashion Portfolio, New Delhi: Bloomsbury Publishing India Private Limited. Print.
2. Linda Tain 2018, 4th Edition, "Portfolio Presentation for Fashion Designers"
3. Anna Kiper, 2014 "Fashion Portfolio: Design and Presentation"
4. Elinor Renfrew & Colin Renfrew, 2013, "Developing a Fashion Collection"
5. Gail Baugh, 2011, "The Fashion Designer's Textile Directory"

**Web Resources**

1. <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>
2. <https://fashionandillustration.com/en/how-to-make-a-fashion-collection/>
3. [https://www.apparesearch.com/fashion/designer/name/a/anna\\_sui/spring\\_fashions\\_anna\\_sui\\_fashion\\_designer\\_guide.htm](https://www.apparesearch.com/fashion/designer/name/a/anna_sui/spring_fashions_anna_sui_fashion_designer_guide.htm)
4. [www.fashionportfolioacademy.com](http://www.fashionportfolioacademy.com)
5. [https://www2.cs.arizona.edu/patterns/weaving/books/pea\\_fa\\_1.pdf](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	PO1
<b>CO1</b>	3	2	2	2	2	2	3	3	2	2	2	3
<b>CO2</b>	3	2	2	2	2	2	3	3	2	2	2	3
<b>CO3</b>	3	2	2	2	2	2	3	3	2	2	2	3
<b>CO4</b>	3	3	2	2	2	2	3	3	3	2	2	3
<b>CO5</b>	3	2	2	2	2	2	3	3	2	2	2	3
<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>15</b>
<b>AVERAGE</b>	<b>3</b>	<b>2.2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>2</b>	<b>2</b>	<b>3</b>

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI****DISCIPLINE SPECIFIC ELECTIVE III: a) HOME TEXTILES AND FURNISHING**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236DE1</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge to choose the choice of fabrics for Home Textiles

**Learning Objectives**

1. To impart knowledge on the various home textile products
2. To gain in sights on the bedlinens, kitchen linens, bathroom linens

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1	classify the home textile products	<b>K1</b>
2	understand the types of floor and wall coverings	<b>K2</b>
3	apply the types and functions of kitchen linen	<b>K3</b>
4	analyze the types of floor coverings and its maintenance	<b>K4</b>
5	evaluate and create the types and uses of bed, kitchen and bathroom linens	<b>K5 &amp; K6</b>

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<b>Different Types of Furnishing Materials</b> Definition – Different types of furnishing materials – Woven and Non-woven, Factors affecting selection of home furnishes. Recent Trends in Home Furnishing	<b>15</b>
<b>II</b>	<b>Floor and Wall Covering</b> Floor coverings – Hard floor coverings, Resilient floor coverings. Soft floor coverings – Rugs and carpets, Use and care. Wall covering – Use and care.	<b>15</b>
<b>III</b>	<b>Door and Window Treatment</b> Doors and Windows – Definition, Curtains and Draperies – Choice of fabrics, calculating the amount of material needed, hints on making curtains hang well, methods of finishing draperies at the top – Use of drapery rods, hooks, tape rings and pins.	<b>15</b>
<b>IV</b>	<b>Soft Furnishings for Living and Bed Linen</b> Introduction to living and bedroom linens, types- sofa, softcovers, wall hangings, cushion, cushion covers, upholsteries, bolster and bolster covers, bedsheets, covers, blankets, blanket covers, comfort and comfort covers, bed spreads, mattress and mattress covers, pillow and pillow covers, pads, uses and care.	<b>15</b>
<b>V</b>	<b>Soft Furnishings for Kitchen and Dining</b> Soft furnishings for kitchen and dining, types of kitchen linens– kitchen towel, aprons, dish cloth, fridge, grinder and mixie covers, mittens, fridge holders– their uses and care. Types of dining tablemat, dish/potholders,	<b>15</b>

	cutlery holder, fruit baskets, hand towels- uses and care. Bathroom linens– types, uses and care.	
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Fridge Covers, Invertor Covers, Air Cooler Cover.
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**Textbooks**

1. Cheryl Mendelson, 2005, “Home Comforts – The Arts and Science of Keeping Home”, Scriber, New York,
2. Hamlyn Octopus , 2001,”Cushions and Pillows – Professional Skills – Made Easy”, Octopus Publishing Group, New York,

**Reference Books**

1. Artin Everyday Life, Harriet Goldstein and Vetta Goldstien,2004,” The Macmillian Company”,
2. Subrata Das , 2020, “Performance of Home Textiles”, Woodhead Publishing India Pvt. Limited,
3. V.Ramesh Babu and S. Sundaresan ,2018 “Home Furnishing”, Wood head Publishing India Pvt. Limited,
4. Jay Diamond, Ellen Diamond, 2006, “Fashion Apparel Accessories and Home Furnishings” Paperback.
5. . Premavathy Seetharaman, Praveen Pannu, 2009, “Interior Design and Decoration” CBS publishers.

**Web Resources**

1. <https://www.homestratosphere.com/types-curtains/>
2. <https://textilecourse.blogspot.com/2018/06/types-classification-home-textiles.html>
3. <https://www.fibre2fashion.com/industry-article/1769/home-textiles-a-review>
4. <http://www.india-crafts.com/textile/home-textile.html>
5. [www.hometextilestoday.com](http://www.hometextilestoday.com)

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI**  
**DISCIPLINE SPECIFIC ELECTIVE III: b) APPAREL COSTING**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236DE2</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge about to calculate costs, margins, and financial aspects of apparel production

**Learning Objectives**

1. This course facilitates an understanding Principles of costing and Elements of costing and orients the learners in the field of clothing industry.
2. The learners are expected to know the Cost estimation, Cost of product development in garment industry.

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	classify the elements of costing.	<b>K1 &amp; K2</b>
2	apply the Principles of Costing.	<b>K3</b>
3	analyse the Cost Estimation of yarn and fabric.	<b>K4</b>
4	evaluate the cost of Product Development.	<b>K5</b>
5	create the cost price for different garments.	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Principles of Costing</b> Principles of costing – requirement of good costing system – cost unit types of cost – Fixed cost – Variable cost – Semi variable cost – Conversion cost – Replacement cost – Differential cost – Imputed cost – Sunk cost – Research cost – Development cost – Policy cost – Shutdown cost.	<b>15</b>
<b>II</b>	<b>Elements of Cost</b> Elements of cost – Direct material cost – Direct expenses – Direct wages – Indirect material cost – Indirect expenses – Indirect labour overheads – Production overhead – Administrative overhead – selling overhead – Distribution overhead – Work cost – Cost of production – Total cost.	<b>15</b>
<b>III</b>	<b>Cost Estimation</b> Cost estimation of yarn, fabric and components, dyeing, printing and finishing. Cost estimation for cutting, stitching, checking, packing, forwarding, shipping and insurance.	<b>15</b>
<b>IV</b>	<b>Cost of Product Development</b> Cost of product development. Analysis of Design cost – profit design – product profit ability. Function of cost control – Apparel manufacturing cost categories – sales cost control – purchasing cost control – production cost control.	<b>15</b>
<b>V</b>	<b>Costing of Various Garments</b> Costing of various garments – Children's wear, Women's wear, Men's wear.	<b>15</b>

<b>Total</b>	<b>75</b>
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<b>Self-study</b>	Cost Estimation of Kids Wear, Different types of Cost
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**Textbooks**

1. Rajkishore Nayak & Rajiv Padhye ,2015 "Garment Manufacturing: Processes, Practices, and Technology"
2. Ruth E. Glock & Grace I. Kunz, 2004 ,4th Edition, "Apparel Manufacturing: Sewn Product Analysis".

**Reference Books**

1. Solinger Jacob, 1985, "Apparel Manufacturing Analysis", bobbin Blenheim,
2. Harold Carr/John,1992 "Fashion Design and product Development", wiley Blackwell publisher,
3. Gerry Cooklin, 2011"Garment Technology for fashion Designer", Blackwell publisher,
4. Prasanna Mohanraj ,2016 "Apparel Costing"
5. Chuter , 2004"Introduction to Apparel Production Management"

**Web Resources**

1. www.apparelresources.com
2. www.textilelearner.net
3. www.thefashionlaw.com
4. www.manufacturingtoday.com
5. <http://www.nptel.iitm.ac.in/video.php?subjectId=106102067>

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI****DISCIPLINE SPECIFIC ELECTIVE III: c) GARMENT QUALITY AND COST CONTROL**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236DE3</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge Basic knowledge on garment and quality

**Learning Objectives**

1. To learn the concepts of garment quality control
2. To study the different quality management systems.

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1	define and establish quality standard	<b>K1</b>
2	describe functions of quality control.	<b>K2</b>
3	apply and analyse on garment cost and cost control.	<b>K3 &amp; K4</b>
4	evaluate the different quality management systems.	<b>K5</b>
5	create the garment in quality based on the parameters.	<b>K6</b>

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

Units	Contents	No. of Hours
I	<b>Quality Control and its Standards</b> Definition and Scope of Quality control – establishing merchandising standards- establishing raw material quality control specifications – quality control of raw material. Establishing Processing quality specification – Quality control inspection procedures for processing- Quality control of finished garments – Quality control for packaging, warehousing and shipping – Statistical Quality control- Sampling plans – Industry-wide quality standards. .	<b>15</b>
II	<b>Functions of Production Control</b> Function of production control–Production analysis–Quality specifications–quantitative specifications–Basic production systems– whole garment, departmental whole garment, sub assembly systems and progressive bundle systems, Principles for choosing a production system– Evaluating production system.	<b>15</b>
III	<b>Functions of Cost Control</b> Functions of cost control, types of costs and expenses – Apparel manufacturing cost categories – sales cost control, purchasing cost control, production cost control, administration cost control –cost ration policies – the manufacturing budget –cash flow controls – standard cost sheet, break-even– chart	<b>15</b>
IV	<b>Quality Management</b> Quality – Evolution of Quality management – Quality function and quality planning –Basic concepts of Total Quality Management (TQM) –	<b>15</b>

	Principles of TQM – Quality Trilogy –Four pillars of TQM –PDC A cycle & PDS A cycle–Kaizan concept–5SPhilosophy–Quality circles.	
V	<b>Environmental Management System</b> Environmental Management System (EMS)–Meaning & Definition– Elements of EMS– Benefits of EMS–Environmental Policies– Implementation of ISO 14000 study on other management system:SA8000, OHSAS18000 and WRAP.	15
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Benefits of EMS, ISO14000
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**Textbooks**

1. Solinger, Jacob, 1961, “Apparel Manufacturing Analysis”, Textiles books, New York
2. PradipV Mehta, Sathish K Bhardwaj ,1998 “Managing Quality in the Apparel Industry, ,New Age International,

**Reference Books**

1. Solinger, Jacob, 1988, Apparel manufacturing handbook, analysis Principles and Practice, Columbiamedia acorp,
2. Juran 1988 Quality Control Handbook, ,publicationsMcGraw-HillEducation,1988
3. ,Basker S, Anuradha , 2017, “Total Quality Management”, Publications, Kumbakonam,
4. Prasanna Mohanraj ,2016 “Apparel Costing”
5. Chuter , 2004"Introduction to Apparel Production Management"

**Web Resources**

1. [https://textilelearner.blogspot.com/2011/08/quality-control-system-in-garments\\_2589.html](https://textilelearner.blogspot.com/2011/08/quality-control-system-in-garments_2589.html)
2. <https://www.fibre2fashion.com/industry-article/3055/quality-systems-for-garment>
3. <https://onlinegarmentsacademy.blogspot.com/2019/07/quality-control-of-apparelindustry.html>
4. <https://www.sciencedirect.com/science/article/pii/B9781782422327000163>
5. <https://www.textileschool.com/488/quality-control-in-garment-manufacturing/> **MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES**

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI**  
**DISCIPLINE SPECIFIC ELECTIVE IV: a) BOUTIQUE MANAGEMENT**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236DE4</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge about fashion marketing, branding strategies, and promotional techniques

**Learning Objectives**

1. To impart knowledge of fashion design and the management of a small business
2. To impart skills in apparel production in an Industrial set-up.

**Course Outcomes**

On the successful completion of the course, students will be able to:		
1.	understand the basic steps in starting a boutique, including location selection, financial planning, and cost estimation	<b>K1 &amp; K2</b>
2.	apply knowledge of business registration, taxation, and inventory planning	<b>K3</b>
3.	analyse supplier relationships, negotiation techniques, and consumer attraction strategies	<b>K4</b>
4.	evaluate the impact of digital tools, billing software, online marketing, and e-commerce in boutique operations	<b>K5</b>
5.	develop strategic marketing and branding techniques to enhance sales and manage business risks	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>How to Start a Boutique</b> How to start a boutique, creating a business plan, finding a ideal location, financial planning - working capital sales, Cost of goods expenses, accounting, advertising, insurance, markdowns, rent, repair and maintenance, salaries, sales, taxes, and licenses.	<b>15</b>
<b>II</b>	<b>Procedures to start a boutique business</b> Setting up business, loan or equity capital for boutique business, tax registration, startup check list, obtain DIN Director Identification Number PAN, TAN Tax Account Number, GST registration, register for professional tax, register for EPF. Government norms to run a boutique, Interior designing, sourcing of raw materials and Inventory planning.	<b>15</b>
<b>III</b>	<b>Buyer supplier relationships</b> Buyer supplier relationships-technical support, expertise, resource support service level, risk reduction consumer relationship, Tips and Tricks to attract the customer, sales strategy- window display, subtle up-selling, networking and sales forecasting. Characteristics of B2B and B2C Marketing strategies.	<b>15</b>
<b>IV</b>	<b>Essential technology to run a boutique</b>	<b>15</b>



	Essential Technology support to run a boutique, Warehouse, Billing software data maintenance. Recent technologies in Offline and Online boutique business. Creating of web pages, websites, online advertising, print and media advertising.	
<b>V</b>	<b>Skills related to marketing and promotion and R&amp;D</b> Quality control, Research and development and analysis, Marketing and Promotion and maintenance of boutique business. SWOT analysis, internal risk management, external risk and management.	<b>15</b>
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Cost Estimation of Kids Wear, Different types of Cost
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**Textbooks**

1. Aarti Rani & Pooja Chatley ,2020"Boutique Management: A Strategic Approach".
2. Ellen Diamond ,2011,"Fashion Retailing: A Multi-Channel Approach"

**Reference Books**

1. Briana Stewart , 2014, "Opening a boutique store: how to start your own boutique", Bull City Publishing,
2. Debbra Mikaelsen,2011, Catherine Goulet "Fabjob guide to become a boutique owner, ", Fabjob incorporated,.
3. Jennifer Lynne Mathews, 2009, "Fashion unraveled: How to start ,run and manage an independent Fashion Label",
4. Barry Berman & Joel R. Evans 2017, 12th Edition "Retail Management: A Strategic Approach".
5. Martin M. Pegler 7th Edition, 2017 "Visual Merchandising and Display"

**Web Resources**

1. [www.apparelresources.com](http://www.apparelresources.com)
2. [www.entrepreneur.com](http://www.entrepreneur.com)
3. [www.retaildive.com](http://www.retaildive.com)
4. [www.theboutiquehub.com](http://www.theboutiquehub.com)
5. [www.manufacturingtoday.com](http://www.manufacturingtoday.com)

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI****DISCIPLINE SPECIFIC ELECTIVE III: b) ENTREPRENEURIAL DEVELOPMENT**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236DE4</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge about to understanding the business structures, management principles, and financial basics.

**Learning Objectives**

1. To develop and strengthen entrepreneurial quality and motivation in students.
2. To impart entrepreneurial skills and understandings to run a business effectively and efficiently.

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1.	define entrepreneurship in Indian market	<b>K1 &amp; K2</b>
2.	apply the start-up process used in India.	<b>K3</b>
3.	analyse the Institutional service to Entrepreneur	<b>K4</b>
4.	evaluate the Incentives and subsidies given to the entrepreneur.	<b>K5</b>
5.	create the Institutional finance to Entrepreneur	<b>K6</b>

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<b>Entrepreneurship</b> Concept of Entrepreneurship: Definition Nature and Characteristics of Entrepreneurship – Functions and types of Entrepreneurship phases of EDP. Development of women Entrepreneur and rural Entrepreneur – including self-employment of women council scheme.	<b>15</b>
<b>II</b>	<b>The Start- Up Process</b> The Start- up process, Project Identification – Selection of the product – Project formulation evaluation – Feasibility Analysis, Project Report.	<b>15</b>
<b>III</b>	<b>Institutional Service To Entrepreneur</b> Institutional service to Entrepreneur – DIC, SIDO, SIC, SISI, SSIC, SIDCO, ITCOT, IIC, KUIC and commercial Bank.	<b>15</b>
<b>IV</b>	<b>Institutional Finance To Entrepreneur</b> Institutional finance to Entrepreneur – IFCI, SFC, IDBI, ICICI, TIIC, SIDCS, LIC AND GIC, UIT, SIPCOT – SIDBI and commercial Bank venture capitals.	<b>15</b>
<b>V</b>	<b>Incentives and Subsidies</b> Incentives and subsidies – Subsidized Services – Subsidy for market. Transport – seed capital assistance – Taxation benefit to SSI – role of Entrepreneur in export promotion and import substitution.	<b>15</b>
<b>Total</b>		<b>75</b>

<b>Self-study</b>	Start-up procedure for Garment Unit, Processing Unit, Knitting Unit
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**Textbooks**

1. C.B.Gupta and N.P.Srinivasan, 2015 “Entrepreneurial Development”, Paperback publisher,
2. Renu Arora and S.KI.Sood, 2013 “Fundamentals of Entrepreneurship and small Business”, Paperback publisher, 2013.

**Reference Books**

1. S.S. Khanka, 2006 “Entrepreneurial Development”, Chand Publishing,
2. S.G.Bhanushali, 1987 “Entrepreneurial Development”, Himalaya Pub. House,
3. Khanka S.S, 2007 “Entrepreneurial Development Paperback”
4. Gerry Cooklin, 2011 “Garment Technology for fashion Designer”, Blackwell publisher,
5. A. J. Chuter, 2004 “Introduction to Apparel Production Management”

**Web Resources**

1. [www.entrepreneur.com](http://www.entrepreneur.com)
2. <https://ocw.mit.edu>
3. [www.investopedia.com](http://www.investopedia.com)
4. [www.ycombinator.com/library](http://www.ycombinator.com/library)
5. [www.manufacturingtoday.com](http://www.manufacturingtoday.com)

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI**  
**DISCIPLINE SPECIFIC ELECTIVE IV: c) NON-WOVEN TEXTILES**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236DE6</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>5</b>	<b>75</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite**

Basic knowledge about to understanding the business structures, management principles, and financial basics

**Learning Objectives**

1. To Impart knowledge on Bonding process.
2. To Impart knowledge on fiber preparation for non-woven production

**Course Outcomes**

<b>On the successful completion of the course, students will be able to:</b>		
1.	define Nonwovens fibre used in textile industry.	<b>K1</b>
2.	summarize the fibre Preparation Processes of raw materials.	<b>K2</b>
3.	apply the different types of web bonding process.	<b>K3</b>
4.	analyse and Evaluate t h e structure of Non-woven fibre	<b>K4 &amp; K5</b>
5.	create the sequence of polymer technologies.	<b>K6</b>

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

<b>Units</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<b>Overview Of Nonwovens Fibre</b> Overview of Nonwovens Fibre - Introduction and Definitions, Elements of nonwovens, Fibre geometry, Structure of fibrous webs. Basic nonwoven processes and their sequences.	<b>15</b>
<b>II</b>	<b>Fibre Preparation Processes Of Raw Materials</b> Uses of natural fibre for Non-Woven fabrics, Fibre Preparation Processes of raw materials- Fibre preparation mixing and Carding process, Parallel-lay process, Cross lay process, Perpendicular-lay process, Air-lay process and Wet-lay process.	<b>15</b>
<b>III</b>	<b>Web Bonding</b> Web Bonding Processes Mechanical bonding processes- Needle-punch process and Hydro entanglement process. Thermal bonding processes- Principles of thermal bonding, Calendar bonding process, Through-air bonding process, Infra-red bonding process, Ultrasonic bonding process. Chemical bonding processes- Chemical binders, Methods of binder applications, Saturation bonding process, Foam bonding process, Spray bonding process, Print bonding process, Methods of drying.	<b>15</b>
<b>IV</b>	<b>Structure and Application</b> Web geometry, fibre orientation curl factor, web density. Identification, properties and application of different non-woven.	<b>15</b>
<b>V</b>	<b>Evaluation of Non-Woven Fabrics</b>	

Porosity, tear strength, air permeability, tensile strength, 3-point bending test, fatigue test, CBR loading, cone puncture test, abrasion test, peeling test, pilling test, study of DIN standards.	<b>15</b>
<b>Total</b>	<b>75</b>

<b>Self-study</b>	Different types and structure of Web bonding , Chemical Bonding
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**Textbooks**

1. Wilhelm Albrecht, Hilmar Fuchs, Walter Kittelmann, 2003,"Nonwoven Fabrics: Raw Materials, Manufacture, Applications, Characteristics, Testing and Future Directions"
2. Tushar Ghosh & Subhash K. Batra 2019 "Nonwovens: Process, Structure, Performance, and Applications"

**Reference Books**

1. Russell (Ed.),2007, "Handbook of Nonwovens, Woodhead Publishing, CRC Press, Washington DC,
2. Goswami ,2016,"Handbook of Nonwoven Fabric Processes"
3. Casper, 1975, "Nonwoven Textiles", Noyes Data Corp. (Park Ridge, N.J),
4. Mcdonald,1971, "Nonwoven Fabric Technology, Park Ridge, NJ: Noyes Data, A joint venture by IISc and IITs, funded."
5. Behnam Pourdeyhimi ,2018, "Fundamentals of Nonwovens Manufacturing and Processing"

**Web Resources**

1. [www.nonwovens-industry.com](http://www.nonwovens-industry.com)
2. <https://www.textiletoday.com.bd/types-non-woven-fabrics-manufacturing-processes-applications>
3. [www.nonwovenfabrics.com](http://www.nonwovenfabrics.com)
4. <https://recovo.co/blog/what-is-non-woven-fabric/>
5. <https://www.textileschool.com/352/non-woven-fabrics/>

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI****PROFESSIONAL COMPETENCY SKILL II: BUSINESS START UP**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
<b>DU236PS1</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>30</b>	<b>25</b>	<b>75</b>	<b>100</b>

**Pre-requisite:**

Basic knowledge about Business

**Learning Objectives:**

1. To impart skill in starting a business.
2. To gain knowledge about business planning and evaluation.

**Course Outcomes**

On the successful completion of the course student will be able to:		
1.	define key terminologies related to business startups	<b>K1 &amp; K2</b>
2	apply methods to generate and screen business ideas from multiple sources	<b>K3</b>
3	analyze market segments and gaps using business model canvas and SWOT analysis	<b>K4</b>
4	assess startup funding options and MSME/government schemes for strategic financial planning	<b>K5</b>
5	develop comprehensive IP strategies for startups including patents, trademarks, brands, and copyrights	<b>K6</b>

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

Units	Contents	No. of Hours
<b>I</b>	<b>Business startup – An Introduction</b> Business startup - terms and definition, Introduction to pain points, identification of pain points, empathize with Customer Problems, market survey, develop prototype, gather prototype sample feedback.	<b>6</b>
<b>II</b>	<b>Business Ideas and Opportunities</b> Gather sources of ideas, identify business opportunities (performance of existing industries, export and import data, availability of raw material, government policies, trade fairs, abroad trends), evaluation of business opportunities, BCG Matrix, Brainstorm worksheet.	<b>6</b>
<b>III</b>	<b>Business Plan</b> Prepare business plan, perform business model canva, identify market gap and potential customers, understand target segment, evaluate target customer, value proposition canva, SWOT analysis, identify peer competitors, competitor analysis.	<b>6</b>
<b>IV</b>	<b>Financial Status and Analysis</b> Introduction to financial statements, financial analysis, value proposition financial feasibility, revenue stream, cost structure, MSME schemes, government Schemes and subsidy for startups, difference between angel investor and venture capitalist.	<b>15</b>

<b>V</b>	<b>Intellectual Property Rights</b> Intellectual property rights in fashion business, Patents: meaning and law regarding Patent, what can be patented, conditions of patent, rights of patentees, Trademark: meaning and definition Brand: definitions, distinction between Trademark and Brand Copyrights: meaning and concept, features of Copyright.	<b>6</b>
	<b>Total</b>	<b>30</b>

<b>Self-study</b>	Novelty yarns, yarn numbering, Terminologies used in knitting, uses of nonwovens.
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**Textbooks:**

1. Tom Harris ,2018, “A Practical Guide to Starting and Running a New Business”, Tom Harris, Springer.
2. RodKing,2017, “Business Model Canvas: A Good Tool with Bad Instructions?”

**Reference Books**

1. Aaditya Mattoo, Nadia Rocha, Michele Ruta, 2020.” Handbook of Deep Trade Agreements, “
2. “Entrepreneurship and Local Economic Development a Comparative Perspective on Entrepreneurs”, Universities and Governments.
3. Corbman BP, 1985, Textiles– “Fibre to Fabric”, International Students Edition, Mc. Graw Hill book Co, Singapore,
4. Corbman 2010, “Entrepreneurship and Economic Development,”
5. Alejandro Cremades · 2021, “Start Your Own Business, Sixth Edition by The Staff of Entrepreneur Media Selling”.

**Web Resources**

1. <http://textilefashionstudy.com>
2. [https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism\\_643](https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643)
3. <https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain>
4. <http://textilefashionstudy.com/category/fabric-manufacturing-technology>
5. <http://www.warporweft.com/types-of-looms>

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

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

3 – Strong, 2- Medium, 1- Low

**SEMESTER VI**  
**GENDER EQUITY AND INCLUSIVITY**

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
UG236GE1	1	-	-	-	1	1	15	50	50	100

**Learning Objectives**

- 1.To understand the challenges faced by women in the society.
- 2.To analyze the legitimate rights and laws that aid women to march towards emancipation and empowerment.

**Course Outcomes**

On the successful completion of the course, student will be able to:			
1	understand life struggles of women and to promote equality		<b>K1</b>
2	identify the socio-cultural and religious practices that subjugate women		<b>K2</b>
3	probe deep into the root cause of marginalization of women and to promote an inclusive nature.		<b>K3</b>
4	investigate the challenges faced by women in practical life		<b>K4</b>
5	evaluate exploitation of women as commercial commodities in advertisements and media		<b>K5</b>

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

Unit	Contents	No. of Hours
<b>I</b>	<b>Life Struggle of a Woman:</b> Challenges faced by girl students, education and religion, woman and society, working environment.	<b>3</b>
<b>II</b>	<b>Cultural Traits:</b> Myths and religious texts, opposition and rebuttal, contemporary literature, cultural decay, opportunities provided by social media.	<b>3</b>
<b>III</b>	<b>Women's Rights:</b> Democratic women's association, Laws for women's rights, essential legal rights of girl child in India, gender justice, millennium development goals, Political parties.	<b>3</b>
<b>IV</b>	<b>Women's Liberation:</b> Struggle for social rebirth, role of government and NGO's- self-help group for women, Indian political of legal profession and gender representation. the supreme courts efforts, challenging patriarchal narratives, global responsibility, women in sustainable development.	<b>3</b>
<b>V</b>	<b>Inclusivity:</b> Equal opportunities for women and men, equal access and opportunities for disabled people, indigenous populations, refugees and migrants - Importance of challenging and redefining gender roles - value and respect towards all gender identities.	<b>3</b>
<b>TOTAL</b>		<b>15</b>

**Reference Books**

1. Hosoda, M. 2021. Promoting Gender Diversity and Inclusion at Workplace: A Case Study of a Japanese Retail and Financial Service Company. Rikkyo University
2. Palo, S., Jha, K. K. 2020. Introduction to Gender. Tata Institute of Social Sciences.
- Pande, R., A. Malhotra, and C. Grown. 2005. "Impact of investments in female education on gender equality."
4. Debois, E. and L. Dumenil. 2005. Through Women's Eyes: An American History With Documents. St. Martin Press.
5. Carter, Sarah. Mansell, 1990. Women's Studies: A Guide to Information Sources

**Web Resources**

1. [https://en.wikipedia.org/wiki/Women%27s\\_studies](https://en.wikipedia.org/wiki/Women%27s_studies)
2. <https://libguides.berry.edu/wgs/reference>
3. <https://www.albany.edu/~dlafonde/women/wssresguide9602>
4. <https://openbooks.library.umass.edu/introwgss/chapter/references-feminist-movements/>
5. <https://libguides.niu.edu/womensandgenderstudies/ReferenceSources>