

**B.SC., FASHION TECHNOLOGY**  
**SYLLABUS**

**AFFILIATED COLLEGES**

**2024 - 2025 ONWARDS**



**MANONMANIAM SUNDARANAR UNIVERSITY,**  
**TIRUNELVELI**

## **INTRODUCTION**

Outcome Based Education is incorporated into the curriculum based on the requirements of NAAC – UGC-Quality Mandate. To fulfill these requirements, the Program Educational Objectives (PEO's), Program Outcomes (POs) and Program Specific Outcomes (PSOs) and Course Outcomes were framed for all programs in alignment with the Vision and Mission of the respective departments and in-turn with the Vision and Mission and Educational Objectives of the University.

## **VISION OF THE UNIVERSITY**

- To provide quality education to reach the unreached

## **MISSION OF THE UNIVERSITY**

- To conduct research, teaching and outreach programs to improve conditions of human living
- To create an academic environment that honours women and men of all races, caste, creed, cultures and an atmosphere
- That values intellectual curiosity, pursuit of knowledge, academic freedom and integrity
- To offer a wide variety of off campus educational and training programs, including the use of information technology, to individuals and groups
- To develop partnership with industries and government so as to improve the quality of the workplace and to serve as Catalyst for economic and cultural development
- To provide quality /inclusive education, especially for the rural and unreached segments of economically
- Downtrodden students including women, socially oppressed and differently abled.

## **VISION OF THE DEPARTMENT**

The vision of our department is to aspire to be a global leader in fashion and textile industry by imparting creativity, innovation and design to young entrepreneurs and designers and mold them into highly capable professionals in our country.

## **MISSION OF THE DEPARTMENT**

The mission of our department is to provide need- based education for the benefit of the society through value-based holistic approach. To equip the learners with technical skills to meet the challenges of the fashion industry. To engage the students in start-up programmes and create excellent entrepreneurs who serve the society.

## **PREAMBLE**

The present curriculum of B.Sc., Fashion Technology is designed to impart knowledge and skills that is career oriented. It has special relevance to fashion, textile and marketing in industries with additional knowledge and experience in entrepreneurship skills, field work, industrial visit, marketing and hard skill in textile and fashion industry.

## **ELIGIBILITY NORMS FOR ADMISSION**

Candidate should have passed the Higher Secondary Examination conducted by the Board of Higher Secondary Education, Government of Tamil Nadu or any other Examinations accepted by the syndicate as equivalent thereto with any subjects.

## **DURATION OF THE COURSE**

The students shall undergo the prescribed course of study for a period of not less than three academic years (Six semesters).

## B.Sc., FASHION TECHNOLOGY

<b>LEARNING OUTCOMES-BASED CURRICULUM FRAMEWORK GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE PROGRAMME</b>	
<b>Programme:</b>	<b>B.Sc. Fashion Technology</b>
<b>Programme Code:</b>	
<b>Duration:</b>	<b>3 Years (UG)</b>
<b>Programme Outcomes:</b>	<b>PO1: Disciplinary knowledge:</b> Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study

**PO2: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

**PO3: Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO4: Problem solving: Capacity** to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

**PO5: Analytical reasoning:** Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

**PO6: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation

**PO7: Cooperation/Team work:** Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team

**PO8: Scientific reasoning:** Ability to analyse, interpret and draw conclusions

from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

**PO9: Reflective thinking:** Critical sensibility to lived experiences, with self awareness and reflexivity of both self and society.

**PO10 Information/digital literacy:** Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

**PO 11 Self-directed learning:** Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.

**PO 12 Multicultural competence:** Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

**PO 13: Moral and ethical awareness/reasoning:** Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

**PO 14: Leadership readiness/qualities:** Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.

**PO 15: Lifelong learning:** Ability to acquire knowledge and skills, including „learning how to learn“, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.

<b>Programme Specific Outcomes:</b>	<p>On successful completion of Bachelor of <b>Fashion Technology</b> programme, the student should be able to:</p> <p><b>PSO1: Disciplinary Knowledge:</b> Understand the fundamental principles, concepts, and theories related to physics and computer science. Also, exhibit proficiency in performing experiments in the laboratory.</p> <p><b>PSO2: Critical Thinking:</b> Analyse complex problems, evaluate information, synthesize information, apply theoretical concepts to practical situations, identify assumptions and biases, make informed decisions and communicate effectively</p> <p><b>PSO3: Problem Solving:</b> Employ theoretical concepts and critical reasoning ability with physical, mathematical and technical skills to solve problems, acquire data, analyze their physical significance and explore new design possibilities.</p> <p><b>PSO4: Analytical &amp; Scientific Reasoning:</b> Apply scientific methods, collect and analyse data, test hypotheses, evaluate evidence, apply statistical techniques and</p>
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use computational models.

**PSO5: Research related skills:** Formulate research questions, conduct literature reviews, design and execute research studies, communicate research findings and collaborate in research projects.

**PSO6: Self-directed & Lifelong Learning:** Set learning goals, manage their own learning, reflect on their learning, adapt to new contexts, seek out new knowledge, collaborate with others and to continuously improve their skills and knowledge, through ongoing learning and professional development, and contribute to the growth and development of their field.

PO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
PO1	✓					
PO2		✓				
PO3			✓			
PO4				✓		
PO5					✓	
PO6						✓



## 2. Highlights of the Revamped Curriculum:

- Student-centric, meeting the demands of industry & society, incorporating industrial components, hands-on training, skill enhancement modules, industrial project, project with viva-voce, exposure to entrepreneurial skills, training for competitive examinations, sustaining the quality of the core components and incorporating application oriented content wherever required.
- The Core subjects include latest developments in the education and scientific front, advanced programming packages allied with the discipline topics, practical training, devising statistical models and algorithms for providing solutions to industry / real life situations. The curriculum also facilitates peer learning with advanced statistical topics in the final semester, catering to the needs of stakeholders with research aptitude.
- The General Studies and Statistics based problem solving skills are included as mandatory components in the 'Training for Competitive Examinations' course at the final semester, a first of its kind.
- The curriculum is designed so as to strengthen the Industry-Academia interface and provide more job opportunities for the students.
- The Statistical Quality Control course is included to expose the students to real life problems and train the students on designing a mathematical model to provide solutions to the industrial problems.
- The Internship during the second year vacation will help the students gain valuable work experience, that connects classroom knowledge to real world experience and to narrow down and focus on the career path.
- Project with viva-voce component in the fifth semester enables the student, application of conceptual knowledge to practical situations. The state of art technologies in conducting a Explain in a scientific and systematic way and arriving at a precise solution is ensured. Such innovative provisions of the industrial training, project and internships will give students an edge over the counterparts in the job market.
- State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature are incorporated as Elective courses, covering conventional topics to the latest DBMS and Computer software for Analytics.

**Value additions in the Revamped Curriculum:**

Semester	Newly introduced Components	Outcome / Benefits
I	<p><b>Foundation Course</b>                      To ease the transition of learning from higher secondary to higher education, providing an overview of the pedagogy of learning Literature and analysing the world through the literary lens gives rise to a new perspective.</p>	<ul style="list-style-type: none"> <li>➤ Instill confidence among students</li> <li>➤ Create interest for the subject</li> </ul>
I, II, III, IV	<p><b>Skill Enhancement papers</b>                      (Discipline centric / Generic / Entrepreneurial)</p>	<ul style="list-style-type: none"> <li>➤ Industry ready graduates</li> <li>➤ Skilled human resource</li> <li>➤ Students are equipped with essential skills to make them employable</li> <li>➤ Training on language and communication skills enable the students gain knowledge and exposure in the competitive world.</li> <li>➤ Discipline centric skill will improve the Technical knowhow of solving real life problems.</li> </ul>

<p><b>III, IV, V &amp; VI</b></p>	<p>Elective papers</p>	<ul style="list-style-type: none"><li>➤ Strengthening the domain knowledge</li><li>➤ Introducing the stakeholders to the State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature</li><li>➤ Emerging topics in higher education/ industry/ communication network / health sector etc. are introduced with hands-on-training.</li></ul>
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**III, IV, V & VI**

Elective papers

- Strengthening the domain knowledge
- Introducing the stakeholders to the State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature
- Emerging topics in higher education/ industry/ communication network / health sector etc. are introduced with hands-on-training.

<b>IV</b>	Elective Papers	<ul style="list-style-type: none"> <li>➤ Exposure to industry moulds students into solution providers</li> <li>➤ Generates Industry ready graduates</li> <li>➤ Employment opportunities enhanced</li> </ul>
<b>V Semester</b>	Elective papers	<ul style="list-style-type: none"> <li>➤ Self-learning is enhanced</li> <li>➤ Application of the concept to real situation is conceived resulting in tangible outcome</li> </ul>
<b>VI Semester</b>	Elective papers	<ul style="list-style-type: none"> <li>➤ Enriches the study beyond the course.</li> <li>➤ Developing a research framework and presenting their independent and intellectual ideas effectively.</li> </ul>
<b>Extra Credits: For Advanced Learners / Honors degree</b>		<ul style="list-style-type: none"> <li>➤ To cater to the needs of peer learners / research aspirants</li> </ul>
<b>Skills acquired from the Courses</b>	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill	

## Credit Distribution for UG Programmes

Sem I	Credit	H	Sem II	Credit	H	Sem III	Credit	H	Sem IV	Credit	H	Sem V	Credit	H	Sem VI	Credit	H
1.1 Part-1 Tamil or other Lang	3	6	2.1 Part-1 Tamil or other Lang	3	6	3.1 Part-1 Tamil or other Lang	3	6	4.1 Part-1 Tamil or other Lang	3	6	5.1 Core Course IX	4	5	6.1 Core Course -XIII	4	6
1.2 Part-2 English	3	6	2.2 Part-2 English	3	4	3.2 Part-2 English	3	6	4.2 Part-2 English	3	6	5.2 Core Course X	4	5	6.2 Core Course XIV	4	6
1.3 Core Course I	5	5	2.3 Core Course III	4	4	3.3 Core Course V	4	4	4.3 Core Course VII Core Industry Module	4	4	5.3 Core Course XI	4	5	6.3 Core Course XV	4	6
1.4 Core Course II	5	5	2.4 Core Course IV	4	4	3.4 Core Course VI	4	4	4.4 Core Course VIII	4	4	5.4 Core Course -/ Project with viva-voce XII	4	5	6.4 Elective VII Generic / Discipline Specific	3	5
1.5 Elective I Generic / Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	5	6	3.5 Elective III Generic / Discipline Specific	4	4	4.5 Elective IV Generic/ Discipline Specific	4	4	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic / Discipline Specific	3	5
1.6 Skill Enhancement Course-1	2	2	2.6 Skill Enhancement Course-2	1	2	3.6 Skill Enhancement Course 4, (Entrepreneurial Skill)	2	2	4.6 Skill Enhancement Course 6	2	2	5.6 Elective VI Generic/ Discipline Specific	3	4	6.6 Naan Muthalvan	2	2
1.7 Skill Enhancement - (Foundation Course)	2	2	2.7 Skill Enhancement Course 3	1	2	3.7 Naan Muthalvan	2	2	4.7 Naan Muthalvan	2	2	5.7 Naan Muthalvan	2	2	6.7 Extension Activity	1	-
			2.8 Naan Muthalvan	2	2	3.8 Environmental Studies	2	2	4.8 Value Education	2	2	5.8 Internship /Industrial Training	1	-			
	<b>23</b>	<b>30</b>		<b>23</b>	<b>30</b>		<b>24</b>	<b>30</b>		<b>24</b>	<b>30</b>		<b>25</b>	<b>30</b>		<b>21</b>	<b>30</b>

Total - 140 Credits

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## Credit and Hours Distribution System for all UG courses including Lab Hours

### First Year – Semester-I

Part	List of Courses	Credit	No. of Hours
Part-1	Tamil or other Languages	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
Part-4	Skill Enhancement Course COURSE-1	2	2
	Foundation Course	2	2
		<b>23</b>	<b>30</b>

### Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Tamil or other Languages	3	6
Part-2	English	3	4
Part-3	Core Courses & Elective Courses including laboratory [in Total]	11	14
Part-4	Skill Enhancement Course -COURSE-2	2	2
	Skill Enhancement Course -COURSE-3 (Discipline / Subject Specific)	2	2
	Naan Muthalvan –Cambridge Course – English	2	2
		<b>23</b>	<b>30</b>

### Second Year – Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Tamil or other Languages	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	11	10
Part-4	Skill Enhancement Course -COURSE-4 (Entrepreneurial Based)	1	2
	Skill Enhancement Course -COURSE-5 (Discipline / Subject Specific)	2	2
	Environmental Studies	2	2
	Naan Muthalvan	2	2
		<b>24</b>	<b>30</b>

### Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Tamil or other Languages	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	11	10
Part-4	Skill Enhancement Course -COURSE-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -COURSE-7 (Discipline / Subject Specific)	1	2
	Value Based Education	2	2
	Naan Muthalvan	2	2



		<b>24</b>	<b>30</b>
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**Third Year**

**Semester-V**

<b>Part</b>	<b>List of Courses</b>	<b>Credit</b>	<b>No. of Hours</b>
<b>Part-3</b>	Core Courses / Elective Based & LAB	18	23
	Project with Viva Voice	3	5
<b>Part-4</b>	Naan Muthalvan	2	2
	Internship / Industrial Visit / Field Visit	2	
		<b>25</b>	<b>30</b>

**Semester-VI**

<b>Part</b>	<b>List of Courses</b>	<b>Credit</b>	<b>No. of Hours</b>
<b>Part-3</b>	Core Courses / Elective Based & LAB	18	28
<b>Part-4</b>	Naan Muthalvan	1	-
<b>Part-5</b>	Extension Activity	2	2
		<b>21</b>	<b>30</b>

**METHOD OF EVALUATION:**

<b>Continuous Internal</b>	<b>End Semester</b>	<b>Total</b>
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<b>Assessment</b>	<b>Examination</b>	
25	75	100

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## B.Sc FASHION TECHNOLOGY CURRICULUM DESIGN (2024-2025 onwards)

PART	TITLE OF THE COURSE	CREDIT	HOURS/WEEK		Maximum Marks		
			Theory	Practical	CIA	ESE	Total
<b>Semester I</b>							
Part 1.1	Tamil or other Languages	3	6	-			
Part.2 English	English I	3	6	-			
1.3 Core Course	Fiber to Fabric	5	5	-			
1.4 Core Course II	Fashion Designing	5	5	-			
1.5 Elective I Generic/ Discipline Specific	Care and Maintenance of Textiles Fashion Appreciation Non-Woven	3	4	-			
1.6 Skill Enhancement Course	Fashion Sketching Practical	2	-	2			
1.7 Skill Enhancement - (Foundation Course)	Fashion Designing (P)	2	-	2			
<b>Total</b>		<b>23</b>	<b>26</b>	<b>4</b>			
<b>Semester - II</b>							
Part..2.1. Tamil or other Languages	Tamil or other Languages	3	6	-			
Part..2 English	English II	3	4	-			
2..3 Core Course -III	Basics of Garment Construction	5	5	-			
2.4 Core Course - IV	Basics of Garment Construction Practical	3	-	3			
2.5 Elective II Generic/ Discipline Specific	Basics of Cosmetology Home Textiles Garment accessories and trims	3	6	-			
2.6 Skill Enhancement Course	Surface Embellishment Practical	2	-	2			
2.7 Skill Enhancement Course - 3	Fiber to Fabric Practical	2	-	2			
Naan Muthalvan	Cambridge Course – English/ Pattern Making and Grading	2	2				
<b>Total</b>		<b>23</b>	<b>23</b>	<b>7</b>			

Semester - III							
Part..3.1 Tamil or other Languages	Tamil or other Languages	3	6	-			
Part.3.2 English	English III	3	6	-			
3.3 Core Course – V	Fabric Structure and Design	4	4	-			
3.4 Core Course – VI	Garment Construction - Children's wear Practical	3	-	3			
3.5 Elective III Generic/ Discipline Specific	Elective-III Generic/Discipline Specific Home Textiles- Practical Ornaments and Accessory making- Practical	3	-	3			
3.6 Skill Enhancement Course - 4, (Entrepreneurial Skill)	Skill Enhancement course 4 (Entrepreneurial skill)-Business start up	2	2	-			
3.7 Skill Enhancement Course -5	Fabric Structure and Design Practical	2	-	2			
3.8 EVS	Environmental Studies.	2	2	-			
Naan Mudhalvan	Naan Mudhalvan / Sewing Technology	2	2				
	<b>Total</b>	<b>24</b>	<b>22</b>	<b>8</b>			

#### Semester-IV

Part..4.1. Tamil or other Languages	Tamil or other Languages	3	6	-			
Part.4.2 English	English IV	3	6	-			
4.3 Core Course – VII Core Industry Module	Core Course VII -Industry module - Industrial Garment Machineries	4	4	-			
4.4 Core Course – VIII	Core Course-VIII – Textile Wet Processing	3	3	-			

4.5 Elective IV Generic/ Discipline Specific	Elective – IV Generic/Discipline Specific Draping Practical  Design process and product development Practical	3	-	3			
4.6 Skill Enhancement Course SEC-6	Skill Enhancement Course6 - Textile Dyeing and Printing Practical	2	-	2			
4.7 Skill Enhancement Course -7	Skill Enhancement Course 7- Computer Aided Design I Practical	2	-	2			
4.8 VBE	Value Based Education	2	2	-			
Naan Mudhalvan	Naan Mudhalvan /Basics of Embroidery	2	2				
<b>Total</b>		<b>24</b>	<b>23</b>	<b>7</b>			
<b>Semester – V</b>							
5.1 Core Course – IX	Core Course IX- Costumes and Textiles of India	4	5	-			
5.2 Core Course – X	Core Course X- Garment Quality and Cost Control	4	5	-			
5.3 Core Course -XI	Core Course XI- Garment Construction -Adult Wear Practical	4	-	5			
5.4 Core Course –/ Project with viva- voce -XII	Core Course XII - Project with Viva - Portfolio Development	4	-	5			
5.5 Elective V Generic/ Discipline Specific	Elective –V Generic/Discipline specific Eco Dyeing and Printing Practical Design for high end knits Practical	3	-	4			
5.6 Elective VI Generic/ Discipline Specific	Elective –VI Generic/Discipline Specific Marketing and Merchandising Knitting	3	4	-			
5.7 Naan Mudhalvan	Naan Mudhalvan / Fashion Concept	2	2				
5.8 Internship /Industrial Training	Internship/Industrial Visit / Field Visit	1	-				
<b>Total</b>		<b>25</b>	<b>16</b>	<b>14</b>			
<b>Semester VI</b>							

6.1 Core Course – XIII	Core Course -XIII The Business of Fashion	4	6	-			
6.2 Core Course – XIV	Core Course XIV- Computer Applications in Garment Industry	4	6	-			
6.3 Core Course – XV	Core Course XV- Computer Aided Design- II Practical	4	-	6			
6.4 Elective -VII Generic/ Discipline Specific	Generic/Discipline Specific Organisation of garment Unit Technical Textiles	3	5	-			
6.5 Elective VIII Generic/ Discipline Specific	E-VIII Generic /Discipline Specific Sustainable Product development Practical Couture design development practical	3	-	5			
Part V 6.6 Naan Mudhalvan	Naan Mudhalvan / Fibre To Fashion	2	2	-			
Part IV 6.7 Extension Activity	Extension Activity	1		-			
	<b>Total</b>	<b>21</b>	<b>19</b>	<b>11</b>			
	<b>Grand Total</b>	<b>140</b>					
		<b>Credits</b>					

## SEMESTER I

<b>Course code</b>		<b>FIBER TO FABRIC</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
Core Course -1		<b>Paper I</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>4</b>
<b>Prerequisite</b>		<b>Basic knowledge in textile science</b>	<b>Syllabus</b>	<b>2023-</b>		
			<b>Version</b>	<b>2024</b>		
<b>Course Objectives:</b>						
The main objectives of this course are to: <ol style="list-style-type: none"><li>1. Impart knowledge on the manufacturing process of fabric from the fiber</li><li>2. Teach the methods and techniques involved in the fibre, yarn and fabric manufacturing process</li><li>3. Know the trends and technologies followed in the textile industry</li></ol>						
<b>Expected Course Outcomes:</b>						
On successful completion of the course, student will be able to:						

CO1	Classify fibers and understand the manufacturing and properties of natural fibers	K2
CO2	Discover the manufacturing process of man - made fiber	K3
CO3	Understand the yarn types and its manufacturing process	K2
CO4	Describe the weaving methods and its characteristic features	K1
CO5	Gain an understanding of knitting and non wovens	K4

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

**Unit: I Fiber Classification, Natural fibers**

**12 hours**

Introduction to Textiles Fibers - classification of fibers – primary and secondary characteristics of textile fibers.

Manufacturing process, properties and uses of natural fibers – cotton, l i n e n , Jute, silk, wool. Brief study about Organic Cotton, woolen and worsted yarn, types of silk.

**Unit: II Regenerated and synthetic fibers**

**12 hours**

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.

**Unit: III Yarn manufacturing**

**12 hours**

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.

**Unit: IV Weaving Mechanism**

**12 hours**

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 jet.

**Unit: V Knitting and Non-Woven Fabrics**

**12 hours**

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.

**Total Lecture hours 60 hours**

**Text Book**

1. Textiles –Fibre to fabric, Corbmann B.P, International student's edition, Mc Graw Hill. Book company, Singapore,1985.
2. Textile fabrics and their Selection – Isabel Barnum Wingate, Published by Prentice-Hall, 1964.
3. Fundamentals of Textiles and Their care, Susheela dantiyagi, Orient Longman Private limited, Fifth edition,1996.

**Reference Books**

1. Textile Mechanisms in Spinning and Weaving Machines, Ganapathy Nagarajan, WoodheadPublishing India in Texiles, 2014.
2. Mechanisms of Flat Weaving Technology, Elena V Chepelyuk, Palitha Bandara and Valeriy V, Choogin; Woodhead Publishing series in Textiles, 2013.

3. Handbook of fiber science and Technology, Menachem Lewin and Stephen B Sello, MarcelDekker, Inc, New York,1984.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1. <http://textilefashionstudy.com>
2. <https://fashion2apparel.blogspot.com/2017/07/classification-loom.html>
3. <https://www.inda.org/about-nonwovens/>

**LOCF MAPPING**

COs	PO1	PO2	PO3	PO4	PO5	PO6
CO1	L	M	S	S	S	L
CO2	M	M	S	S	S	L
CO3	L	M	M	S	S	M
CO4	M	S	S	S	S	M
CO5	M	M	M	S	S	M

\*S-Strong; M-Medium; L-Low

Course code	FASHION DESIGNING				L	T	P	C
Core Course - 2	Paper II				4	-	-	4
Prerequisite	Have basic knowledge in designing				Syllabus	2023-2024		
Course Objectives:								

The main objectives of this course are to:

1. Impart knowledge on design concepts in the field of fashion
2. Familiarize with the fashion cycles, consumers and theories
3. Design suitable garments for unusual figure types

**Expected Course Outcomes:**

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

CO1		Understand the design types, elements and principles of design	K2
CO2		Appraise the colour combinations with standard colour harmonies	K5
CO3		Interpret the fashion cycles, consumer groups and fashion theories	K2
CO4		Develop dress design for unusual figure types	K6
CO5		Define and describe the fashion terminologies and fashion profiles	K1
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create			

**Unit: I Design Elements and Principles**

**12 hours**

Design- definition and types – structural and decorative design, requirements of a good structural and decorative design in dress.

Elements of design and its application in dress – line, shape or form, colour and texture. Principles of design and its application in dress – balance, rhythm, emphasis, harmony and proportion.

**Unit: II Standard Colour Harmonies**

**12 hours**

Colour theories; Prang colour chart Dimensions of colour- hue, value, and intensity. Standard colour harmonies – Related, Contrasting and Neutral colour harmony; Application of Colour in principles of design- application of the same in dress design.

**Unit: III Fashion Evolution and Fashion Forecasting**

**12 hours**

Fashion evolution – Fashion cycles, Length of cycles, consumer groups in fashion cycles – fashion leaders, fashion innovators, fashion motivation, fashion victim, Fashion followers. Adoption of Fashion theories – Trickle down, trickle up and trickle across. Fashion forecasting – Need for forecasting.

**Unit: IV Designing Dresses for Unusual Figures**

**12 hours**

Designing dresses for unusual figures – becoming and unbecoming – for the following figure types. Stout figure, thin figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face, prominent chin and jaw, prominent forehead.

**Unit: V Fashion Terminologies and Fashion Profiles**

**12 hours**

Definition and meaning of the fashion terms – fashion, style, line and collection, Mannequin and dressforms; fashion show; high fashion; Haute couture, couture and couturier; knock-off; Avant Garde; Pre-a-porter, Role/qualities of a Fashion Designer, Fashion Stylist, Fashion Journalist, Fashion Merchandiser, Fashion Director.

**Total Lecture hours - 60 hours**

**Text Book(s)**

1. Fashion Sketch Book – Bina Abling, Fair Child Publications, New York Wardrobe, 1988.
2. Art and Fashion in Clothing Selection – Mc Jimsey and Harriet, Iowa State University Press, Iowa, 1973.

**Reference Books**

1. Fashion From Concept to Consumer – Frings Gini Stephens, Pearson Education, US, 1998.
2. Inside the Fashion Business – Kitty G. Dickerson, Pearson Education, US, 2007.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1. <https://www.apparesearch.com/terms/index.htm>
2. <https://www.instyle.com/fashion>

3. <https://prezi.com/1tlwgnhviqs-/fashion-elements-and-principles-of-design/>

### LOCF MAPPING

<b>COs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	S	M	L	M	S
<b>CO3</b>	M	S	M	L	M	S
<b>CO3</b>	M	S	M	L	M	S
<b>CO4</b>	M	S	M	L	M	S
<b>CO5</b>	M	S	M	L	M	S

\*S-Strong; M-Medium; L-Low

<b>Course code</b>		<b>CARE AND MAINTANENCE OF TEXTILE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
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<b>Elective - 1 (a)</b>		<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Prerequisite</b>	<b>Basic knowledge about fabric and Garment Care</b>	<b>Syllabus</b>	<b>Version</b>	<b>2023-2024</b>	
<b>Course Objectives:</b>					
The main objectives of this course are to:					
1. Gain a better understanding method in taking proper care of the clothing.					
2. Impart knowledge on machines and equipment's used in the washing, storing and ironing process.					
3. Impart knowledge on the types of the wash care labels and their meaning.					
<b>Expected Course Outcomes:</b>					
On the successful completion of the course, student will be able to:					
CO1	Identify suitable methods of washing, drying, ironing and storing.				K1
CO2	Understand the wash care labels and act accordingly.				K2
CO3	Appraise the types of equipment used in the care of fabrics.				K3
CO4	Recognize the need for dry-cleaning for fabrics.				K2
CO5	Evaluate the methods and equipment's to be used for a better life of clothes				K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>					

**Unit: I Water and Laundry Soaps****12 hours**

Water-hard and soft water, methods of softening water. Laundry soaps -composition of soap types of soap, soap less detergents, detergent manufacture, advantages of detergents, Manufacturing process of soap and detergents.

**Unit: II Finishes and Stain Removal****12 hours**

Finishes–Stiffening Agents –Starch (cold water and hot water), Other stiffening agents, preparation of starch, laundry blues, their application. Stain removal common methods of removing stains; food stains, lead pencil, lipstick, mildew, nose drops, paint, perfume, perspiration/mildew, tar, turmeric and kum-kum.

**Unit: III Washing, Drying and Ironing****12 hours**

Washing–Points to be noted before washing, Machine–types semi-automatic and fully automatic; Top loading and front loading; wash cycles in a washing machine Drying equipment's–Indoor and outdoor drying Iron box–Parts and functions of an electric iron box; types-automatic iron box and steam iron. Ironing board - different types.

**Unit: IV Laundering of Different Fabrics****12 hours**

Laundering of different fabrics– cotton and linen, woolens, coloured fabrics, silks, rayon and nylon. Special types of Laundry–waterproof coats, silk ties, leather goods, furs, plastics, lace.

**Unit: V Storing, Dry Cleaning and Care Labels****12 hours**

Storing – Methods of storing clothes, best way to store clothes Drycleaning–Benefits, differences between dry cleaning and laundry, Steps in dry cleaning, Care labels –Importance and Types -The International Care Labelling System, The Japanese Care Labelling System, The Canadian Care Labelling System, The European Care Labelling System, The American Care Labelling System.

**Total Lecture hours - 60 hours****Text Book(s)**

1. Wingate I B, Textiles fabrics and their Selection, Prentice-Hall Inc Publishers, 1946.
2. Fundamentals of Textiles and their Care- Susheela Dantyagi, Orient LongmannLtd,1980.

**Reference Books**

1. Mildred T. Tate and Glisson.O., Family Clothing, John Wiley & Sons Inc, Illinois,1961.
2. Durga Deulkar, Household Textiles and Laundry Work, Amla Ram & Sons, Delhi,1951.

### Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1. <https://tide.com/en-us/how-to-wash-clothes/how-to-do-laundry/your-comprehensive-guide-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>

### LOCF MAPPING

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	L	L	L	L	L
<b>CO2</b>	L	M	M	S	S	L
<b>CO3</b>	L	M	M	M	M	L
<b>CO4</b>	L	M	M	M	M	L
<b>CO5</b>	L	L	M	M	M	L

\*S-Strong; M-Medium; L-Low



<b>Course code</b>		<b>FASHION APPRECIATION</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - 1 (b)</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>		<b>Fashion concept and various fashion environment</b>	<b>Syllabus Version</b>	<b>2023-2024</b>		
<b>Course Objectives:</b>						
<p>The main objectives of this course are to:</p> <ol style="list-style-type: none"> <li>1. To introduce various art forms to the students by class room teaching, case studies, pictorial presentation and craft tools.</li> <li>2. To engage the students to work on types of fashion and art forms by making them to create miniature models.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Remember the basics of fashion concepts					K1
CO2	Understand fashion styling, role of fashion and forecasting.					K2
CO3	Apply the concepts of styling as free lancing and photo shooting.					K3
CO4	Analyze the various cultural adoption and world art.					K4
CO5	Create world art and writing based on fashion concepts					K6

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

**Unit: I Introduction to Fashion**

**12 hours**

Introduction to fashion – Types of Fashion – Haute Couture fashion–Ready-to-Wear fashion-Mass market fashion – Fashion cycle.

**Unit: II Fashion Styles**

**12 hours**

Types of fashion styles: chic, bohemian, vintage, preppy, artsy, tomboy. Alternative clothing style – Punk Fashion, Gothic Fashion, hipster, steam punk, street grunge, Heavy metal fashion.

**Unit: III Art Forms**

**12 hours**

Fashion as Cultural Indicators, Cross Culture Studies, Role of fashion in human culture, Fashion Adoptions – sources of inspiration and their selection. World Art–Cubism, Pop art, German expression, Futurism Dada.

**Unit: IV Art of writing**

**12 hours**

Art Writing, writing for blogs, mind mapping and keyword selection, working as a creative team with free lancing stylist. Creating story, content preparation for art and styling, working on concept boards, setting trends, curating and narrating, fashion forecasting.

**Unit: V Photoshoot**

**12 hours**

Styling and basic grooming–model poses based on garment –final photoshoot and outcome.

**Total Lecture hours -**

**60 hours**

**Text Books**

1. Louvre: all the Paintings, Anja Grebe, Black Dog & Leventhal, New York,2020. 2. Printers of the Mughal Garden, Brigitte Singh, Bishwadeep Maitra, Mapin Publishing Pvt,Ltd, Gujarat, 2018.
3. Think Likean Artist, Will Gompertz, Penguin Publishers, London,2016.

**Reference Books**

1. Post Modernism– A Very Short Introduction, Christopher Butler, Oxford University Press, Uttar Pradesh, 2002.

2. Indian Art, Parthe Mitter, Oxford University Press, Uttar Pradesh, 2001.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1. <https://www.masterclass.com/articles/types-of-fashion-styles>
2. <https://www.kokuyocamlin.com/camel/techniques/art-reporter/famous-painting-styles-of-the-world>
3. <https://sewport.com/learn/fashion-photoshoot>

**LOCF MAPPING**

<b>COs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	L	L	L	L	S
<b>CO2</b>	L	L	L	L	L	S
<b>CO3</b>	L	L	L	L	L	S
<b>CO4</b>	L	L	L	L	L	S
<b>CO5</b>	L	L	L	L	L	S

\*S-Strong; M-Medium; L-Low

Course Code	NON-WOVEN			L	T	P	C
Elective - 1 (c)				4	-	-	3
Pre-requisite	Basic knowledge about fabric						
<b>Course Objectives:</b>							
<p>The main objectives of this course are to:</p> <ol style="list-style-type: none"> <li>1. Rephrase Fiber preparation process.</li> <li>2. Gain an understanding about Nonwovens.</li> <li>3. Impart knowledge on Bonding process.</li> <li>4. Impart knowledge on fiber preparation for non-woven production</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Define Non wovens fiber used in textile industry.						K1

CO2	Understand the wash care labels and act accordingly and summarize the fiber.Preparation Processes of raw materials.	K2
CO3	Appraise the types of equipment used in the care of fabrics and categorize the web bondingprocess.	K3
CO4	Recognize the need for dry cleaning for fabrics and Interpret polymer technologies. and its sequence.	K2
CO5	Evaluate theme and equipment's to be used for a better life of clothes—Analyze the structure of non-woven fiber.	K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		

**Unit: I Fiber for Non-woven**

**12 hours**

Overview of Nonwovens -Introduction and Definitions, Elements of non-woven, Fibers -geometry, Structure of fibrous webs. Basic non- woven processes and their sequences.

**Unit: II Fiber Preparation Processes of raw materials**

**12 hours**

Uses of natural fiber for non-woven fabrics, Fiber Preparation Processes of raw materials –Fiber preparation mixing and Carding process, Parallel lay process, Cross lay process, Perpendicular - Lay process, Air-lay process and Wet-lay process.

**Unit: III Web Bonding**

**12 hours**

Web Bonding Processes Mechanical bonding processes - Needle-punch process and Hydrogen entanglement process. Thermal bonding processes-Principles of thermal bonding, Calendar bonding process, Through-air bonding process, Infra-red bonding process, Ultra sonic 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

**Unit: IV Structure and Application**

**12 hours**

Web geometry, fiber orientation curl factor, web density. Identification, properties and

application of different non-woven.

**Unit: V Evaluation of Non-Woven Fabrics**

**12hours**

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 .

**Total Lecture hours - 60 hours**

**Text Books**

1. S.J. Russell(Ed.),HandbookofNonwovens,WoodheadPublishing,CRCPress,WashingtonDC,2007.
2. W. Albrecht, H. Fuchs and W.Kettelmann, Non-woven Fabrics: RawMaterials, Manufacture, Applications, Characteristics, Testing Process, Wiley- VCH, VerlagGmb H &Co. KGA.

**Reference Books**

1. M.S. Casper, Non - woven, Textiles, Noyes Data Corp. (Park Ridge, N.J),1975. **2.** M.Mcdonald,NonwovenFabricTechnology,ParkRidge,NJ:NoyesData,1971.AjointventurebyII ScandIITs, funded.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1. <https://recovo.co/blog/what-is-non-woven-fabric/>
2. <https://www.textileschool.com/352/non-woven-fabrics/>
3. <https://www.textiletoday.com.bd/types-non-woven-fabrics-manufacturing-processes- applications>

**LOCF MAPPING**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	L	L	L	L	L
<b>CO2</b>	L	M	M	S	S	L
<b>CO3</b>	L	M	M	M	M	L
<b>CO4</b>	L	M	M	M	M	L
<b>CO5</b>	L	L	M	M	M	L

\*S-Strong; M-Medium; L-Low

MSU

Course code		FASHION SKETCHING PRACTICAL	L	T	P	C
Skill Enhancement Course – 1			-		2	2
Pre-requisite	Basic drawing skills					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Impart skills in drawing and colouring.</li> <li>2. Illustrate garment sketches for children, women, and men.</li> <li>3. Create sketches of different parts of a human body in different perspectives</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Illustrate garment designs for children				K4	
CO2	Illustrate garment designs for women				K4	
CO3	Illustrate garment designs for men				K4	
CO4	Sketch the parts of the body in various perspectives				K3	
CO5	Sketch different views of male and female face				K3	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1. Illustrate the Following in Different Perspectives</b>					<b>6hours</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>• Legs</li> </ul>						
<b>2. Sketch the face of male and female in different views</b>					<b>6hours</b>	
<ul style="list-style-type: none"> <li>• Front view</li> <li>• Three quarter turned view</li> <li>• Profile view (side view)</li> </ul>						
<b>3. Illustrate the Following Children's Garments</b>					<b>6hours</b>	
Instructions–Create designs and Colour using any medium ;Give details						
<ul style="list-style-type: none"> <li>• Bib</li> <li>• Jabla with knicker</li> <li>• Baba suit</li> <li>• Frocks</li> </ul>						
<b>4. Illustrate the Following Women's Garments</b>					<b>6hours</b>	



Instructions—Create designs ;Colour using any medium; Give details

- Skirts
- Ladies tops
- Salwar

MSU

- Kameez
- Maxi/ Gown
- Dungarees

### 5. Illustrate the Following Men's Garments

**6 hours**

Instructions – Create designs; Colour using any medium; Give details

- T-Shirts
- Shirts
- Pants
- Kurta
- Pyjama

**Total Lecture hours**

**30 hours**

### Text Books

- |   |  |
|---|--|
| 1 | Fashion Design Drawing and Presentation, Ireland Patrick John, Pavilion Books, 1982. |
| 2 | Fashion Design Illustration: Children, Ireland Patrick John, BT Batsford Ltd, 1995.  |
| 3 | Fashion Design Illustration: Men, Ireland Patrick John, BT Batsford Ltd, 1996.       |

### Reference Books

- |   |   |
|---|---|
| 1 | Fashion Illustration, Kiper Anna, David & Charles, 2011. ISBN: 9780715336182.             |
| 2 | Foundation in Fashion Design and Illustration – Julian Seaman, Batsford Publishers, 2001. |

### Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

- |   |   |
|---|---|
| 1 | <a href="https://www.idrawfashion.com/">https://www.idrawfashion.com/</a>   |
| 2 | <a href="https://www.fashionistasketch.com/drawing-faces-fashion-illustration/">https://www.fashionistasketch.com/drawing-faces-fashion-illustration/</a> |
| 3 | <a href="https://in.pinterest.com/pin/458804280762797371/">https://in.pinterest.com/pin/458804280762797371/</a>   |

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	S	M	S	L	M
CO2	S	S	M	S	L	M
CO3	S	S	M	S	L	M
CO4	S	S	M	S	L	M
CO5	S	S	M	S	L	M

\*S-Strong; M-Medium; L-Low

<b>Course code</b>		<b>FASHION DESIGNING PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Skill Enhancement -2 (FC)</b>			-	-	2	2
<b>Pre-requisite</b>		<b>Knowledge in Fashion Sketching</b>				
<b>Course Objectives:</b>						
<p>The main objectives of this course are to:</p> <p>Familiarize with the elements and principles of design.</p> <p>Play with colours following the standard colour harmonies.</p> <p>Create garment design for various seasons on fashion figures.</p>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
	Develop Prang colour chart, value and intensity chart.					K6
	Illustrate figures-child, women and men					K4
	Sketch garment designs following the various elements of design					K3
	Apply the principles of design and colour harmonies in garments design					K3
	Create garment designs for various seasons					K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						

**Unit: I Prepare the following Charts 05 hours** 1. Prang colour chart,

2. Value chart
3. Intensity chart

**Unit: II Illustrate Human Figure for the Following Heads 05 hours**

1. Child  
- 6 head.
2. Women – 8 head, 10 head and 12 head.
3. Men – 10 head

**Unit: III Illustrate Garment Designs for the Elements of Design 05 hours**

1. Line
2. Texture
3. Shape

**Unit: IV Illustrate Garment Designs for the Principles of Design 05 hours**

1. Balance (Formal and Informal)
2. Harmony
3. Emphasis
4. Proportion
5. Rhythm (by Repetition, Graduation and Line Movement)

**Unit: V Illustrate the Colour Harmony in Dress Design 05 hours**

- Monochromatic
- Analogous
- Complimentary
- Double complementary
- Split complementary
- Triad
- Neutral

**Create Garments for the Following Seasons 05 hours**

- Summer
- Winter
- Autumn

· Spring

**Total Lecture hours - 30 hours**

**Text Books**

1. Fashion Sketch Book, Bina Abing, Fair Child Publications, New York Wardrobe, 1988. 2. Illustrating Fashion, Kathryn McKelvey and Janine Munslow, Blackwell Science, 1997. **Reference Books**

1. Art and Fashion in Clothing Selection, Mc Jimsey and Harriet, Iowa State University Press, Iowa, 1973.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1. <https://www.idrawfashion.com/>
2. <https://www.fashionistasketch.com/drawing-faces-fashion-illustration/>
3. <https://in.pinterest.com/pin/458804280762797371/>

**LOCF MAPPING**

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	S	M	S	L	M
<b>CO2</b>	S	S	M	S	L	M
<b>CO3</b>	S	S	M	S	L	M
<b>CO4</b>	S	S	M	S	L	M
<b>CO5</b>	S	S	M	S	L	M

\*S-Strong; M-Medium; L-Low

MASU

**SEMESTER-II**

<b>Course code</b>		<b>BASICS OF GARMENT CONSTRUCTION</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core III</b>			<b>5</b>	<b>-</b>	<b>-</b>	<b>5</b>
<b>Pre-requisite</b>		<b>Basic knowledge about garment components</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Teach the basics of the functions of the sewing machine and the essential tools						
2. Explain the techniques of pattern making, grading and alteration						
3. Understand the types of sleeves, yokes and collars						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Describe the functions of a sewing machine and the tools needed for sewing					K2
CO2	Compare the methods of preparing pattern					K2
CO3	Appraise the types of sleeve					K4
CO4	Analyze the types of collars and yokes					K4
CO5	Appraise the techniques in pattern layout, alteration and grading					K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Essentials of Sewing</b>					<b>15 hours</b>
Parts and functions of a single needle machine, essential tools – cutting tools, measuring tools, marking tools, embroidery tools, general tools, pressing tools, Body measurement – importance, Method of taking measurements for ladies and men. Measurements required for women’s salwar and kameez. Measurements required for men’s shirt and Pant.						
<b>Unit:2</b>	<b>Pattern Making and Fitting</b>					<b>15 hours</b>
Pattern Making – Types; Drafting, Draping and Commercial Patterns; Advantages and Limitations. Methods of transferring pattern markings; Grain – Importance, its types; Fitting - Standards of a good fit						
<b>Unit:3</b>	<b>Sleeve and Its Types</b>					<b>15 hours</b>

Sleeves – definition, types, set-in-sleeves – plain sleeve, puff sleeve, bishop sleeve, bell, circular. Modified armhole – squared armhole. cap sleeve and Magyar sleeve. Sleeve and bodice combined – raglan, kimono and dolman

<b>Unit:4</b>	<b>Types of Collars and Yokes</b>	<b>15 hours</b>
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Collars – definitions, types, peter pan, scalloped, puritan, sailor, square, rippled, full shirt collar, open collar, Chinese, turtle neck, shawl collar  
Yokes – types, simple yoke, yoke with fullness within the yoke, yoke supporting/ releasing fullness.

<b>Unit:5</b>	<b>Pattern Alteration, Layout and Grading</b>	<b>15 hours</b>
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Pattern alteration – importance of altering patterns, general principles for pattern alteration, common pattern alteration in a blouse.  
Pattern layout - definition, purpose, rules in layout, types of layouts Pattern grading (manual) – definition, basic front, basic back basic sleeve



	<b>Total Lecture hours</b>	<b>75 hours</b>
<b>Text Books</b>		
1	Practical Clothing Construction – Part I, Mary Mathews, Cosmic Press, Chennai ,1986.	
2	Practical Clothing Construction – Part II, Mary Mathews, Cosmic Press, Chennai ,1986.	
3	Zarapker system of cutting –Zarapker. K. R., Navneet publications Ltd ,1994.	
<b>Reference Books</b>		
1	Pattern Grading for Women’s clothing, The technology of sizing, Gerry Cooklin, Blackwell Science Ltd ,1990.	
2	Sewing and Knitting – A Readers Digest, Step -by -Step Guide, Readers Digest Pvt Ltd, Australia,1993.	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1	<a href="http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827">http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</a>	
2	<a href="https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html">https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html</a>	
3	<a href="https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html">https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html</a>	
4	<a href="https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making">https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making</a>	

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	M	M	S	L	M
<b>CO2</b>	S	M	M	M	L	L
<b>CO3</b>	S	S	S	M	L	M
<b>CO4</b>	S	S	S	M	L	M
<b>CO5</b>	S	M	M	S	L	L

\*S-Strong; M-Medium; L-Low

Course code	BASICS OF GARMENT CONSTRUCTION PRACTICAL			L	T	P	C
Core IV				-	-	5	5
Pre-requisite	Basic knowledge in garment construction						
<b>Course Objectives:</b>							
The main objectives of this course are to create:							
<ol style="list-style-type: none"> <li>1. Impart sewing skills in creating garment components.</li> <li>2. Develop miniature patterns for skirts, sleeves, collars and yoke.</li> <li>3. Create miniature samples for skirts, sleeves, collars and yoke</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Develop samples for seams, seam finishes and hems					K6	
CO2	Create samples for fullness and neckline finishes					K6	
CO3	Create samples for plackets fasteners and pockets					K6	
CO4	Construct miniature samples for skirt and sleeves					K6	
CO5	Construct miniature samples for collars and yoke					K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>1.Preparation Samples for the Following</b>						<b>35hours</b>	
<ol style="list-style-type: none"> <li>1. Seams–Plain seam, top stitched seam, flat fell seam, piped seam, lapped seam</li> <li>2. Seam Finishes–double stitch, edge stitched, over lock (optional)</li> <li>3. Hems–narrow, stitched and turned ,hems for circular shape</li> <li>4. Darts –single and double</li> <li>5. Tucks–Pin tuck, cross tuck, group tucking</li> <li>6. Neckline Finishes– Bias facing, Bias binding and Shaped facing</li> <li>7. Plackets–continuous placket, bound placket and faced placket, zipper placket, tailored placket</li> <li>8. Fasteners–Press buttons, Hook and eye, Button and Button hole</li> <li>9. Pocket–Patch pocket, side seam pocket ,bound and faced pocket</li> </ol>							
<b>2.Prepare Miniature Samples for the following</b>						<b>40hours</b>	
<ol style="list-style-type: none"> <li>1. Skirt–pleated skirt, gathered skirt, circular skirt</li> <li>2. Sleeve–Plain sleeve, Magyar Sleeve, Raglan Sleeve</li> <li>3. Collar-Flat collar(any type),Open collar</li> <li>4. Simple Yoke</li> </ol>							
						<b>Total Lecture hours</b>	
						<b>75hours</b>	
<b>Text Books</b>							
1	Practical Clothing Construction–PartI, Mary Mathews, Cosmic Press, Chennai, 1986.						
2	Practical Clothing Construction–PartII, Mary Mathews, Cosmic Press, Chennai, 1986.						
3	Zarapker system of cutting–Zarapker. K.R., Navneet publications Ltd, 1994.						
<b>Reference Books</b>							
1	Sewing and Knitting–A Readers Digest, Step-by-Step Guide, Readers Digest Pvt Ltd, Australia, 1993.						
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>							
1	<a href="http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827">http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</a>						
2	<a href="https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html">https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html</a>						

3	<a href="https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html">https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html</a>
4	<a href="https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making">https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	L	M	M	M	M
<b>CO2</b>	S	L	M	M	M	M
<b>CO3</b>	S	L	M	M	M	M
<b>CO4</b>	S	L	M	M	M	M
<b>CO5</b>	S	L	M	M	M	M

\*S-Strong; M-Medium; L-Low

<b>Course code</b>		<b>BASICS OF COSMETOLOGY</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - 2 (a)</b>			4	-	-	3
<b>Pre-requisite</b>		<b>Basic knowledge about personal care</b>	<b>Syllabus Version</b>		<b>2023-2024</b>	
<b>Course Objectives:</b>						
<ol style="list-style-type: none"> <li>1. To gain knowledge about personal grooming</li> <li>2. To enable the student to develop knowledge in dressing, make up to the Etiquettes.</li> <li>3. To help them to understand and apply the procedures for different personalities</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Importance of cosmetology					K1
CO2	Understand Equipment used for pedicure, basic pedicure technique					K2
CO3	Beware of Equipment and techniques used for Manicure					K2
CO4	Analyze skin and hair					K3
CO5	Apply face makeup					K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						

### **Unit: I Cosmetology – An Introduction**

**12 hours**

Cosmetology – Introduction, Definition, and its importance-difference between beautician and Cosmetologist -features of a cosmetologist – Types and application- Self- grooming–definition and its importance.

### **Unit: II Pedicure**

**12 hours**

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.

### **Unit: III Manicure**

**12 hours**

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.

### **Unit: IV Skin and hair**

**12 hours**

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.

### Unit: V Face makeup

12 hours

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.

**Total Lecture hours - 60 hours**

#### Text Books

1. Dr. Neena Khanna, Body and Beauty Care, Pustak Mahal Publishers (2011).
2. Rashmi Sharma, Herbal Beauty & Body Care. Pustak Mahal Publishers (2011).
3. Richa Dave, Make-up Album, Navneet Publication (2006).

#### Reference Books

1. Catherine M.Frangie. Milady, Standard cosmetology, Milady Publishing Company.(2014).
2. Roshini Dayal, Natural Beauty Secrets from India, Tata publishing Enterprises. LLC,(2008).
3. P.J.Fitzgerald., The complete book of Hairstyling, Mansoor book house,(2003).Trinny woodwall,Sunsannal constantive,

#### Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

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-makeup>

#### LOCF MAPPING

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	M	S	M	S	S	S
CO2	M	S	L	S	S	S
CO3	M	S	M	S	S	S
CO4	L	S	M	S	S	S
CO5	L	S	L	S	S	S

\*S-Strong; M-Medium; L-Low

Course code	HOME TEXTILES			L	T	P	C
Elective - 2 (b)				4	-	-	3
Pre-requisite	Knowledge about choice of fabrics for Home Textiles			Syllabus Version	2023-2024		
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Impart knowledge on the various home textile products</li> <li>2. Gain in sights on the bedlinens, kitchen linens, bathroom linens</li> <li>3. Acquire better understanding on the choice of fabrics for the home textile products</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Classify the home textile products					K2	
CO2	Understand the types of floor and wall coverings					K2	
CO3	Distinguish curtains and draperies					K4	
CO4	Describe the types of soft furnishings					K1	
CO5	Discover the types and functions of kitchen linen					K3	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							

### Unit: I Home Textiles – An Introduction

**12 hours**

Introduction to home textiles, definition, types of home textiles, factors influencing selection of home textiles, recent trends in home textiles.

### Unit: II Floor and Wall Covering

**12 hours**

Floor and wall coverings– definition, types of floors covering –hard, soft and resilient floor coverings and uses and care and maintenance of floor coverings. Wall covering-definition, uses care and maintenance of wallcoverings.

### Unit: III Door and Window Treatment

**12 hours**

Door and window treatments – definition and parts of door and windows, curtains and draperies – definition and materials used for curtains and draperies. Types of Curtains –draw, tailored, pleated, cafe, three tier curtains. Types of Draperies– swags. Accessories- rod shook, rails, racks, curtain tape pins.

### Unit: IV Soft Furnishings for Living and Bed Linen

**12 hours**

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

### Unit: V Soft Furnishings for Kitchen and Dining

**12 hours**

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, cutlery holder, fruit baskets, hand towels- uses and care. Bathroom linens– types, uses and care.

**Total Lecture hours - 60 hours**

**Text Books**

1. Home Comforts – The Arts and Science of Keeping Home, Cheryl Mendelson, Scriber, New York,2005.
2. Cushions and Pillows – Professional Skills – Made Easy, Hamlyn Octopus, Octopus Publishing Group,New York, 2001
3. The Ultimate Sewing Book 200 Sewing Ideas for You and Your Home, Magi MC, Mc Cormick Gordon, Collins and Brown, London. 2002.

**Reference Books**

1. Artin Everyday Life, Harriet Goldstein and Vetta Goldstien, The Macmillian Company,2004
2. Performance of Home Textiles, Subrata Das, Woodhead Publishing India Pvt. Limited, 2010
3. Home Furnishing, V.Ramesh BabuandS. Sundaresan, Woodhead Publishing India Pvt. Limited, 2018.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

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

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	S	S	S	M	M
<b>CO2</b>	S	S	S	S	M	M
<b>CO3</b>	S	S	S	S	M	S
<b>CO4</b>	S	S	S	S	M	S
<b>CO5</b>	S	S	S	S	M	S

\*S-Strong; M-Medium; L-Low

<b>Course code</b>		<b>GARMENT ACCESSORIES AND TRIMS</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - 2 (c)</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Knowledge about the types of accessories and trims used in garment</b>		<b>Syllabus Version</b>		<b>2023-2024</b>	
<b>Course Objectives:</b>						
The main objectives of this course are to: Educate about various types of trims and accessories used in apparels Teach about the quality requirements						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Distinguish the types of accessories used in garment					K2
CO2	Differentiate the types of fibers used in making sewing and embroidery threads					K3
CO3	Assess the various types of closures used in apparels					K3
CO4	Learn about the various types of trims used					K3
CO5	List out the quality requirements for poly bag and carton box					K2
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						

### **Unit: I Garment Accessories**

**12 hours**

Introduction to garment accessories – Selecting garment accessories- Types of garment accessories: Basic accessories - Decorative accessories - Finishing accessories –Accessories for children's wear - Design development for different accessories- Safety issues for different accessories in children's garment- small parts: choking hazards-Decorative trims and Embellishments.

### **Unit: II Sewing and Embroidery Threads**

**12 hours**

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– Quality requirements – Fibers used for embroidery threads – Quality evaluation of embroidery threads.

### **Unit: III Closures**

**12 hours**

Zippers – Component parts –Types – Application techniques – Quality parameters and testing- Buttons– types – Quality requirements & testing procedures –Elastic – Application techniques – Types – Quality requirements and testing procedures. Drawstrings – Method of application-Quality parameters –



Velcro Method of application techniques – Quality parameters – Snap fastness–Types– Method of application. Quality parameters- Hooks – types– Methods of application –Quality Norms.

**Unit: IV Supporting and Decorative Trims**

**12 hours**

Lining: Importance - Method of application – Quality requirements – Interlining: Importance – Types - Method of application – Quality requirements – Fusing foam: importance– Types– Method of application – Quality requirements – Label and its types – Method application on garment – Quality requirements –Lace – Importance and its types – Quality parameters – Methodof application – Appliqué: Importance –Types of materials– Applique cutting techniques– Application methods– Quality requirements.

Sequins: Introduction about various sequins and their types – Application techniques–Quality requirements.

**Unit: V Packing Accessories**

**12 hours**

Tags and its types –Quality requirements – Polybags and its types-Quality norms pertaining to polybags–Hangers and its types – Cartons and its types – Testing required for apparel export Cartons– Factors to be considered for export cartons – Wrappers and Tissues – Pouches for innerwear–Latest innovation in packing accessories.

**Total Lecture hours -60 hours**

**Text Books**

1. Fashion Apparel Accessories and Home Furnishings, Diamond Professor Emeritus, Jay; Diamond AdjunctFaculty, Ellen., PrenticeHall,2006.
2. Know Your Fashion Accessories, Celia Stall-Meadows, Tana Stuffle bean, Fairchild Books & Visuals, 2003

**Reference Books**

1. Carrand Latham"s Technology of Clothing Manufacture, Edited by David J.Tyler, 2009
2. Apparel Manufacturing Handbook, Analysis, Principles and Practice, Jacob Solinger, Bobbin MediaCorporation, 1988

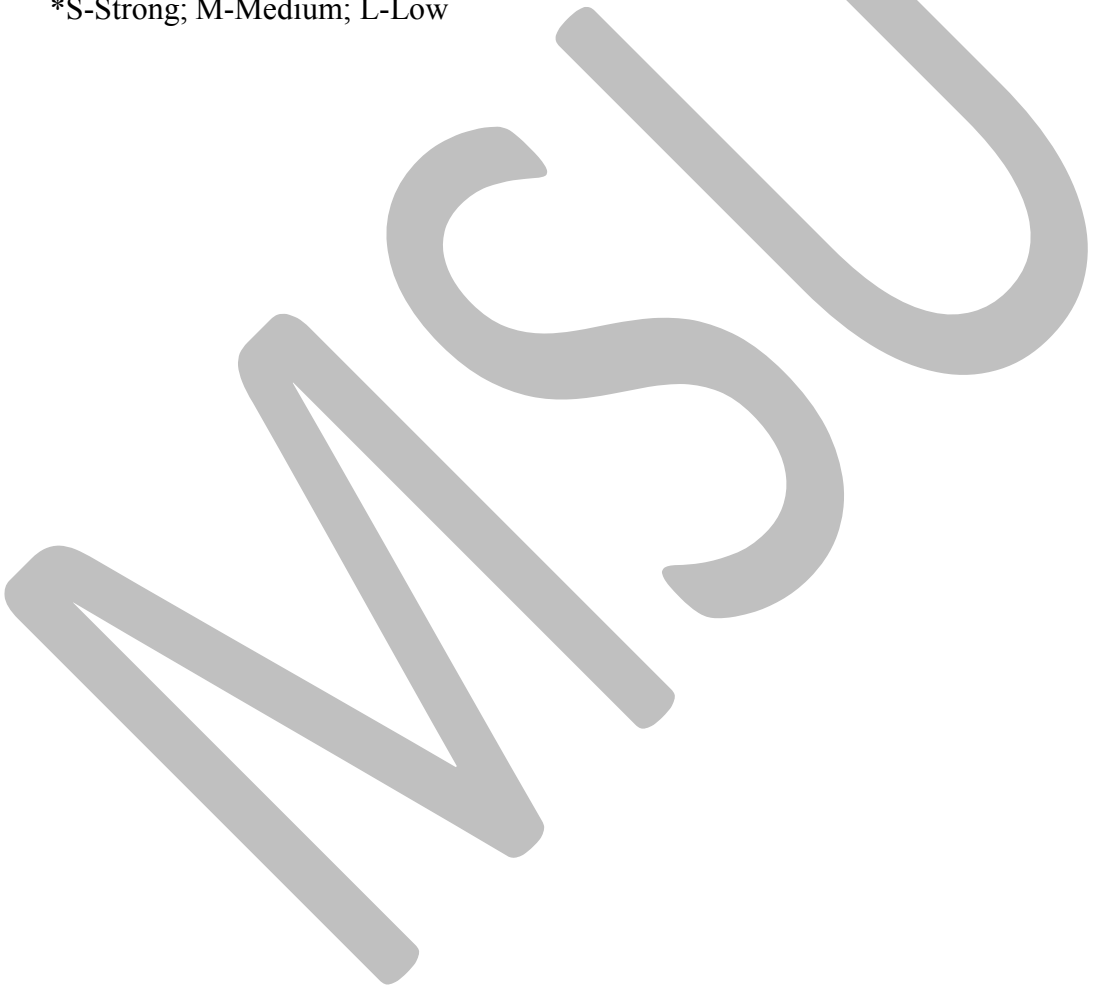
**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1. <https://ordnur.com/textile/list-of-trimmings-and-accessories-use-in-garments/>
2. <https://www.onlineclothingstudy.com/2018/10/the-fusing-technology-fusing-parameters.html>
3. <https://medium.com/@stitchdiary/importance-of-decorative-trims-in-the-garment-industry-3b306e4b59ef>

**LOCF MAPPING**

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	M	S	M	M	L
<b>CO2</b>	S	M	S	M	M	L
<b>CO3</b>	S	M	S	M	M	L
<b>CO4</b>	S	M	S	M	M	L
<b>CO5</b>	S	M	S	M	M	L

\*S-Strong; M-Medium; L-Low



Course code	SURFACE EMBELLISHMENTS PRACTICAL		L	T	P	C
Skill Enhancement Course - 2			-	-	2	2
Pre-requisite	Knowledge in embroidery					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>Inherit embroidery skills by hand and machine</li> <li>Appreciate the beauty and intricacies of the traditional embroideries of India</li> <li>Enhance creativity by the application of smocking</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Create hand embroidery samples				K6	
CO2	Create machine embroidered samples				K6	
CO3	Develop samples using surface enrichment				K3	
CO4	Design and develop samples for drawn thread embroidery ,applique, quilting				K6	
CO5	Create added structural effects using smocking				K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1.Create Hand Embroidery Samples(10stitches and 5samples)</b>					<b>6 hours</b>	
<ul style="list-style-type: none"> <li>Outline stitches</li> <li>Filling stitches</li> <li>Loop stitches</li> <li>Cross stitches</li> </ul>						
<b>2.Create Embroidery Samples Using Machine</b>					<b>6 hours</b>	
<ul style="list-style-type: none"> <li>Running stitch</li> <li>Satin Stitch</li> <li>Granite Stitch</li> <li>Cording</li> <li>Needle cording</li> </ul>						
<b>3.Create the Following Samples</b>					<b>6 hours</b>	
<ul style="list-style-type: none"> <li>Beadwork</li> <li>Sequin work</li> <li>Ribbon embroidery</li> <li>Mirror work</li> <li>Drawn thread work</li> </ul>						
<b>4.CreateSamples with Applique ,Patch work and Quilt (any 2 types)</b>					<b>6 hours</b>	
<ul style="list-style-type: none"> <li>Applique</li> <li>Simple / Geometric patch work</li> <li>Quilting</li> </ul>						
<b>5.CreateSamples with Smocking</b>					<b>6hours</b>	

- French Smocking(any3types)
- Chinese Smocking

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<b>Total Lecture hours</b>		<b>30hours</b>
<b>Text Books</b>		
1	ShailajaDNaik, Traditional Embroideries of India, APH Publishing, 1996	
2	Megan Eckman, Everyday Embroidery for Modern Stitchers, C&T Publishing, 2020	
<b>Reference Books</b>		
1	Libby Moore, Thread Folk: A Modern Makers Book of Embroidery Projects and Artist Collaborations, Paige Tate & Co, 2019	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1	<a href="https://sewguide.csom/smocking/">https://sewguide.csom/smocking/</a>	
2	<a href="https://www.youtube.com/watch?v=Ug2d1NUuE4A">https://www.youtube.com/watch?v=Ug2d1NUuE4A</a>	
3	<a href="https://www.youtube.com/watch?v=uJ2SyeFA_B4">https://www.youtube.com/watch?v=uJ2SyeFA_B4</a>	
4	<a href="https://www.youtube.com/watch?v=nJz9c8gEvFg">https://www.youtube.com/watch?v=nJz9c8gEvFg</a>	

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	L	M	M	M	M
<b>CO2</b>	S	L	M	M	M	M
<b>CO3</b>	S	L	M	M	M	M
<b>CO4</b>	S	L	M	M	M	M
<b>CO5</b>	S	L	M	M	M	M

\*S-Strong; M-Medium; L-Low

Course code	FIBER TO FABRIC PRACTICAL		L	T	P	C
Skill Enhancement Course - 3			-	-	2	2
Pre-requisite	Basic knowledge in textile science					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Identify the type of fibers.</li> <li>2. Test the yarn count and fabric count.</li> <li>3. Test the fabric for the following parameters twist, course length, weight, shrinkage, colour fastness and absorbency</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Distinguish the type of fiber by micro scope, flame test and chemical tests				K1	
CO2	Determine the count of the yarn and fabric				K3	
CO3	Test the fabric for fabric weight and course length of the fabric				K2	
CO4	Evaluate the color fastness and shrinkage of fabric				K5	
CO5	Experiment the absorbency of fabric				K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1. Identification of Textile fibers</b>					<b>10hours</b>	
<ul style="list-style-type: none"> <li>• Microscopic Method</li> <li>• Flame test.</li> <li>• Chemical test</li> </ul>						
<b>2. Testing of Yarn and Fibers</b>					<b>5hours</b>	
<ul style="list-style-type: none"> <li>• Yarn Count using Wrap Reel</li> <li>• Yarn Count using Besley's Balance</li> <li>• Twist of the Yarn</li> </ul>						
<b>3. Testing of Fabric</b>					<b>15hours</b>	
<ul style="list-style-type: none"> <li>• Fabric Weight</li> <li>• Fabric Count by Ravelling Method</li> <li>• Fabric Count with Pick Glass</li> <li>• Course Length and Loop length of Knitted Fabric</li> <li>• Colour Fastness to Washing</li> <li>• Tests of Shrinkage</li> <li>• Tests of Absorbency</li> </ul>						
<b>Total Lecture hours</b>					<b>30hours</b>	
<b>Text Books</b>						
1	Textiles– Fibre to fabric, Corbmann B.P, International students edition, McGraw Hill. Book company, Singapore, 1985.					

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**Reference Books**

1	Identification of Textile Fibers 1 <sup>st</sup> Edition by Max M. Houck, Woodhead Publishing in Textiles, Cambridge, New delhi, 2009.
2	Textile science, Gohi, CBS Publishers and Distributors, India, 2005.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1	<a href="https://textilelearners.com/textile-fibers-identification-process/">https://textilelearners.com/textile-fibers-identification-process/</a>
2	<a href="https://www.textilesphere.com/2020/04/identification-of-textile-fibers.html">https://www.textilesphere.com/2020/04/identification-of-textile-fibers.html</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	M	M	S	S	L
<b>CO2</b>	M	M	M	S	S	M
<b>CO3</b>	M	M	M	S	S	L
<b>CO4</b>	M	M	S	M	S	M
<b>CO5</b>	L	L	S	M	S	L

\*S-Strong; M-Medium; L-Low



**SEMESTER III**

MASU

<b>Course code</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core V</b>		<b>FABRIC STRUCTURE AND DESIGN</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>4</b>
<b>Pre-requisite</b>		<b>Basic knowledge about weaving.</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. To learn the elements of woven design						
2. To study the different types of weave						
3. To understand the draft and lifting plan						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	To classify different types of weaves					K2
CO2	To draw the design, draft and peg plan of weaves.					K6
CO3	To differentiate between different type of weaves					K4
CO4	To construct different types of weaves					K6
CO5	Apply the methods of fabric representation					K3
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Elements of Woven Design</b>					<b>15hours</b>
Elements of woven design, Methods of fabric representation, Draft and lifting plan, Construction Of elementary weaves–plain, warp rib, weft rib, twill, modification of twills, satin and sateen weaves–their derivatives.						
<b>Unit:2</b>	<b>Types of Weaves</b>					<b>15hours</b>
Ordinary and Brighten honey comb, its modification, Huck a back and its modifications, Crepe weaves, Mock leno weave.						

<b>Unit:3</b>	<b>Figured Fabrics</b>	<b>15hours</b>
Extra warp and Extra weft figuring–single and two colours, planting, backed fabric, warp and weft backed fabrics.		
<b>Unit:4</b>	<b>Pile Fabrics</b>	<b>15hours</b>
Pile fabric–Formation of pile–weft pile–plain back, twill back–length, density and fastness of pile–Corduroy weft plush. Warp pile –Terry pile, with the aid of wires, face to face warp pile.		
<b>Unit:5</b>	<b>Double Cloth</b>	<b>75hours</b>
Double cloth–Classification, Self stitched –Face to back, Back to face, Both Centre stitched–warp and weft. Inter changing double cloth.		

**Total Lecture hours**

**60 hours**

### Text Books

- 1 Gokarneshan N, Fabric Structure and Design, New Age International Publishers Ltd, NewDelhi,2004.
- 2 Grosichk Liz Newness, Watson’s Advanced Textile Design, Butter Worths, London,1989.

### Reference Books

- |   |   |
|---|---|
| 1 | Corbman BP, Textiles– Fibre to Fabric, International Students Edition, Mc. Graw Hill book Co, Singapore, 1985 |
|---|---|

### Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

- |   |   |
|---|---|
| 1 | <a href="https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643">https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643</a>           |
| 2 | <a href="https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain">https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain</a> |
| 3 | <a href="http://textilefashionstudy.com/category/fabric-manufacturing-technology-2">http://textilefashionstudy.com/category/fabric-manufacturing-technology-2</a>           |
| 4 | <a href="http://www.warporweft.com/types-of-looms">http://www.warporweft.com/types-of-looms</a>   |

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
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<b>CO1</b>	M	S	M	S	S	S
<b>CO2</b>	M	S	L	S	S	S
<b>CO3</b>	M	S	M	S	S	S
<b>CO4</b>	L	S	M	S	S	S
<b>CO5</b>	L	S	L	S	S	S

\*S-Strong; M-Medium; L-Low

Course code	GARMENT CONSTRUCTION – CHILDREN’S WEAR PRACTICAL			L	T	P	C
<b>Core VI</b>				-	-	3	3
<b>Pre-requisite</b>	<b>Basic knowledge in garment construction</b>						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Design garments for children.</li> <li>2. Impart skills in pattern drafting.</li> <li>3. Construct garments by sewing.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Design garments for child					K6	
CO2	Develop patterns using drafting method					K6	
CO3	Select the necessary tools needed for sewing					K6	
CO4	Construct garments by sewing					K3	
CO5	Discover new techniques in patternmaking and garment construction					K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>1.Design, Draft and Construct the Following Garments for a Child</b>							<b>75hours</b>

Create any THREE out of FIVE each.

**Newborn baby(Unisex)**

- Mittens, Socks/Booties, Disposable Diapers, Onesies body suits, Sleepers (Footer Pyjamas)

**Boy**

- Nightwear, Tank Top, Front open Top, Shorts, Round neck T shirt

**Girl**

- Aline frock , Umbrella frock, Middi Top, Campri, Party Wear-Frock

**Total Lecture hours**

**75hours**

**Text Books**

1 PracticalClothingConstructing-PartIandII,MaryMathews,CosmicPress,Chennai,1986.

2 ZarapkerSystemofCutting-Zarapker.Kltd.R,NavneetPublications,1994.

**Reference Books**

1 Cutting and tailoring Course Gayatri Verma &KapilDev, Computech Publications, 2009.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1 <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>

2 <https://www.youtube.com/watch?v=nI-ShbmnuVg>

3 <https://www.youtube.com/watch?v=LuazkYL0J3A>

4 <https://www.youtube.com/watch?v=zLkNgkzx-wI>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	M	S	S	M	M
<b>CO2</b>	S	M	S	S	M	M
<b>CO3</b>	S	M	S	S	M	M

<b>CO4</b>	S	M	S	S	M	M
<b>CO5</b>	S	M	S	S	M	M

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	<b>BUSINESS STARTUP</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Skill Enhancement Course- 4 (Entrepreneurial skill)</b>				<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>
<b>Pre-requisite</b>	<b>Basic knowledge about Business</b>						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Impart skill in starting a business.</li> <li>2. Gain knowledge about business planning and evaluation.</li> <li>3. Be aware of IPR and copyright.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	To identify pain points, customer problems and develop prototype					K2	
CO2	To identify and evaluate business opportunities					K4	
CO3	To Prepare business plan and identify competitors					K5	
CO4	To plan financial sources					K4	
CO5	To understand IPR, Brand and copyright					K3	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Business startup – An Introduction</b>					<b>3hours</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>Unit:2</b>	<b>Business Ideas and Opportunities</b>	<b>3hours</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>Unit:3</b>	<b>Business Plan</b>	<b>3hours</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>Unit:4</b>	<b>Financial Status and Analysis</b>	<b>3hours</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>Unit:5</b>	<b>Intellectual Property Rights</b>	<b>3hours</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>Total Lecture hours</b>	<b>15 hours</b>
<b>Text Books</b>		

1	Start-up: A Practical Guide to Starting and Running a New Business, Tom Harris, Springer,07-Aug2018
2	Business Model Canvas: A GoodToolwithBadInstructions?RodKing,2017
3	Handbook of Deep Trade Agreements Aaditya Mattoo, Nadia Rocha, Michele Ruta, 2020
4	Entrepreneurship and Local Economic Development a Comparative Perspective on Entrepreneurs, Universities and Governments, 2018
<b>Reference Books</b>	
1	Corbman BP, Textiles– FibretoFabric, InternationalStudentsEdition,Mc.GrawHillbookCo,Singapore, 1985
2	Entrepreneurship and Economic Development, 2010
3	Start Your Own Business, Sixth Edition by The Staff of Entrepreneur Media Selling Your Startup by Alejandro Cremades · 2021
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643">https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643</a>
2	<a href="https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain">https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain</a>
3	<a href="http://textilefashionstudy.com/category/fabric-manufacturing-technology-2">http://textilefashionstudy.com/category/fabric-manufacturing-technology-2</a>
4	<a href="http://www.warporweft.com/types-of-looms">http://www.warporweft.com/types-of-looms</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	S	M	S	S	S
<b>CO2</b>	M	S	L	S	S	S
<b>CO3</b>	M	S	M	S	S	S
<b>CO4</b>	L	S	M	S	S	S
<b>CO5</b>	L	S	L	S	S	S

\*S-Strong; M-Medium; L-Low



<b>Course code</b>		<b>FABRIC STRUCTURE AND DESIGN PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Skill Enhancement Course - 5</b>			-	-	2	2
<b>Pre-requisite</b>	<b>Basic knowledge about fabric structure</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. To identify the different types of weaves and knits</li> <li>2. To analyze the fabric structure</li> <li>3. To understand the woven fabric design and loop structure of knitted fabric</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Draw the design, draft and peg plan of weaves.				K3	
CO2	Understand the weaving components				K4	
CO3	Analyze the design aspects in the weaving pattern				K2	
CO4	Identify loop structures of knits samples				K4	
CO5	Deduct knitting samples by unravel and graphic representation				K5	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Analyze the Following Fabric Structures</b>					<b>20 hours</b>	
<ol style="list-style-type: none"> <li>1. Plain weave and its derivatives <ul style="list-style-type: none"> <li>➤ Warp rib</li> <li>➤ Weft rib</li> </ul> </li> <li>2. Twill Weave <ul style="list-style-type: none"> <li>➤ Right hand twill</li> </ul> </li> </ol>						

➤ Left hand twill	
3. Satin and Sateen	
4. Honeycomb Weave	
5. Huck a Buck Weave	
6. Extra warp figuring	
7. Extra weft figuring	
<b>Identify knitting samples by unravel and graphic representation</b>	<b>10 hours</b>
1. Plain knit	
2. Rib knit (1x1 and 2x2)	
3. Pique	
<b>Total Lecture hours</b>	
<b>30 hours</b>	
<b>Text Books</b>	
1	GokarneshanN, Fabric Structure and Design, New Age International Publishers Ltd, New Delhi, 2004.
2	GrosichkliZNewness, Watson's Advanced Textile Design, Butter Worths, London, 1989.
3	Knitting Manufacture Technology, Anbumani, New Age International, Chennai, 2006
4	Knitting and Apparel technology, S.S.M.I.T Co-operative Society. 2005
<b>Reference Books</b>	
1	CorbmanBP, Textiles–Fibre to Fabric, International Students Edition, Mc.Graw HillbookCo, Singapore, 1985.
2	Knitting Technology, DBA Jgaonker, Universal Publishing Corporation, 1998
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://textilelearner.blogspot.com/2012/07/what-is-fabric-warp-weft-fabric.html">https://textilelearner.blogspot.com/2012/07/what-is-fabric-warp-weft-fabric.html</a>
2	<a href="http://textilefashionstudy.com/category/fabric-manufacturing-technology-2">http://textilefashionstudy.com/category/fabric-manufacturing-technology-2</a>
3	<a href="https://feltmagnet.com/textiles-sewing/How-To-Analyze-A-Woven-Fabric">https://feltmagnet.com/textiles-sewing/How-To-Analyze-A-Woven-Fabric</a>

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<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	S	M	S	S	S
<b>CO2</b>	M	S	M	S	S	S
<b>CO3</b>	L	S	S	S	S	S
<b>CO4</b>	M	S	S	S	S	S
<b>CO5</b>	M	S	S	S	S	S

\*S-Strong; M-Medium; L-Low



**ELECTIVE – III**

<b>Course code</b>		<b>HOME TEXTILES PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective – III (a)</b>			-	-	4	3
<b>Pre-requisite</b>	<b>Basic knowledge in sewing</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Understand the types of home textiles.						
2. Impart knowledge on the application of home textiles.						
3. Design and home textiles.						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Understand the types of home textiles				K2	
CO2	Analyse the parts and functions of home textiles				K4	
CO3	Create designs for types of home textiles and show variations				K6	
CO4	Construct home textiles				K6	
CO5	Apply colour combinations and fabric selection throughout the process				K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1.Preparation of Wall Hangings / Door Hanging (Design / Sketch 5 designs and construct one)</b>					<b>10 hours</b>	
<b>2.Preparation of Home Appliances set (Design / Sketch 5 designs and construct one)</b>					<b>20 hours</b>	
<ul style="list-style-type: none"> <li>Fridge cover, Mixi cover, Television Cover, Toaster Cover, Microwave Oven Cover</li> </ul>						
<b>3.Preparation of pillow cover (Design / Sketch 5 designs and construct one)</b>					<b>15 hours</b>	
<ul style="list-style-type: none"> <li>Pillow Cover with Surface Embellishment</li> </ul>						
<b>4. Preparation of Curtains and Draperies (Design / Sketch 5 designs and construct one)</b>					<b>15 hours</b>	
<b>Total Lecture hours</b>					<b>60 hours</b>	
<b>Text Books</b>						
1	Home Textiles, T Karthik and D Goplal Krishnan, Daya Publishing House, 2018					
2	Home Furnishing, V. Ramesh Babu and S. Sundaresan, Woodhead Publishing India, 2018					
<b>Reference Books</b>						
1	Interior decorating effects, Stewart and Sally Walton, Lorenz books, 2000					
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>						
1	<a href="https://lunaweddingandeventsupplies.com.au/blogs/news/types-of-tablecloth">https://lunaweddingandeventsupplies.com.au/blogs/news/types-of-tablecloth</a>					
2	<a href="https://valenciaextension.nmsu.edu/documents/housing--interior-design-id.pdf">https://valenciaextension.nmsu.edu/documents/housing--interior-design-id.pdf</a>					

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
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CO1	M	M	S	S	S	M
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<b>CO2</b>	M	S	M	S	S	S
<b>CO3</b>	L	M	S	M	M	S
<b>CO4</b>	M	M	S	S	M	S
<b>CO5</b>	L	M	S	M	L	S

\*S-Strong; M-Medium; L-Low

Course code	ORNAMENTS AND ACCESSORY MAKING PRACTICAL				L	T	P	C
Elective – III (b)					-	-	4	3
Pre-requisite	Familiar with types of ornaments and accessories						2020-2021	
<b>Course Objectives:</b>								
The main objectives of this course are to:								
<ol style="list-style-type: none"> <li>To create and develop ornaments and accessories.</li> <li>To design ornaments and accessories for various occasion.</li> </ol>								
<b>Expected Course Outcomes:</b>								
On the successful completion of the course, student will be able to:								
1	Develop new accessories with fabrics						K6	
2	Understand new techniques of creating ornaments.						K2	
3	Discover new ideas of creating ornaments and accessories.						K3	
4	Create a complete set of ornaments for bridal and other special dress						K6	
5	Organize items need for creating accessories and ornaments efficiently						K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>								
<b>Create the Following Accessories with Fabric.</b>							<b>20 hours</b>	
<ul style="list-style-type: none"> <li>Handbag / cellphone pouch</li> <li>Shawls /Stole</li> <li>Belt for men and women</li> <li>Mask and Gloves</li> </ul>								
<b>Create the following ornaments.</b>							<b>30 hours</b>	
<ul style="list-style-type: none"> <li>Return Gifts-Potli</li> <li>Files (Sustainable)</li> </ul>								
<b>Create set of ornaments to suit a dress.</b>							<b>10 hours</b>	
<ul style="list-style-type: none"> <li>Set of ornaments for bridalwear / fashion show/ office wear/ casual wear/ dance costumes.</li> </ul>								
<b>Record Notebook</b> – Fix photographs of the items created and explain the details of materials used and the method of construction								
<b>Total Lecture hours</b>							<b>60 hours</b>	

**Text Books**

1 Jewellery Making, A Complete Course for Beginners, Jinks McGrath, Apple Press, 2007



2	The Workbench Guide to Jewellery Techniques, Anastasia Young, Thames and Hudson, 2010
<b>Reference Book</b>	
1	The Bag Making Bible: The Complete Creative Guide to Sewing Your Own Bags - Lisa Lam, Amy Butler, Published by David & Charles, 2010
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.youtube.com/watch?v=pdwJZZSUjfs">https://www.youtube.com/watch?v=pdwJZZSUjfs</a>
2	<a href="https://www.youtube.com/watch?v=4jNCJm3j0ec">https://www.youtube.com/watch?v=4jNCJm3j0ec</a>
3	<a href="https://www.youtube.com/watch?v=RehISbeKeMo">https://www.youtube.com/watch?v=RehISbeKeMo</a>
4	<a href="https://www.youtube.com/watch?v=bpjpvxos200">https://www.youtube.com/watch?v=bpjpvxos200</a>
5	<a href="https://www.youtube.com/watch?v=7OTfnxojulM">https://www.youtube.com/watch?v=7OTfnxojulM</a>

<b>Mapping with Programme Outcomes</b>										
<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>P10</b>
<b>CO 1</b>	S	S	S	S	M	L	L	M	M	S
<b>CO 2</b>	S	S	S	S	M	M	L	M	L	S
<b>CO 3</b>	S	S	S	S	M	M	L	M	L	S
<b>CO 4</b>	S	S	S	S	S	S	S	S	M	S
<b>CO 5</b>	M	L	L	L	M	M	L	S	M	S

\*S-Strong; M-Medium; L-Low

MASU

**SEMESTER IV**

<b>Course code</b>		<b>INDUSTRIAL GARMENT MACHINERIES</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core VII - Industry Module</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>4</b>
<b>Pre-requisite</b>		<b>Basic knowledge about garment manufacturing machineries</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Gain knowledge of the industrial practices in all the stages of garment manufacturing.</li> <li>2. Familiarize with the techniques and technology adopted in the garment industry.</li> <li>3. Gain familiarity with the federal standards of stitch and seam classification.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Under stand the stitching mechanism					K2
CO2	Relate to the cutting and spreading methods in industries					K1
CO3	Connect to the industrial marking and pressing methods					K4
CO4	Analyze the type of sewing machines and its functions					K4
CO5	Classify stitches and seams according to the federal standard					K2
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						

<b>Unit:1</b>	<b>Stitching Mechanism</b>	<b>15hours</b>
<p>Stitching mechanism Needles, bobbin and bobbin case, bobbin winding, loops and loop Spreader, upper and lower threading, auxiliary hooks, throat plates, take ups, tension discs upper and lower thread tension, stitching auxiliaries, pressure foot and its types, Feed mechanisms- drop feed, differential fed, needle feed, compound feed, unison feed, puller feed.</p>		
<b>Unit:2</b>	<b>Cutting and Spreading Methods</b>	<b>15hours</b>
<p>Spreading – Types of spread and its quality, parts and functions of spreading equipment, spreading methods.  Marking methods, positioning marking types of markers, efficiency of a marker plan, requirements of marker planning</p>		
<b>Unit:3</b>	<b>Marking and Pressing Methods</b>	<b>15 hours</b>
<p>Cutting equipment– Parts and functions of Straight knife cutting machine, rotary cutting machine, band knife cutting machine, die cutters.  Pressing–purpose, pressing equipment’s and methods– iron, steam press, steam air finisher, steam tunnel, special types– pleating, permanent</p>		
<b>Unit:4</b>	<b>Sewing Machineries</b>	<b>15hours</b>
<p>Sewing Machineries - Classification of sewing machines, parts and functions of Single Needle lockstitch machine, over edging machine, Chain stitch machines, bar tacking machine, button hole machine, button fixing machine, blindstitching machine, fabric examining machine.  Special attachments, care and maintenance of sewing machines, Common problems and remedies</p>		
<b>Unit:5</b>	<b>Packaging, Sewing Threads, Stitches and Seams</b>	<b>15hours</b>
<p>Garment Packaging–Types of package forms, Sewing threads -types, essential qualities of a sewing thread, Federal standards for stitch and stitch classification, Federal standards for seam and seam classification.</p>		

	<b>Total Lecture hours</b>	<b>75 hours</b>
<b>Text Books</b>		
1	The Technology of Clothing Manufacture –Harold Carrand Barbara Latham, Blackwell Science,1994.	
2	Apparel Manufacturing Handbook: Analysis, Principles and Practice 2 <sup>nd</sup> Edition–Jacob Solinger, Bobbin Blenheim MediaCorp,1988.	
<b>Reference Books</b>		
1	Reader’s digest Sewing guide, Complete Guide to Sewing 13 <sup>th</sup> Edition, The Reader’s Digest Association Inc, PleasantVille,1997.	
2	A complete guide for sewing–ColesMSew,HeinemannProfessionalPublishing,Singapore,1977.	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1	<a href="https://clothingindustry.blogspot.com/2018/04/packaging-process-garment-industry.html">https://clothingindustry.blogspot.com/2018/04/packaging-process-garment-industry.html</a>	
2	<a href="https://www.youtube.com/watch?v=palmFFnMT1E">https://www.youtube.com/watch?v=palmFFnMT1E</a>	
3	<a href="https://www.youtube.com/watch?v=67K0RMJVB_U">https://www.youtube.com/watch?v=67K0RMJVB_U</a>	
4	<a href="https://www.youtube.com/watch?v=HIBcn9Igirc">https://www.youtube.com/watch?v=HIBcn9Igirc</a>	
5	<a href="https://www.youtube.com/watch?v=QOofEoJQyro">https://www.youtube.com/watch?v=QOofEoJQyro</a>	

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	L	M	S	S	M
<b>CO2</b>	M	L	M	S	S	M
<b>CO3</b>	M	L	M	S	S	M
<b>CO4</b>	M	L	M	S	S	M
<b>CO5</b>	S	L	M	S	S	M

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	<b>TEXTILE WET PROCESSING</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core VIII</b>				<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Basic knowledge in textile finishing</b>						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Prepare the fabric for finishing.</li> <li>2. Dye and print the fabrics using suitable dyes and prints.</li> <li>3. Prepare on Effluent and its impact</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Familiarize with the Process sequence in a textile industry						K2
CO2	Explain the types of finishes						K1
CO3	Discover the dyes and dyeing methods						K3
CO4	Understand the various printing methods						K2
CO5	Analyze the pollution created by the textile industry and the need for effluent treatment						K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Typical sequence of process wet processing</b>						<b>15hours</b>
Typical sequence of process Singeing – Objectives and Types – Machines. Desizing – objects, types. Scouring – Objectives 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, Mercerisation- Theory process, Methods – Chain and Chainless process.							
<b>Unit:2</b>	<b>Dyes and Dyeing Machines</b>						<b>15hours</b>

Dyes–classification and suitability of dyes to the fabric, stages of dyeing– fiber, yarn, fabric and garment dyeing, Natural dyes and its significance.

Dyeing machines–loose stock fiber bale–hank package–jigger–winch–HT &HP Beam, jet–Padding mangles. Garment dyeing machines.

<b>Unit:3</b>	<b>Textile Finishes</b>	<b>15hours</b>
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Aesthetic finish– glazed, Moiré, embossed, napped finish. Functional finish– Water repellent, flame retardant, antistatic finish.

Special purpose finish–fragrance, antibacterial, stonewash and enzyme wash in denim Recent trends- An introduction Microencapsulation and nano finishes.

<b>Unit:4</b>	<b>Printing</b>	<b>15hours</b>
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Printing – definition differentiate dyeing and printing. Essential ingredients used in printing paste. Basic styles of printing – Direct, Discharge, and Resist style, Printing of Cellulose Fabric, Printing of wool and silk, Printing of Polyester and Nylon.

<b>Unit:5</b>	<b>Printing methods</b>	<b>15hours</b>
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Printing methods – Stencil, Batik, Block, tie and Dye. Printing techniques in Industries – Screen-Hand screen, Flat Screen, Rotary Screen, Transfer Printing, Flock printing, Photo Printing etc

	<b>Total Lecture hours</b>	<b>75 hours</b>
<b>Text Books</b>		
1	Textile Chemistry, Paters R.H, Elsevier Publishing,1967.	
2	Technology of Textile Processing, ShenaiV.A.,Sevakpublications,Bombay,1981.	
3	Textile Finishing, Shenai.V.A.SevakPublications,Mumbai,1999.	
<b>Reference Books</b>		
1	Functional Finishes, Menachem Lewin and Stephen B.Sello, Marcel Dekker,Inc.,1984.	
2	Textile Finishing, R.S.Prayag, ShreeJ Printers,India,1994.	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1	<a href="https://textilecourse.blogspot.com/2018/08/working-process-printing-">https://textilecourse.blogspot.com/2018/08/working-process-printing-</a>	
2	<a href="http://www.neoakruthi.com/blog/etp-for-textile-industry.html">http://www.neoakruthi.com/blog/etp-for-textile-industry.html</a>	
3	<a href="https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html">https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html</a>	
4	<a href="https://www.textileschool.com/343/fabric-wet-processing-techniques/">https://www.textileschool.com/343/fabric-wet-processing-techniques/</a>	
5	<a href="https://www.fibre2fashion.com/industry-article/1699/special--finishes-to-garment-an-overview">https://www.fibre2fashion.com/industry-article/1699/special--finishes-to-garment-an-overview</a>	

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	M	S	S	S	L
<b>CO2</b>	M	S	S	S	M	S
<b>CO3</b>	M	S	M	M	S	S
<b>CO4</b>	M	S	S	S	S	S
<b>CO5</b>	L	L	S	M	M	L

\*S-Strong; M-Medium; L-Low



Course code	TEXTILE DYEING AND PRINTING PRACTICAL			L	T	P	C
Skill Enhancement Course - 6				-	-	2	2
Pre-requisite	Basic knowledge in dyeing and printing						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Prepare the fabric for dyeing and printing.</li> <li>2. Dye the fabric using suitable dyes.</li> <li>3. Print the fabrics with direct and resist printing methods.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Modify the fabric properties by desizing, bleaching, scouring, and mercerizing					K2	
CO2	Apply and use direct, reactive, vegetable and vat dye to the cotton fabric					K1	
CO3	Apply acid and basic dye to silk fabric					K3	
CO4	Analyze print designs with direct printing method—block and stencil					K4	
CO5	Create print designs with resist printing—Tie and dye/batik					K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>1.Preparation of Samples for Processing</b>							<b>10hours</b>
<ul style="list-style-type: none"> <li>• Desizing</li> <li>• Scouring</li> <li>• Mercerizing</li> <li>• Bleaching</li> </ul>							
<b>2.DyetheGiven Fabric Using Suitable Dye</b>							<b>10hours</b>

- Direct Dye
- Basic Dye
- Acid Dyes
- Reactive Dyes
- Vegetable Dyes(anyone)

**3.Print the Fabric Using Suitable Dyes /Pigments** **10hours**

- Block Printing–Wooden and Vegetable Blocks
- Stencil Printing
- Tie and Dye(use any three dyeing methods)
- Batik Printing

**Total Lecture hours** **30hours**

**Text Books**

1 | An Introduction to Textile Finishing, Marsh.J.T,Chapmanandhall Ltd,London,1948.

2 | ShenaiV.A.,TechnologyofTextileProcessing,Vol.III,V,VI,VIISevakpublications,  
Bombay,1981.

**Reference Books**

1 | SimpletextiledyeingandPrinting,NoraProud,BatsfordPublisher,London,1974.

2 | ScienceandtechnologyofTextileDyeingandColouring,S.P.Mishra,NewAgeInternational(p)Lt  
D Publishers, 2016.

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

<https://www.youtube.com/watch?v=whm0UxZ9gnQ>

<https://www.hamstech.com/blog/significance-of-dyeing-printing-in-fashion-designing/>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	M	S	S	S	M
<b>CO2</b>	M	S	M	S	S	S
<b>CO3</b>	L	M	S	M	M	S
<b>CO4</b>	M	M	S	S	M	S
<b>CO5</b>	L	M	S	M	L	S

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	<b>COMPUTER AIDED DESIGN I PRACTICAL</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Skill</b>				-	-	2	2
<b>Enhancement Course - 7</b>							
<b>Pre-requisite</b>	<b>Basic knowledge on computers</b>						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Enable the students to design garment designs using computers.</li> <li>2. Try various colour combinations and textural effects.</li> <li>3. Create and manipulate fashion figures for various garment designs.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Understand and practice the tools and techniques of the CAD					K2	
CO2	Apply the skills in area of garment designing					K3	
CO3	Develop various colours and textures in computers					K6	
CO4	Create garment designs for child, man and woman with CAD					K6	

CO5	Create Jewellery designs using CAD	K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
<b>1.Creating Small Designs /Motifs</b>		<b>9hours</b>
<ul style="list-style-type: none"> <li>• Designs for Handkerchief</li> <li>• Neckline Designs</li> <li>• Embroidery Designs</li> <li>• Chest Prints for T-shirts</li> </ul>		
<b>2.Create anyone Children garment design from the following list</b>		<b>7hours</b>
<ul style="list-style-type: none"> <li>• Baba Suit</li> <li>• Frock</li> <li>• Jabla</li> </ul>		
<b>3.Createany one Women garment design from the following list</b>		<b>7hours</b>
<ul style="list-style-type: none"> <li>• Gown/Maxi</li> <li>• Salwar Kameez</li> <li>• Blouse</li> <li>• Lehangas</li> </ul>		
<b>4.Createany one Men garment design from the following list</b>		<b>7hours</b>
<ul style="list-style-type: none"> <li>• T-Shirt with Bermuda</li> <li>• Shirt and Pant</li> <li>• Kurta Pyjama</li> </ul>		
<b>Total Lecture hours</b>		<b>30hours</b>
<b>Text Books</b>		
1	Fashion Design Drawing & Presentation, Ireland PatrickJohn, BTBatsford Ltd, 2006.	
2	Fashion Design Illustration:Children,IrelandPatrickJohn,BTBatsfordLtd,2003.	

**Reference Books**

1	FashionSketchBook,BinaAbling,FairChildPublication,NewYork,2006.
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**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

1	<a href="https://www.youtube.com/watch?v=iX7O4fNQijA">https://www.youtube.com/watch?v=iX7O4fNQijA</a>
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2	<a href="https://www.youtube.com/watch?v=8pmgi7q3Gbo">https://www.youtube.com/watch?v=8pmgi7q3Gbo</a>
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3	<a href="https://www.youtube.com/watch?v=x8BsIME4gi4">https://www.youtube.com/watch?v=x8BsIME4gi4</a>
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<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	S	S	M	M	M
<b>CO2</b>	M	S	M	S	S	S
<b>CO3</b>	S	M	L	M	M	M
<b>CO4</b>	S	S	S	L	M	L
<b>CO5</b>	M	M	L	M	S	S

\*S-Strong; M-Medium; L-Low

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**ELECTIVE – IV**

<b>Course code</b>		<b>DRAPING PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective –IV (a)</b>			-	-	<b>3</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Basic knowledge on computers</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Teach the basics prepare the body forms and fabrics for draping.</li> <li>2. Create patterns for basic bodice and skirts using draping method.</li> <li>3. Create patterns for yokes and collars using draping method.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Discover and mark the important structural lines in a dummy form				K3	
CO2	Analyse the fabric, straighten the fabric ends and remove the creases				K4	
CO3	Create draped patterns for basic bodice blocks and skirt				K6	
CO4	Create draped patterns for types of yokes				K6	
CO5	Create draped patterns for types of collars				K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1.Preparation of Body Forms</b>						<b>8 hours</b>
<ul style="list-style-type: none"> <li>• Mark the Chest Line with Style Tape</li> <li>• Mark the Empire/Under Chest Line with Style Tape</li> <li>• Mark the Waist line with Style Tape</li> <li>• Mark the Hip Line with Style Tape</li> </ul>						
<b>2.Preparation of Fabric</b>						<b>8 hours</b>
<ul style="list-style-type: none"> <li>• Remove creases by ironing the fabric.</li> <li>• Straighten the fabric</li> </ul>						
<b>3.Drape the Following Patterns</b>						<b>9 hours</b>
<ul style="list-style-type: none"> <li>• Draping of Bodice Front</li> <li>• Draping of Bodice Back</li> <li>• Draping of Skirt with fulness</li> </ul>						
<b>4.Drape the Following Yokes</b>						<b>10 hours</b>

<ul style="list-style-type: none"> <li>• Simple Yoke</li> <li>• Yoke with Fullness within the Yoke Shirt Yoke</li> <li>• Midriff Yoke</li> </ul>	
<b>5.Drape the Following Collars</b>	<b>10 hours</b>
<ul style="list-style-type: none"> <li>• Peter Pan Collar</li> <li>• Mandarin Collar / Shirt Collar</li> <li>• Shawl Collar/Convertible Collar</li> </ul>	
	<b>Total Lecture hours</b>
	<b>45 hours</b>
<b>Text Books</b>	
1	Draping for Apparel Design,3rdEdition-Helen Joseph and Armstrong, Blooms bury Academic, 2013
2	The Art of Fashion Draping, Connie Amaded and Crawford, Blooms bury Academic, 2018

<b>Reference Books</b>	
1	The Art of Fashion Draping, Connie Crawford, Bloomsbury Publishing India Private Limited, 2007
2	Draping for Fashion Design, Hilde Jaffe, Prentice Hall,2000.
3	Draping for Apparel Design, Helen Joseph and Armstrong, Blooms buryAcademic,2008.
4	Draping for Fashion Design, Hilde Jaffe and Nurie Relis, Pearson/PrenticeHall,2005.
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.youtube.com/watch?v=hAvjXU9xrOM">https://www.youtube.com/watch?v=hAvjXU9xrOM</a>
2	<a href="https://www.youtube.com/watch?v=BhG9Sp3UutI">https://www.youtube.com/watch?v=BhG9Sp3UutI</a>
3	<a href="https://www.moodfabrics.com/blog/intro-to-draping-dress-form-muslin-basics/">https://www.moodfabrics.com/blog/intro-to-draping-dress-form-muslin-basics/</a>
4	<a href="https://fitnyc.libguides.com/fashiondesign/draping">https://fitnyc.libguides.com/fashiondesign/draping</a>
5	<a href="https://www.youtube.com/watch?v=-Hriguv4RA">https://www.youtube.com/watch?v=-Hriguv4RA</a>

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	S	L	S	S	M
CO2	S	S	L	S	S	M
CO3	S	S	L	S	S	M
CO4	S	S	L	S	S	M
CO5	S	S	L	S	S	M

\*S-Strong; M-Medium; L-Low



Course code	DESIGN PROCESS AND PRODUCT DEVELOPMENT PRACTICAL		L	T	P	C
Elective –IV (b)			-	-	3	3
Pre-requisite	Basic knowledge on garment presentation					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Understand the designing process.</li> <li>2. Give ideas on developing a product.</li> <li>3. Enable students to know sequence of steps involves in product development.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Remember general principles of design				K1	
CO2	Understand the design process				K2	
CO3	Apply the techniques garment designing in product development				K3	
CO4	Evaluate the garment outfit.				K4	
CO5	Create ready to wear and haute couture outfits				K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Prepare ready to wear outfit and haute couture</b>					<b>45 hours</b>	
<b>Instructions</b>						
<ul style="list-style-type: none"> <li>• The students should prepare Two ready to wear outfits and one haute couture outfit based on chosen theme for Kids, Men and Women’s wear</li> <li>• It is mandatory for students to prepare product development record for their examination.</li> <li>• The product and record will be evaluated by a Team of Internal &amp; External Experts.</li> <li>• This will be followed by the Viva-Voce.</li> </ul>						
					<b>Total Lecture hours</b>	
					<b>45 hours</b>	
<b>Text Books</b>						
1	Fashion Design and Product development, Harold Carr, John Pomeroy, Blackwell Publication,199 2.					
2	Portfolio design+Presentation, AnnaKiper, Batas ford publications, 2014.					
3	Portfolio presentation for fashion designers, Linda Tain,FairchildPublishers,2010.					
<b>Reference Books</b>						
1	PortfolioManagement,S. Kevin,Prenticehall ofIndia,PHIpublications, 2006.					
2	DesignwithColor:The designguidetoover1000colorcombination,Alles,Jeanne,ChronicleBooks, 1992.					
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>						
1	<a href="https://youtu.be/HEsmu45SKv4">https://youtu.be/HEsmu45SKv4</a>					
2	<a href="https://youtu.be/buERDxlBn8w">https://youtu.be/buERDxlBn8w</a>					

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	S	S	L	L	S

<b>CO2</b>	M	M	S	L	L	S
<b>CO3</b>	S	S	S	L	M	S
<b>CO4</b>	M	L	S	M	L	S
<b>CO5</b>	S	L	S	M	L	S

\*S-Strong; M-Medium; L-Lo

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**SEMESTER V**

<b>Course code</b>		<b>COSTUMES AND TEXTILES OF INDIA</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core IX</b>			<b>5</b>	<b>-</b>	<b>-</b>	<b>4</b>
<b>Pre-requisite</b>		<b>Basic knowledge on costumes and Indian states</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Impart knowledge and understanding of the diverse and valuable traditional Indian textiles.</li> <li>2. Appreciate the various styles of traditional Indian costumes.</li> <li>3. Value the beauty and intricacy of the Indian Jewelleries and embroideries.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Discover the beginning and origin of costumes					K2
CO2	Recognize the dyed and printed textiles of India					K1
CO3	Compare and contrast the various costumes of India					K4
CO4	Appraise the jewelries of India					K5
CO5	Value the traditional embroideries of India					K3
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Origin and Growth of Costume</b>					<b>15 hours</b>
Beginning and growth of Costume Painting, Cutting and Tattooing. Ancient costumes– Indus valley civilization, Vedic period, Maurya period, Mughal period. Costumes of India-pre and post independence era						
<b>Unit:2</b>	<b>Dyed and Printed Textiles of India</b>					<b>15 hours</b>

Study of dyed and printed textiles of India –Bhandhani, Patola ,ikkat, kalamkari- in all the above types and techniques used. Study of woven textiles of India – Dacca Muslin, Banarasi/ Chanderi brocades, Baluchar, Himrus and Amrus, Kashmir shawls, Pochampalli, silk sarees of Kancheepuram.		
<b>Unit:3</b>	<b>Traditional Costumes of India</b>	<b>15hours</b>
Traditional Costume of different States of India- TamilNadu,Kerala,AndhraPradesh,Karnataka,Assam,Orissa,WestBengal,Maharashtra,Rajasthan,Utt arPradesh, Jammu and Kashmir, Gujarat.		
<b>Unit:4</b>	<b>Indian Jewellery</b>	<b>15hours</b>
Indian Jewellery – Jewellery used in the period of Indus valley civilization, Mauryan period, the Pallava and Chola Period, Symbolic Jewellery of South India, Mughal period. Temple Jewellery Of South India, Tribal jewellery		
<b>Unit:5</b>	<b>Traditional Embroideries of India</b>	<b>15 hours</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.		
		<b>Total Lecture hours</b>
		<b>75 hours</b>

<b>Text Books</b>	
1	The costumes and textiles of India–Jamila Brij Bhushan,D BTaraporevalaSons &Co,Bombay,1958.
2	IndianCostume–G.S.Ghurye,PopularPrakashanPvtLtd,India,1967.
3	Indian Jewellery–M.LNigam,LustrePress PvtLtd,India,1999.
4	Traditional Embroideries ofIndia–ShailajaD.Naik,APHPublishing,India,1996.
<b>Reference Books</b>	

*1	Costumes of India–Dorris Flynn,Oxford&IBHPublishingCo,Delhi,1971.						
2	Costumes of India and Pakistan–Das S.N,DBTaraporevalaSonsandco,Bombay,1956.						
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>							
1	<b>C03</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
2	<b>C01</b>	M	M	M	L	M	S
3	<b>C02</b>	M	S	M	M	M	S
	<b>C03</b>	M	S	L	L	L	S
	<b>C04</b>	L	M	M	M	L	S
	<b>C05</b>	M	S	M	M	M	S

Strong; M-Medium; L-Low

<b>Course code</b>		<b>GARMENT QUALITY ANDCOST CONTROL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core X</b>			<b>5</b>	<b>-</b>	<b>-</b>	<b>4</b>
<b>Pre-requisite</b>	<b>Basic knowledge on garment and quality</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. To learn the concepts of garment quality control</li> <li>2. To study the different quality management systems</li> <li>3. To know about different quality process</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Define and establish quality standards					K2
CO2	Describe functions of quality control					K1
CO3	Analyze on garment cost and cost control					K4
CO4	Appraise on different quality management systems					K4
CO5	Evaluate the quality based on the parameters					K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Quality Control and its Standards</b>					<b>15hours</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>Unit:2</b>	<b>Functions of Production Control</b>	<b>15hours</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 systems		
<b>Unit:3</b>	<b>Functions of Cost Control</b>	<b>15hours</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–charts.		
<b>Unit:4</b>	<b>Quality Management</b>	<b>15 hours</b>
Quality – Evolution of Quality management – Quality function and quality planning –Basic concepts of Total Quality Management (TQM) – Principles of TQM – Quality Trilogy –Four pillars of TQM –PDC A cycle & PDS A cycle–Kaizanconcept–5“SPhilosophy–Qualitycircles.		
<b>Unit:5</b>	<b>Environmental Management System</b>	<b>15hours</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.		



		<b>Total Lecture hours</b>	<b>75 hours</b>
<b>Text Books</b>			
1	Apparel Manufacturing Analysis, Solinger, Jacob, New York, Textiles books, 1961.		
2	Managing Quality In The Apparel Industry, Pradip V Mehta, Sathish K Bhardwaj, New Age International, 1998		
<b>Reference Books</b>			
1	Apparel manufacturing handbook, analysis Principles and Practice, Solinger, Jacob, Columbia media corp, 1988.		
2	Quality Control Handbook, J.M. Juran, publications McGraw-Hill Education, 1988.		
3	Total Quality Management, Basker S, Anuradha Publications, Kumbakonam, 2017.		
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>			
1	<a href="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</a>		
2	<a href="https://www.fibre2fashion.com/industry-article/3055/quality-systems-for-garment-">https://www.fibre2fashion.com/industry-article/3055/quality-systems-for-garment-</a>		
3	<a href="https://onlinegarmentsacademy.blogspot.com/2019/07/quality-control-of-apparel-industry.html">https://onlinegarmentsacademy.blogspot.com/2019/07/quality-control-of-apparel-industry.html</a>		
4	<a href="https://www.sciencedirect.com/science/article/pii/B9781782422327000163">https://www.sciencedirect.com/science/article/pii/B9781782422327000163</a>		
5	<a href="https://www.textileschool.com/488/quality-control-in-garment-manufacturing/">https://www.textileschool.com/488/quality-control-in-garment-manufacturing/</a>		

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	M	M	S	S	M
<b>CO2</b>	S	M	S	M	S	L
<b>CO3</b>	M	M	M	S	M	M
<b>CO4</b>	S	S	M	S	M	M
<b>CO5</b>	M	S	S	L	M	L

\*S-Strong; M-Medium; L-Low

MSU

Course code	GARMENT CONSTRUCTION – ADULT WEAR PRACTICAL		L	T	P	C
Core XI			-	-	5	4
Pre-requisite	Basic knowledge about sewing machine and construction.					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Design garments for women and men</li> <li>2. Impart skills in pattern drafting</li> <li>3. Construct garments by sewing</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Design garments for women and men				K6	
CO2	Develop patterns for women and men using drafting method				K1	
CO3	Select the necessary tools needed for sewing				K2	
CO4	Construct garments by sewing				K4	
CO5	Discover new techniques in patternmaking and garment construction				K5	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1.Design,Draftandconstruct the following garments for a Woman (Minimum 4 garments)</b>					<b>45hours</b>	
<ul style="list-style-type: none"> <li>• Kurthi</li> <li>• Palazzo</li> <li>• Maternity Wear</li> <li>• Nightie</li> <li>• Blouse</li> </ul>						
<b>2.Design, Draft and construct the following garments for a Man (Minimum 3garments)</b>					<b>30hours</b>	

<ul style="list-style-type: none"> <li>• Bermuda</li> <li>• TShirt</li> <li>• NehruKurta</li> <li>• Pyjama</li> <li>• SlackShirt</li> <li>• Pant</li> </ul>	
<b>Total Lecture hours</b>	
<b>75hours</b>	
<b>Text Books</b>	
1	PracticalClothingConstructing-PartIandII, MaryMathews, CosmicPress, Chennai, 1986.
2	ZarapkerSystemofCutting-Zarapker.K.R, NavneetPublicationsltd, India, 2011.
<b>Reference Books</b>	
1	Cutting and sewing theory, Gayatri Verma, Kapil Dev, ComputechPublicationLtd, India, 2019.
2	Pattern cutting and making up, the professional approach, Martin M. Shoben and Janet P. Ward, Rout Ledge Taylor and Francis Group, London and NewYork, Revisededition, 2011.
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827">http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</a>
2	<a href="https://www.youtube.com/watch?v=FsD-Pc9WPm0">https://www.youtube.com/watch?v=FsD-Pc9WPm0</a>
3	<a href="https://www.youtube.com/watch?v=rJf5Jlpt8j4">https://www.youtube.com/watch?v=rJf5Jlpt8j4</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	S	M	S	M	L
<b>CO2</b>	S	S	L	M	L	L
<b>CO3</b>	S	L	S	S	M	M
<b>CO4</b>	S	M	M	S	M	M
<b>CO5</b>	M	M	S	S	M	L

\*S-Strong; M-Medium; L-Low

<b>Course code</b>		<b>PROJECT WITH VIVA –</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core XV</b>		<b>PORTFOLIO DEVELOPMENT</b>	-	-	<b>6</b>	<b>4</b>
<b>Pre-requisite</b>	<b>Basic knowledge on garment designing</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Create garment collection based on an inspiration/ theme</li> <li>2. Search and find out exclusive fabrics and accessories for the garment collection</li> <li>3. Present the garment collection in the form of a portfolio album</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Design garment collection based on an inspiration/theme					K6
CO2	Develop various boards like theme board, moodboard, storyboard, colourboard, fabric swatch board, pattern board and flat pattern					K6
CO3	Select suitable fabrics and accessories for the garment collection					K5
CO4	Create a port folio album					K6
CO5	Compile and present the portfolio effectively					K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						

<b>Fashion Design Portfolio–An Introduction</b>	
A fashion design portfolio is a collection of samples put together by a fashion designer to show off his or her skills to a prospective employer or fashion school. A typical fashion design portfolio should include fashion illustrations, an inspiration or moodboard with textile swatches, flat sketches manually or with computer.	
<b>Instructions to the Student</b>	
Every Student will be assigned a Guide and the student should report to the guide at least once in a week. The student should work on an inspiration and develop sketches. After the approval from the Guide, the fabrics must be purchased and converted into a garment. Minimum of 2 garments has to be created. The garment collection is then photographed on a live model. Portfolio(Manual / Digital) is created	
<b>Details of the Portfolio</b>	
The Portfolio must be created as an album/book/Magazine and should contain the following boards	
<ul style="list-style-type: none"> <li>• Customer Profile</li> <li>• Inspiration/Theme Board</li> <li>• Mood Board/Story Board</li> <li>• Colourboard/Swatch Board</li> <li>• Accessory Board(optional)</li> <li>• Pattern Board</li> <li>• FlatSketch/Fashion Illustrations</li> </ul>	
Photograph of all the Garment	
<b>Evaluation of the Project</b>	
The student should present the portfolio and the garments to the panel of examiners and answer the questions raised by the examiners	
<b>Total Lecture hours</b>	<b>90 hours</b>

<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827">http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</a>
2	<a href="https://fashionandillustration.com/en/how-to-make-a-fashion-collection/">https://fashionandillustration.com/en/how-to-make-a-fashion-collection/</a>
	<a href="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</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	S	S	M	S	S
<b>CO2</b>	M	M	M	S	S	M
<b>CO3</b>	S	M	M	M	M	S
<b>CO4</b>	S	S	S	M	S	S
<b>CO5</b>	M	S	S	S	S	M

\*S-Strong; M-Medium; L-Low

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**ELECTIVE - V**



<b>Course code</b>		<b>ECO DYEING AND PRINTING PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective –V (a)</b>			-	-	4	3
<b>Pre-requisite</b>	<b>Basic knowledge on designing</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Identify natural dyes and pigments.						
2. Moving towards sustainability.						
3. Enjoy the nature around us.						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Understand the types of flowers and leaves in the neighborhood				K2	
CO2	Analyse the colours that can be created from flowers and leaves				K4	
CO3	Dye the fabric with natural colors				K6	
CO4	Create prints with flowers, leaves and rust				K6	
CO5	Create garment designs with eco dyes and prints				K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1.Create a garment / home textile with a natural dye derived from the following</b>					<b>30 hours</b>	
<ul style="list-style-type: none"> <li>• Flower (2 types)</li> <li>• Leaf (2 types)</li> <li>• Fruits / Vegetables (Do not use edible parts only waste)</li> </ul>						
<b>2.Create a garment/ home textile with Eco Prints derived from the following</b>					<b>30 hours</b>	
<ul style="list-style-type: none"> <li>• Flower</li> <li>• Leaf</li> <li>• Fruits / Vegetables (Do not use edible parts only waste)</li> <li>• Rust</li> </ul>						
<b>Total Lecture hours</b>					<b>60 hours</b>	
<b>Text Books</b>						
1	Eco Printing for Beginners: Guide To Eco Printing, Steps, Tips, Eco Printing Methods And More, Brett Ethan, 2022					
<b>Reference Books</b>						
1	Eco Printing 101: Beginners Guide To Eco Printing, Basics, Steps, Tips And Many More, Connor Jace, 2022					
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>						

1	<a href="https://mochni.com/eco-prints-learn-the-process-of-all-natural-eco-printing/">https://mochni.com/eco-prints-learn-the-process-of-all-natural-eco-printing/</a>
2	<a href="https://www.fiberartsy.com/eco-printing-fabric/">https://www.fiberartsy.com/eco-printing-fabric/</a>
3	<a href="https://krex.k-state.edu/bitstream/handle/2097/9118/Haar+Eco+Prints+2011+KSU+Sustainability.pdf;jsessionid=673BEA425E2BE6E776178A462C74D5DF?sequence=1">https://krex.k-state.edu/bitstream/handle/2097/9118/Haar+Eco+Prints+2011+KSU+Sustainability.pdf;jsessionid=673BEA425E2BE6E776178A462C74D5DF?sequence=1</a>
4	<a href="https://naturalfabricdyeing.com/wp-content/uploads/2017/08/All-Eco-Printing-Techniques.pdf">https://naturalfabricdyeing.com/wp-content/uploads/2017/08/All-Eco-Printing-Techniques.pdf</a>

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Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	M	M	S	S	S	M
CO2	M	S	M	S	S	S
CO3	L	M	S	M	M	S
CO4	M	M	S	S	M	S
CO5	L	M	S	M	L	S

\*S-Strong; M-Medium; L-Low

Course code	DESIGN FOR HIGH END KNITS PRACTICAL		L	T	P	C
Elective – V (b)			-	-	4	3
Pre-requisite	Basic knowledge on knits and its application					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Know the usage of knitted fabrics.</li> <li>2. Create innovative designs in knitted fabrics.</li> <li>3. Learn versatile application of knitted fabrics</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Remember the qualities of knitted fabrics				K1	
CO2	Understand the properties of knitted fabrics				K2	
CO3	Apply knitted fabrics in innovative areas				K3	
CO4	Analyze the ornamentation methods in knitted fabrics				K4	
CO5	Evaluate the usage of knitted fabrics as a home textile material				K5	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Garment Construction</b>						
						<b>60 hours</b>

Preparing a trend report based on market study, field research, brand analysis and interview. Trend prediction for new product development

1. Application of knit fabric for Indian ethnic products
2. Creating contemporary artworks
3. Surface ornamentation on knit fabric.
4. Application of western inspiration for high end knits
5. Design and construct wearable art with knitted fabric.
6. Create home textile products out of knit wastes.
7. Drape ethnic wear using knit fabric.
8. Sketch and construct intimate wear/Creating school uniform with knit fabric.

Evaluation by Viva-voce

Cos	PO1	PO2	PO3	PO4	PO5	PO6
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		<b>Total Lecture hours</b>	<b>60 hours</b>
<b>Text Book(s)</b>			
1	Designing for Knitwear, Deborah Newton, The Taunton Press, NewTownCT1998.		
<b>Reference Books</b>			
1	Knitwear Fashion Design, Maite Lafuente, Promo press Publishers, Spain,2017.		
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>			
1	<a href="https://style2designer.com/pattern-cutting-cad-cam/cutting-sewing-techniques/mens-shirt-drafting-sewing-tutorial/">https://style2designer.com/pattern-cutting-cad-cam/cutting-sewing-techniques/mens-shirt-drafting-sewing-tutorial/</a>		

<b>CO1</b>	M	S	S	S	L	M
<b>CO2</b>	M	S	S	S	L	M
<b>CO3</b>	M	S	S	S	L	M
<b>CO4</b>	M	S	S	S	L	M
<b>CO5</b>	M	S	S	S	L	M

\*S-Strong; M-Medium; L-Low

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**ELECTIVE - VI**

<b>Course code</b>		<b>MARKETING AND MERCHANDISING</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - VI (a)</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>		<b>Basic knowledge fashion and consumer</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Impart knowledge on the under lying concepts of marketing and fashion marketing						
2. Familiarize with the fashion products, consumer, communications, research and forecasting						
3. Describe the role of merchandisers in the garment industry and their types						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Understand the basic concepts of marketing and fashion marketing					K2
CO2	Describe the types of fashion products and the consumer behavior					K1
CO3	Explain the process of communication, marketing research and forecasting					K1
CO4	Discover the importance of merchandisers and their types					K3
CO5	Interpret types of stores, design, layouts and merchandise presentation					K2
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Introduction to Marketing</b>					<b>12hours</b>
Marketing – Meaning, Marketing management philosophies, Marketing and Fashion Marketing, The fashion market–structure and size. Marketing environment– Micro and Macro marketing. Marketing Mix–Product, price, promotion and place; Marketing Functions– Assembling, Standardization and packaging; Digital Marketing–meaning, scope and advantages						
<b>Unit:2</b>	<b>Fashion Products and the Consumer</b>					<b>12hours</b>
Marketing fashion products– importance and classification of products; the product mix and range planning; the fashion product life cycle; Fashion Consumer- Role of consumer behavior in marketing, types of consumer decisions, the decision process, factors that influence decisions–consumer attitudes, consumer motivation, Consumer personality, opinion leadership, family and social status						
<b>Unit:3</b>	<b>Marketing Communication, Research and Forecasting</b>					<b>12hours</b>
Fashion marketing communications – traditional approach and integrated approach Fashion marketing research–purpose and significance, stages in the research process Fashion forecasting–meaning and importance, basics of predicting trends–colour, theme, shape, key events, Target market; trend forecasting process.						
<b>Unit:4</b>	<b>Types of Merchandisers</b>					<b>12hours</b>
Merchandiser – essential qualities of a merchandiser; types and functions of merchandisers fashion merchandiser, visual merchandiser, export merchandiser and retail merchandiser; VisualMerchandising–ElementsofVisualMerchandising–Needs–Psychology–Types of Display; Elements of display.						

<b>Unit:5</b>	<b>STORE MANAGEMENT IN MERCHANDISING</b>	<b>12hours</b>
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Store Management in Merchandising- Introduction, Objectives, Types of Stores, Location of a Store, Store Layout, Types of Store Layouts, Store Space Allocation. Store Design- Introduction, Concept of Store Design, Exterior of a store, Interior of a store, Merchandise Presentation- Tools and techniques.	
	<b>Total Lecture hours</b>
	<b>60 hours</b>
<b>Text Books</b>	
1	Fashion Marketing, Mike Easey, Wiley-BlackwellPublishing.2009.
2	Fashion Merchandising and Merchandising, Mary G. Wolfe, The Good heart-WillcoxCo.,Inc,Illinois,2014.
3	Fashion-From concept to consumer-Gini Stephens Frings, Prentice Hall(1999).
4	Fashion Marketing Management, V. Ramesh and A. Arunraj Babu, Woodhead Publishing India, 2019
<b>Reference Books</b>	
1	Marketing, Philip Kotler, Gary Armstrong, Veronica Wong, John Saunders, Pearson Education, India,2008
2	Fashion- from Concept to Consumer, 9 <sup>th</sup> Edition, Gini Stephens Frings, Pearson Education Ltd, Harlow, 2014
3	Fashion Marketing, Janet BogdanovicandLizClamp, Routledge,1994
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.iknockfashion.com/need-of-trend-forecasting/">https://www.iknockfashion.com/need-of-trend-forecasting/</a>
2	<a href="http://www.createafashionbrand.com/the-5-basics-of-trend-prediction/">http://www.createafashionbrand.com/the-5-basics-of-trend-prediction/</a>
3	<a href="https://www.fibre2fashion.com/industry-article/7054/decoding-the-process-of-trend-forecasting-in-fashion">https://www.fibre2fashion.com/industry-article/7054/decoding-the-process-of-trend-forecasting-in-fashion</a>
4	<a href="https://textilelearner.blogspot.com/2013/10/role-of-merchandiser-in-apparel-industry.html">https://textilelearner.blogspot.com/2013/10/role-of-merchandiser-in-apparel-industry.html</a>
5	<a href="https://clothingindustry.blogspot.com/2017/12/merchandiser-merchandising-garment.html">https://clothingindustry.blogspot.com/2017/12/merchandiser-merchandising-garment.html</a>
6	<a href="https://blog.hubspot.com/marketing/what-is-digital-marketing">https://blog.hubspot.com/marketing/what-is-digital-marketing</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	S	S	M	M	M
<b>CO2</b>	L	M	S	M	S	M
<b>CO3</b>	L	M	S	S	M	M
<b>CO4</b>	L	S	S	M	M	S
<b>CO5</b>	L	L	S	S	S	S

\*S-Strong; M-Medium; L-Low



<b>Course code</b>		<b>KNITTING</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - VI (b)</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Basic knowledge about Business</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Familiarize with the basics of knitting process						
2. Impart knowledge on the warp and weft knitting techniques						
3. To know there cent trends and technologies adopted in the industry						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Understandthebasicsknittingprocessandthefunctionsofaknittingmachine					K2
CO2	Discover the weft knitting process and machineries used					K3
CO3	Discover the warp knitting process and machineries used					K3
CO4	Appraise there cent technology in the knitting industry					K5
CO5	Articulatethesignificantroleplayedbytheknittingindustrylocallyand nationally					K3
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Knitting Overview</b>					<b>12hours</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>Unit:2</b>	<b>Principles of Weft Knitting Technology</b>					<b>12hours</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>Unit:3</b>	<b>Principles of Warp Knitting Technology</b>					<b>12hours</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>Unit:4</b>	<b>Seamless Knitting and Knitting Care</b>					<b>12hours</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>Unit:5</b>	<b>Knitting Industry and market</b>					<b>12hours</b>
Knitting Industry in India–growth and development. Significance of knit wear industry in Tirupur. Knitwear market–Present and future trends. Dyeing of Knit Fabric						
					<b>Total Lecture hours</b>	<b>60 hours</b>

<b>Text Books</b>	
1	Knitting Manufacture Technology-Anbumani, New AgeInternational,Chennai,2006
2	KnittingandApparelTechnology,S.S.M.I.TCo-operativeSociety.2005

<b>Reference Books</b>	
1	KnittingTechnology,DBA Jgaonker,UniversalPublishingCorporation,1998
2	Warpknitfabricconstruction:fromstitchformationtostitchconstruction,Wilkens,C.,Heusenstamm,Germany:U.WilkensVerlag,1995.
3	FlatKnitting,MeisenbachBamberg,Samuel.R,Germany,1991
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://fashion2apparel.blogspot.com/2017/02/seamless-garments-advantages.html">https://fashion2apparel.blogspot.com/2017/02/seamless-garments-advantages.html</a>
2	<a href="https://www.indiaretailing.com/2018/06/12/fashion/indian-knitwear-market-present-and-the-future-trends/">https://www.indiaretailing.com/2018/06/12/fashion/indian-knitwear-market-present-and-the-future-trends/</a>
3	<a href="https://www.fibre2fashion.com/industry-article/64/overview-of-tirupur-knitwear-industry">https://www.fibre2fashion.com/industry-article/64/overview-of-tirupur-knitwear-industry</a>
4	<a href="https://www.fibre2fashion.com/industry-article/7047/seamless-garment-technology">https://www.fibre2fashion.com/industry-article/7047/seamless-garment-technology</a>
5	<a href="https://textilelearner.blogspot.com/2013/01/faultsdefects-in-knitted-fabrics.html">https://textilelearner.blogspot.com/2013/01/faultsdefects-in-knitted-fabrics.html</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	M	S	S	S	M
<b>CO2</b>	M	M	S	S	M	S
<b>CO3</b>	M	L	M	M	S	S
<b>CO4</b>	L	M	S	S	S	M
<b>CO5</b>	M	M	S	M	M	S

\*S-Strong; M-Medium; L-Low

MSU

**SEMESTER-VI**

<b>Course code</b>		<b>THE BUSINESS OF FASHION</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core XIII</b>			<b>6</b>	<b>-</b>	<b>-</b>	<b>4</b>
<b>Pre-requisite</b>		<b>Knowledge about fashion</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Gain a better understanding of a fashion designer at the national and international level						
2. Impart knowledge on new product development, sales promotion, retailing and pricing						
3. Move towards a sustainable fashion						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Describe the factors influencing fashion changes					K3
CO2	Weigh the contributions of the fashion designers nationally and internationally					K5
CO3	Understand the steps involved in new product development and sales promotion					K2
CO4	Analyze the scope and functions of retailing and pricing					K4
CO5	Evaluate the environmental pollution created by fashion products and move Towards sustainable fashion					K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>World of Fashion-An Overview</b>					<b>18hours</b>
Factors influencing fashion changes–Accelerating and Decelerating factors Understanding Fashion designer–types– classicist,idealist,influenced,realist,thinkingpoet.Minimalists,VillageIndia, Studio line. World Fashion Centers –Milan, Paris, London and New York						
<b>Unit:2</b>	<b>Legendary Fashion Designers</b>					<b>18hours</b>
Study of International Fashion Designers of the World – Yves Saint Laurent, Valentino, Pierre Cardin, Ralph Lauren, Karl Lagerfield, Donna Karen, Giorgio Armani, Coco Chanel, CalvinKlien, ChristianDior. An overview of Indian Fashion Designers – Manish Malhotra, Manish Arora, Ritu Beri, TarunTahiliani, RohitBal,WendellRodricks,JJValaya.						
<b>Unit:3</b>	<b>Fashion Products and Promotion</b>					<b>18 hours</b>
The fashion industry and new product development; product mix and range planning. Fashion and Seasons. Fashion Promotion–Fashion Communication; Fashion Advertising and Publicity; Personal Selling –importance and steps involved; Fashion Shows–types and steps involved in organizing a show; Sales promotion methods/strategies.						

<b>Unit:4</b>	<b>Fashion Retailing</b>	<b>18hours</b>
Fashion Retailing-Scope and functions, Types of Stores, Challenges for fashion retail in India, E-retailing-growth and development, Major players of fashion goods online. Pricing policies and strategies for apparel products, Functions and factors Influencing pricing, pricing strategies for new products, methods of setting prices.		
<b>Unit:5</b>	<b>Sustainable Fashion</b>	<b>18hours</b>
Sustainable Fashion-meaning and significance; Environmental concerns related to fashion; Linear fashion		

and circular fashion; 4R's in sustainability – Repair, recycle, reuse and reduce. Moving towards sustainable fashion - Eco fashion, Slow fashion; Environmental impact of fast fashion		
	<b>Total Lecture hours</b>	<b>90 hours</b>
<b>Text Books</b>		
1	Drakeetal, Retail Fashion: Promotion and Advertising, Macmillan Publication Company. NewYork, 1992.	
2	Gini Stephens Frings, Fashion-FromConcepttoConsumer,6thedition,PrenticeHall,1999.	
<b>Reference Books</b>		
1	Leslie Davis Burnset-al, The Business of Fashion: Designing,ManufacturingandMarketing,4thEdition, BloomsburyAcademicpublisher,2011	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1	<a href="https://247wallst.com/special-report/2018/10/01/the-30-most-influential-fashion-designers-of-all-time/8/">https://247wallst.com/special-report/2018/10/01/the-30-most-influential-fashion-designers-of-all-time/8/</a>	
2	<a href="https://www.reviewsexp.com/blog/top-fashion-designers/">https://www.reviewsexp.com/blog/top-fashion-designers/</a>	
3	<a href="https://en.wikipedia.org/wiki/Fashion_capital">https://en.wikipedia.org/wiki/Fashion_capital</a>	
4	<a href="https://www.fibre2fashion.com/">https://www.fibre2fashion.com/</a>	
5	<a href="http://www.technopak.com/Files/fashion-retail-scenario-in-india.pdf">http://www.technopak.com/Files/fashion-retail-scenario-in-india.pdf</a>	
6	<a href="https://en.wikipedia.org/wiki/Sustainable_fashion">https://en.wikipedia.org/wiki/Sustainable_fashion</a>	
7	<a href="https://fashionunited.uk/news/fashion/re-defining-sustainability-repair-recycle-reuse-and-reduce/2016052520528">https://fashionunited.uk/news/fashion/re-defining-sustainability-repair-recycle-reuse-and-reduce/2016052520528</a>	
8	<a href="https://get-green-now.com/environmental-impact-fast-fashion/">https://get-green-now.com/environmental-impact-fast-fashion/</a>	

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	S	S	M	M	S
<b>CO2</b>	S	S	M	M	M	S
<b>CO3</b>	M	S	L	M	M	S
<b>CO4</b>	M	S	M	M	M	S
<b>CO5</b>	L	M	L	M	M	M

\*S-Strong; M-Medium; L-Low

Course code	COMPUTER APPLICATIONS IN GARMENT INDUSTRY			L	T	P	C
Core XIV				6	-	-	4
Pre-requisite	Knowledge on computer fundamentals						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Impart knowledge on the significant role played by the computers in the garment industry</li> <li>2. Create an awareness on the latest technologies available in the various sectors of the garment industry</li> <li>3. Teach the advantages of using computer technology to improve the production qualitatively and quantitatively</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Articulate the specifications and functions of a computer and its peripherals					K3	
CO2	Appraise the inevitable role played by computers in various sections of a textile and garment industry					K5	
CO3	Understand the application of CAD and CAM in the areas of textile and garment designing					K2	
CO4	Discover the use of computers in the field of body measurements, patternmaking and Grading					K3	
CO5	Weigh the advantages of computer technology in the process sequences and there by increase production					K5	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Computers in Fashion Industry</b>					<b>18hours</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>Unit:2</b>	<b>Computers in Creating Fabric and Garment Designs</b>					<b>18hours</b>	
CAD in creating designs–Advantages. Computerized weaving, knitting and printing, creating Computerized embroidery machines, Garment designing with CAD– 2D and 3D forms.							
<b>Unit:3</b>	<b>Body Measurements, Pattern Making and Grading</b>					<b>18hours</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>Unit:4</b>	<b>Computers in Manufacturing Process</b>					<b>18hours</b>	

Computer application in fabric defect checking, laying/spreading, cutting marker planning, Labeling-Parts and functions. Computerized sewing machines.		
<b>Unit:5</b>	<b>Digital Design and AI in Fashion</b>	<b>18hours</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 Lecture hours</b>
		<b>60 hours</b>

<b>Text Books</b>	
1	Computers in the Garment Industry Dr R Sheela Johnand , Dr S Amsamani ,Shanga Verlag, Coimbatore,2013
2	Fashion: From Concept to Consumer 4 <sup>th</sup> Edition–Gini Stephens Frings, Prentice Hall, Pearson, 2007
<b>Reference Books</b>	
1	Computer Fundamentals K Sinha, BPB Publications, Delhi,1992
2	The Technology of Clothing Manufacture, Harold Carrand Barbara Latham, Blackwell Ltd, 1994
3	Computer Technology for Textiles and Apparel, Jinlian Hu, Elsevier,2011
4	Automation in Garment Manufacturing,Raj kishore Nayakand Rajiv Padhye,Wood head Publishing,2017
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://inifdahmedabad.com/blog/importance-of-cad-in-fashion-industry/">https://inifdahmedabad.com/blog/importance-of-cad-in-fashion-industry/</a>
2	<a href="https://clothingindustry.blogspot.com/2018/02/application-cad-weaving.html">https://clothingindustry.blogspot.com/2018/02/application-cad-weaving.html</a>
3	<a href="http://textilescommittee.nic.in/writereaddata/files/publication/gar4.pdf">http://textilescommittee.nic.in/writereaddata/files/publication/gar4.pdf</a>
4	<a href="https://study.com/academy/lesson/how-is-cad-cam-used-in-textiles.html">https://study.com/academy/lesson/how-is-cad-cam-used-in-textiles.html</a>
5	<a href="https://clothingindustry.blogspot.com/2018/02/importance-cad-textile-designing.html">https://clothingindustry.blogspot.com/2018/02/importance-cad-textile-designing.html</a>
6	<a href="https://textilelearner.blogspot.com/2012/03/computer-application-areas-in-textile.html">https://textilelearner.blogspot.com/2012/03/computer-application-areas-in-textile.html</a>
7	<a href="https://link.springer.com/chapter/10.1007/978-3-642-58214-1_47">https://link.springer.com/chapter/10.1007/978-3-642-58214-1_47</a>

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	L	S	S	S	M	L
CO2	L	S	S	S	M	M
CO3	S	S	S	S	S	S
CO4	S	S	S	S	M	M
CO5	S	S	S	S	M	M

\*S-Strong; M-Medium; L-Low

Course code	COMPUTER AIDED DESIGN II PRACTICAL			L	T	P	C
Core XV				-	-	6	4
Pre-requisite	Basic knowledge on computers						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Create professional designs with computers.</li> <li>2. Develop garment designs by using various tools and colours in the digital software.</li> <li>3. Apply the elements/principles of design and colour harmonies in the garment designs.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Create garment designs with different colour harmonies in computers					K6	
CO2	Develop garment designs with various elements of design in computers					K6	
CO3	Design garment sketches following the principles of design in computers					K6	
CO4	Create garment designs for various seasons in computers					K6	
CO5	Draft and grade patterns digitally					K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>1.Create Garment Designs for the Following Colour Harmonies</b>						<b>15hours</b>	
<ul style="list-style-type: none"> <li>• Mono chromatic colour harmony</li> <li>• Analogous colour harmony</li> <li>• Complementary colour harmony</li> <li>• Double complementary colour harmony</li> <li>• Split Complementary colour harmony</li> <li>• Triad colour harmony</li> <li>• Tetrad colour harmony</li> <li>• Neutral colour</li> </ul>							
<b>2.Create Garment Designs for the Following Elements of Design</b>						<b>10hours</b>	



<ul style="list-style-type: none"> <li>• Line</li> <li>• Shape</li> <li>• Size</li> </ul>	
<b>3.Create Garment Designs for the Following Principles of Design</b>	<b>10hours</b>
<ul style="list-style-type: none"> <li>• Balance</li> <li>• Rhythm</li> <li>• Emphasis</li> <li>• Proportion</li> <li>• Harmony</li> </ul>	
<b>4.Create Garment Designs for the Following Seasons</b>	<b>10hours</b>
<ul style="list-style-type: none"> <li>• Summer</li> <li>• Winter</li> <li>• Spring</li> <li>• Autumn</li> </ul>	
<b>5.Draft and Grade Patterns for the Following Garments</b>	<b>15hours</b>
<ul style="list-style-type: none"> <li>• Bib</li> <li>• Jabla</li> <li>• Salwar</li> <li>• T-Shirt</li> </ul>	
<b>6.Create Garment Designs for the Following Occasions</b>	<b>15hours</b>
<ul style="list-style-type: none"> <li>• Party wear</li> <li>• Casual wear</li> <li>• Wedding collection</li> <li>• Sportswear (any sports)</li> </ul>	
<b>Total Lecture hours</b>	
	<b>75hours</b>
<b>Text Books</b>	
1	Fashion Design Drawing& Presentation, Patrick John Ireland, Pavilion Books, London, United States,1982.
2	Drawing and Designing Children's and Teenage Fashions, Patrick John Ireland, Wiley,1979.
3	Fashion Design Illustration: Men, Patrick John Ireland, B.T. Bats ford Books, London,1996.
<b>Reference Books</b>	
1	Fashion Sketch Book, Bina Abling, Fairchild Books, NewYork,2007
2	Foundation in fashion design and Illustration, Julian Seaman, B.T. Bats ford Books, London, 2001
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.youtube.com/watch?v=jTWtQNTJt_A">https://www.youtube.com/watch?v=jTWtQNTJt_A</a>
2	<a href="https://www.youtube.com/watch?v=iX7O4fNQijA">https://www.youtube.com/watch?v=iX7O4fNQijA</a>
3	<a href="https://www.youtube.com/watch?v=nWCNuSBc1Y0">https://www.youtube.com/watch?v=nWCNuSBc1Y0</a>
4	<a href="https://www.youtube.com/watch?v=x8BsIME4gi4">https://www.youtube.com/watch?v=x8BsIME4gi4</a>
5	<a href="https://www.youtube.com/watch?v=LMZPbT1msR0">https://www.youtube.com/watch?v=LMZPbT1msR0</a>

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	S	M	M	L	S

<b>C02</b>	S	S	M	S	L	S
<b>C03</b>	S	S	M	M	L	S
<b>C04</b>	S	S	M	S	L	M
<b>C05</b>	S	S	M	M	L	S

\*S-Strong; M-Medium; L-Low

## **ELECTIVE - VII**

MSU

<b>Course code</b>		<b>ORGANISATION OF GARMENT UNIT</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - VII (a)</b>			<b>5</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>		<b>Basic knowledge on garment and quality</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Enable student to become a successful entrepreneur/manager in the future						
2. Impart knowledge on the organization of the various departments of a garment unit						
3. Gain a better understanding of a garment unit with SWOC analysis						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Interpret the meaning of entrepreneur and management					K2
CO2	Understand the organizational structure of a garment unit					K2
CO3	Plan factory design and layout to suit the production needs					K4
CO4	Prepare cost sheet for a finished product					K3
CO5	Set up a garment unit by performing SWOC analysis					K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Entrepreneur and Management</b>					<b>15 hours</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>Unit:2</b>	<b>Organizational Structure of a Garment Unit</b>					<b>15 hours</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>Unit:3</b>	<b>Factory Design and Layout</b>					<b>15 hours</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>Unit:4</b>	<b>Principles of Costing</b>					<b>15 hours</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>Unit:5</b>	<b>Garment Export Unit</b>	<b>15 hours</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, TII, KVIC, CODISSIA, Commercial banks –SBI.		

		<b>Total Lecture hours</b>	<b>75 hours</b>
<b>Text Books</b>			
1	Introduction to Clothing Production Management, A J Chester 2nd Edition, Wrenbury Associates Ltd, 1998.		
2	The technology of clothing manufacture, Harold Carrand Barbara Latham, Black well Science, 1994.		
3	Apparel Costing, A functional Approach- Krishnakumar.M, Abishek Publications, Chandigarh, 2011.		
<b>Reference Books</b>			
1	Principles of Management, Dinakar Pagare, Sultan Chand and Sons, Delhi, 2018.		
2	Entrepreneurship Development in India, Dr.C.B Gupta, Dr. N.P. Srinivasan, Sultan Chand and Sons Delhi, 1997.		
3	Industrial Engineering in Apparel Production, V.Ramesh Babu, Wood Head Publishing India in Textiles, 2012.		
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>			
1	<a href="https://lonelyentrepreneur.com/types-of-entrepreneurs/">https://lonelyentrepreneur.com/types-of-entrepreneurs/</a>		
2	<a href="https://textilecourse.blogspot.com/2019/02/plant-layout-textile-garment-industry.html">https://textilecourse.blogspot.com/2019/02/plant-layout-textile-garment-industry.html</a>		
3	<a href="https://www.fibre2fashion.com/industry-article/7665/the-organisation-of-a-clothing-factory">https://www.fibre2fashion.com/industry-article/7665/the-organisation-of-a-clothing-factory</a>		
4	<a href="https://apparelcosting.blogspot.com/2017/05/apparel-costing-principles.html">https://apparelcosting.blogspot.com/2017/05/apparel-costing-principles.html</a>		
5	<a href="https://www.onlineclothingstudy.com/2019/04/how-to-start-garment-business.html">https://www.onlineclothingstudy.com/2019/04/how-to-start-garment-business.html</a>		

Cos	PO1	PO2	PO3	PO4	PO5	PO6
<b>CO1</b>	S	M	S	M	S	L
<b>CO2</b>	M	S	S	S	S	M
<b>CO3</b>	S	M	M	M	M	M
<b>CO4</b>	M	S	S	S	S	S
<b>CO5</b>	L	M	L	S	M	L

\*S-Strong; M-Medium; L-Low

<b>Course code</b>		<b>TECHNICAL TEXTILES</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - VII (b)</b>			<b>5</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>		<b>Basic knowledge about Business</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Acquire knowledge in technical textile.						
2. Develop an understanding of fiber in technical textile.						
3. Become familiar with various usage of technical textile.						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Understand the characteristics of technical textiles its types					K2
CO2	Discover the properties of Technical textiles and its types					K3
CO3	Interpret the area of applications of types of technical textiles					K3
CO4	Recognize the underlying concepts					K1
CO5	Apply the concepts in creation of garments					K3
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Introduction to Technical Textiles</b>					<b>15 hours</b>
Introduction to Technical textiles, definition and scope of technical textiles, developments in fibres- Natural fibres, polyamide, polyester, viscose rayon, polyolefin, high performance fibres and glass and ceramics, Application of technical textiles.						
<b>Unit:2</b>	<b>Functional Apparels and Medical Textiles</b>					<b>15 hours</b>
Functional apparels: Design and engineering of functional clothing, requirements, smart characteristics: structural, aesthetic, functional, comfort and fit for clothing. Medical textile: Materials used and classification. Requirements and application. Textiles for Health care and Hygiene products.						
<b>Unit:3</b>	<b>Protective Wear</b>					<b>15 hours</b>
Selection of materials, requirements and functions of flame resistant, chemical, mechanical, Electrical and radiation protective clothing.						
<b>Unit:4</b>	<b>Sports Wear</b>					<b>15 hours</b>
Sports wear requirements-functional fibers, yarns and fabrics suitable for sportswear- Sweat management for sports application. Footwear Clothing: Fabric requirements, finishing adaptability.						
<b>Unit:5</b>	<b>Smart and Intelligent Textiles</b>					<b>15 hours</b>
Smart fibers: Nano fibers, Photo adaptive fibers, Chameleon fibers, Conductive fibers –properties and applications in textiles and apparels. Phase change materials: properties and applications. Shape memory polymers and properties. Stimuli sensitive intelligent textiles.						

		<b>Total Lecture hours</b>	<b>75 hours</b>
<b>Text Books</b>			
1	Textiles for Sports wear, Roshan Shishoo, Woodhead Publishing, 2015.		
2	Handbook of Technical Textiles, A. R. Horrocks, S. C. Anand, Woodhead Publishing, 2000.		
3	Handbook of Industrial Textiles, S. Adanur, Technomic Publication, 2001.		
<b>Reference Books</b>			
1	Design and manufacture of Textile Composites, M. C. Kanna, Hearle O'Hear, Textile process, Textile Institute, Manchester, 2004.		
2	Hand book of Medical Textiles, V. Bartels, Woodhead Publishing, 2011.		
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>			
1	<a href="https://nptel.ac.in/courses/116/102/116102057/">https://nptel.ac.in/courses/116/102/116102057/</a>		
2	<a href="https://www.classcentral.com/course/swayam-testing-of-functional-and-technical-textiles-13051">https://www.classcentral.com/course/swayam-testing-of-functional-and-technical-textiles-13051</a>		

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	S	S	S	M	M
<b>CO2</b>	S	S	S	S	M	M
<b>CO3</b>	M	S	S	S	S	S
<b>CO4</b>	S	S	S	S	M	M
<b>CO5</b>	S	S	S	S	M	M

**ELECTIVE - VIII**



Course code	SUSTAINABLE PRODUCT DEVELOPMENT PRACTICAL		L	T	P	C
Elective – VIII (a)			-	-	5	3
Pre-requisite	Skills in converting waste materials into Useful articles					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Create an awareness of the pollution created by the fabric waste</li> <li>2. Motivate the students to create products from waste</li> <li>3. Apply the concept of 3R</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Appraise the enormity of waste fabric available around				K4	
CO2	Develop Interest in making home textiles, garments or accessories with waste				K6	
CO3	Modify waste into a creative product				K6	
CO4	Take part in ‘thinking out of the box’ concept				K4	
CO5	Design creative and unique products that can be used in their home				K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1.Collection of Wastes</b> <span style="float: right;"><b>15 hours</b></span>						
<p>The student can apply the concept of 3R -Reduce, reuse and recycle and create any products. Yarns ravelled from old dresses may be used to enrich a product. If waste fabric is used Waste fabrics are collected. The waste fabrics include used clothes, torn garments, fabric waste bits from the tailoring shops or dressmaker’s room. The fabrics are washed with soap and hot water and sterilized.</p> <p>Create any 10 products</p>						
<b>2.Accessories</b> <span style="float: right;"><b>15 hours</b></span>						
<ul style="list-style-type: none"> <li>• Hand Bags</li> <li>• Cell Phone Pouches</li> <li>• Belts</li> </ul>						
<b>3.Ornaments</b> <span style="float: right;"><b>15 hours</b></span>						
<ul style="list-style-type: none"> <li>• Set of Earrings</li> <li>• Pair of Bangles</li> <li>• Hair Band</li> </ul>						
<b>4.CreatetheFollowingProducts</b> <span style="float: right;"><b>15 hours</b></span>						
<ul style="list-style-type: none"> <li>• Puppets</li> <li>• Dress for Dolls</li> <li>• Note Book Covers</li> </ul>						
<b>5.HomeTextileProducts</b> <span style="float: right;"><b>15 hours</b></span>						
<ul style="list-style-type: none"> <li>• Table Cloth</li> <li>• Door Mats</li> <li>• Plate Mats</li> <li>• Pillow Covers</li> </ul> <p>Anyother (For your creativity)</p>						

	<b>Total Lecture hours</b>	
	<b>75 hours</b>	

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<b>Text Book(s)</b>	
1	Cool Fabric Projects: Creative Ways to Upcycle Your Trash Into Treasure, Pam Scheunemann,ABDO, 2012
2	Upcycling Crafts, Kitty Moore, VentureInk,2019
3	QuiltsfromtheHouseofTulaPink,20FabricProjects To Make, Use and Love, Tula Pink, Krause Publications,2012
<b>Reference Books</b>	
1	Half Yard(TM)Bags&Purses:Sew 12beautifulbagsand12matchingpurses,DebbieShore,Search Press, Limited,2018
2	CraftyLittleThingstoSew:20CleverSewingProjectsUsingScraps&FatQuarters- Caroline Fairbanks and Critchfield, LarkBooks,2017
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.diyncrafts.com/15703/repurpose/100-brilliant-projects-to-upcycle-leftover-fabric-scraps">https://www.diyncrafts.com/15703/repurpose/100-brilliant-projects-to-upcycle-leftover-fabric-scraps</a>
2	<a href="https://feltmagnet.com/crafts/Fabric-Scraps-Crafts-Ideas">https://feltmagnet.com/crafts/Fabric-Scraps-Crafts-Ideas</a>
3	<a href="https://in.pinterest.com/fabricdotcom/scrap-fabric-projects/">https://in.pinterest.com/fabricdotcom/scrap-fabric-projects/</a>
4	<a href="https://www.youtube.com/watch?v=YscLxJrZ_WI">https://www.youtube.com/watch?v=YscLxJrZ_WI</a>
5	<a href="https://sewing.com/sewing-projects-fabric-scraps/">https://sewing.com/sewing-projects-fabric-scraps/</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	S	S	L	M	S
<b>CO2</b>	S	S	S	M	L	S
<b>CO3</b>	S	M	S	M	M	S
<b>CO4</b>	S	S	S	M	M	S
<b>CO5</b>	S	M	S	M	M	S

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	<b>COUTURE DESIGN DEVELOPMENT</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective – VIII (b)</b>	<b>PRACTICAL</b>	-	-	<b>5</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Basic knowledge on computers</b>				
<b>Course Objectives:</b>					
The main objectives of this course are to:					
<ol style="list-style-type: none"> <li>To impart knowledge of the development of traditional, party and bridal wears with reference to origin, production, material, colour and motifs.</li> <li>To acquire construction and finishing techniques of couture collections.</li> <li>To familiarize students with the growing trends in bridal wear market.</li> </ol>					
<b>Expected Course Outcomes:</b>					
On the successful completion of the course, student will be able to:					

CO1	Analyze the contemporary design in terms of style details, colors, fabric and trims	K4
CO2	Create modifications in silhouette and components to come up with a newconcept in bridal wear segments	K6
CO3	Apply print designs, patterns, art inspirations and textures to the couture garments.	K3
CO4	Understand the appropriate textile materials for the development of traditional, party and bridal collection	K2
CO5	Create a design according to market requirements and latest trends	K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
<b>Design Development for traditional, party wear and bridal wear segments.</b>		<b>20 hours</b>
<b>PART A</b>		
<ul style="list-style-type: none"> <li>• Recent print research</li> <li>• Repeated pattern and types</li> <li>• Texture variations</li> </ul>		
<b>PART B (Sketches only)</b>		<b>25 hours</b>
<ul style="list-style-type: none"> <li>• Silhouette modifications</li> <li>• Study on various garment component modifications</li> <li>• Application of cut-make-trim for the new modern trends</li> </ul>		
<b>PART C (3 designs in each category)</b>		<b>30 hours</b>
<ul style="list-style-type: none"> <li>• Study on the wedding dress-Across countries. Design garments based on their culture.</li> <li>• Fashion design for the plus size. Sketch a kurta salwar / Long skirt and top / Gownfor Indian plus size women.</li> <li>• Design a red carpet–couture segments garments with high end trims and accessories.</li> </ul>		
<b>Total Lecture hours</b>		<b>75hours</b>
<b>Text Books</b>		
1	Couture Sewing Techniques 19 <sup>th</sup> Edition, Claire B. Schaeffe, Taunton Press, US, 2001.	
2	The Dress Making: The Handbook of Couture Sewing Techniques. Essential step-by-step Techniques for professional results– 21 <sup>st</sup> edition, Lynda Maynard, Interweave Press, US, 2010.	
3	Couture Bridal wear: Pattern Layout and Design, Margot Arendse, Brassey's, US, 2000.	
<b>Reference Books</b>		

1	The Metric Pattern Cutting for Women's Wear– 5 <sup>th</sup> Edition, Blackwell Publishers, Australia, 2008.	
2	Creative Clothing Construction, Bane, A., McGraw-Hill Book, New York, 1966.	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1	<a href="https://www.careeraddict.com/become-wedding-dress-designer">https://www.careeraddict.com/become-wedding-dress-designer</a>	

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	S	S	S	M	S
<b>CO2</b>	S	M	M	S	S	S
<b>CO3</b>	S	S	S	S	M	S
<b>CO4</b>	S	S	M	S	M	S
<b>CO5</b>	M	S	M	S	M	S

\*S-Strong; M-Medium; L-Low

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**NAAN MUDHALVAN**

<b>Course code</b>	<b>Sem-II</b>	<b>Naan Mudhalvan/ Pattern Making &amp; Grading</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Part-IV</b>			<b>2</b>	<b>-</b>		<b>2</b>
<b>Pre-requisite</b>		<b>Basic knowledge on Pattern Making</b>				

<b>COURSE OUTCOMES</b>	
<b>On the successful completion of the course student will be able to,</b>	
<b>CO1</b>	Apply methods of Pattern making.
<b>CO2</b>	Develop the commercial pattern and body measurement.
<b>CO3</b>	Plan the pattern layout and its rules in cutting.
<b>CO4</b>	Justify the fitting and its principles.
<b>CO5</b>	Compose manual and computerized grading.

**Preamble:** This course facilitates an understanding of pattern making and orients the learners in the field of costume design. The learners are expected to know the drafting, draping, pattern layout, fitting in fashion industry.

#### **UNIT – I Methods of pattern making**

Methods of pattern making - Drafting – Principles of drafting. Steps in drafting children’s and adults bodice and sleeve patterns. Flat pattern techniques - Definition, Pivot, Slash and Spread method.

#### **UNIT – II Commercial Pattern**

Study of commercial pattern and body measurements. Preparation of commercial pattern. Body measurements - importance and Principles of taking body measurements. Method of taking body measurements of different garments.

#### **UNIT – III Pattern layout**

Pattern layout - Rules in pattern layout, common methods for layout, layout for asymmetrical designs, bold designs, checked and one-way design. Economy of fabrics in placing pattern - Adjusting the fabrics to patterns.

#### **UNIT-IV Fitting**

Fitting - Definition-Principles for good fit. Causes for poor fit, checking the fit of a

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garment, Fitting techniques. Pattern alteration - importance of altering patterns. Principles for pattern alteration.

### **UNIT – V Grading**

Grading - Definition, Types (Manual and Computerized). Manual- Master grade basic back, basic front, basic collar and basic facing grading. Computerized grading technology- Information Flow, System description.

### **REFERENCE**

1. Helen Joseph Armstrong, "Pattern making For fashion Design", HarperCollins publishers, 1987.
2. Winfred Aldrich, "Metric Pattern Cutting", Black well Science Ltd., England, 1994.
3. Winfred Aldrich, "Metric Pattern Cutting for Men's Wear", Blackwell Science Ltd, 1976.
4. Winfred Aldrich, "Metric Pattern cutting for children's wear", Blackwell Science Ltd., England, 1999.
5. Gerry cooklin, "Pattern Grading for Children's clothes", Blackwell Science Ltd., English, 1991.

<b>Course code</b>	<b>Sem-III</b>	<b>Naan Mudhalvan/Sewing Technology</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Part-IV</b>			<b>2</b>	<b>-</b>		<b>2</b>
<b>Pre-requisite</b>		<b>Basic knowledge on Sewing Technology</b>				
<b>Course Objectives:</b>						
<b>CO1</b>	Demonstrate the Sewing Machineries.					
<b>CO2</b>	Explain the stitching mechanism.					
<b>CO3</b>	Plan spreading methods and tools used for spreading					
<b>CO4</b>	Assume the cutting technologies and its techniques.					
<b>CO5</b>	Analyze sewing federal standards for stitch and stitch classification.					

### **UNIT-I Sewing machineries**

Sewing machineries- classification of sewing machines, parts and functions of single needle machine, double needle machine, over lock machine, bar tacking machine, button hole making machine, button fixing machine, blind stitching machine, care and maintenance, common problems and remedies.

### **UNIT – II Stitching mechanism**

Stitching mechanism - Needle, Bobbin case, Bobbin and its winding, shuttle, shuttle hook, Loops and Loop spreader, threading finger, upper and lower threading, auxiliary hooks, throat plate, presser foot and its types, Take-up lever, Tension guide and their functions.

### **UNIT-III Spreading and marking**

Spreading methods and tools used for spreading, types of spreading. Marking methods - positioning marking, types of markers, efficiency of a marker plan, and requirements of marker planning.

### **UNIT-IV Cutting technology**

Cutting technology – definition and function of cutting. Cutting equipment and tools, Stright knife cutting machines, Rotary cutting machines, Band knife cutting machine, Die cutters, drills and computerized cutting machines. Pressing Equipment - purpose, pressing equipment and methods – iron, steam press, steam air finisher, steam tunnel.

### **UNIT – V Stitches and seams as per Federal standards**

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

## REFERENCE

1. Mary Mathews, "Practical Clothing Construction" – Part I and II Cosmic Press, Chennai, 1986.
2. Harold Carr and Barbara Latham, "Technology of Clothing Manufacture" Wiley Publishers, 1994.
3. Gerry Cooklin, "Introduction to clothing manufacture", Blackwell Science, 1996.
4. Gerry cooklin, "Garment Technology for fashion designers", Blackwell Science Ltd, 1996.

Course code	Sem-IV	Naan Mudhalvan/Basics of Embroidery	L	T	P	C
<b>Part-IV</b>			2	-		2
<b>Pre-requisite</b>		<b>Basic knowledge on Embroidery</b>				
<b>Course Objectives:</b>						
<b>CO1</b>	Categorize different types of hand and traditional embroidery stitches used in India.					
<b>CO2</b>	Select different colours of embroidery threads used for embroidery.					
<b>CO3</b>	Make use of different types of trimmings used in various dresses for kids, women's and men's wear.					
<b>CO4</b>	Create various design used for making stitches.					
<b>CO5</b>	Combine different types of stitches in one design.					

### Hand embroidery Stitches

Hand embroidery Stitches – Running, Stem, Back, Whipped, Blanket, Lazy daisy, Chain, Double chain, Couching, Herringbone, Fish bone, Feather – single and double, Rumanian, Cross, Fly, Satin, Long and Short, French knot, Bullion knot, Double knot, Seed, Straight, Lettering – Alphabets and Monogram work.

### Traditional Indian Embroidery

Kashida of Kashmir, Kantha of Bengal, Phulkari of Punjab, Embroidery of Kutch and Kathiawar, Zariembroidery, Kasuti of Karnataka, Chikankari of Luck now.

### Surface trimmings and Decorations

Creating style through surface trimmings and Bias trimmings, Ric-Rac, Ruffles, Smocking, Faggoting, Drawn thread work, Cutwork, Belts and Bows, Quilting, Patch work, Appliqué work – velvet, plain, printed appliqué. Mirror work, Sequins, patch work, Bead work, Shadow work, Fabric painting – using Fabric Colors, Glitters, Pastes.

### REFERENCE

1. Nirmal C. Mistry, “Embroidery”, Naganeeth Publications Ltd., 1999.
2. Kit Pynan and Carole, “The Harmony Guide to Decorative Needle Craft”, Lyric BooksLtd., 1982.
3. Shailaja M. and Naik. D., “Traditional Embroideries of India”, KPH Publishing Corporation, 1996.
4. Ritu, “Attractive Embroidery Designs”, Indica Publishers, 1995.

Course code	Sem-V	Naan Mudhalvan/Fashion Concept	L	T	P	C
<b>Part-IV</b>			2	-		2
<b>Pre-requisite</b>		<b>Understanding of Fashion designing</b>				
<b>Course Objectives:</b>						
<b>CO1</b>	Apply the Elements of design used in various dresses.					
<b>CO2</b>	Design principle of design in various attire.					
<b>CO3</b>	Create various types of dresses using colours.					
<b>CO4</b>	Illustrate dresses for unusual figures types.					
<b>CO5</b>	Explain the terms of fashion used in fashion industry.					

### UNIT – I Design

Design - definition and types- structural and decorative design, requirements of a good structural and decorative design in dress. Elements of design- line shape or form, colour and texture and its application in dress.

### UNIT – II Principles of Design

Principles of design- Balance - formal and informal, rhythm- through repetition, radiation and gradation, emphasis, harmony and proportion and its application in dress. Application of trimmings and decorations used in fashion designing.

### UNIT –III Colour

Colour- definition, colour theories - Prang colour chart, Dimensions of colour - Hue, Value and intensity, Munsell colour system and Standard colour harmonies - Application of colour in principles of design and in dress design.

### UNIT- IV Designing Dresses for Unusual Figures

Designing dresses for unusual figures- becoming and unbecoming for the following figure types. Stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, small face, prominent chin and jaw, prominent forehead.

### Unit –V Fashion Evolution

Fashion evolution – Fashion, style, fad and classic, Fashion cycles, Adoption of

Fashion theories- Trickle down, trickle up and trickle across, fashion director, fashion editor, fashion leaders, fashion innovators, fashion victim, Fashion followers.

## REFERENCE

1. Bina Abling, "Fashion sketchbook", Fair Child Publications, 4<sup>th</sup> edition, New York Wardrobe, 2008.
2. Jeanette A. Jarnow, Beatrice Judelle, "Inside the Fashion Business", Macmillan Publishing Company, New York, 1973.
3. McJimsey and Harriet, "Art and Fashion in Clothing Selection", Iowa State University press, Iowa, 1973.

Course code	Sem-VI	Naan Mudhalvan/Fiber to Fashion	L	T	P	C
<b>Part-IV</b>			<b>2</b>	<b>-</b>		<b>2</b>
<b>Pre-requisite</b>		<b>Understanding of fibre to Fabric</b>				
<b>Course Objectives:</b>						
<b>CO1</b>	<b>Define introduction to the field to textile.</b>					
<b>CO2</b>	<b>Demonstrate the types of spinning.</b>					
<b>CO3</b>	<b>Determine manufacturing process of synthetic fiber..</b>					
<b>CO4</b>	<b>Analyze principle of short stable fiber.</b>					
<b>CO5</b>	<b>Explain yarn and its types.</b>					

### UNIT – I Introduction to the field to textile

Introduction to the field to textile - definition and classification of textile fibres - General Properties of textile fibres - Identification of textile fibres - Microscopic test, Burning Test, Solvent test.

Brief study on important properties and uses of natural fibres - Cotton, silk, wool and bast fibres.

### UNIT – II Spinning

Spinning – definition, classification - chemical and mechanical spinning. Manufacturing process flow of Regenerated fibres - Viscose rayon, Acetate Rayon

Modal, Lyocell, and their uses.

### **UNIT – III Manufacturing process flow of Synthetic fibres**

Manufacturing process flow of Synthetic fibres - Polyester, Nylon, Poly acrylic and spandex, Aramide fibres and their uses. Brief study of high performance fibres.

### **UNIT – IV Principles of short staple spinning**

Principles of short staple spinning – Brief study on the sequence of process involved, and their functions. Passage of material through blow room, carding, combing, drawing, speed frame, Ring frame, doubling machine and cone winding machine. Texturisation - Definition, process, properties of yarn.

### **UNIT – V**

Yarn - definition and classification - simple and fancy yarns. Yarn Twist - types and effect. Sewing thread - types, properties - ticket numbering.

### **REFERENCE**

1. Corbmann. B.P., “Textiles – fibre to fabric”, International student’s edition, MCGraw hill book Company, Singapore, 1985.
2. Joseph J Pretal, “Fabric Science”, 5<sup>th</sup> Edition, Fair child Publications, New York, 1987.
3. Mishra. S.P., “A text book of fibre science and Technology”, New Age international (P) Ltd. Publishers, New Delhi, 2000.
4. Gordon Cook, J., “Hand book of Textile Fibres” – Vol I, II wood head publishing Ltd., Cambridge, English, 1984.
5. Gerard J. Tortora, Phyllis G. Tortora, “Understanding Textiles”, Macmilan, 1978.

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