



**PERIYAR UNIVERSITY**

**PERIYAR PALKALAINAGAR**

**SALEM-636011**

**DEGREE OF BACHELOR OF SCIENCE  
CHOICE BASED CREDIT SYSTEM**



*Syllabus for*

**B.Sc. FASHION TECHNOLOGY**

**(SEMESTER PATTERN)**

**(For Candidates admitted in the College Affiliated to Periyar  
University From 2022-2023 onwards)**



## REGULATIONS

### I. ELIGIBILITY

- II. Candidates seeking admission to the first year degree of Bachelor of Science in Textiles and Fashion Designing shall be required to have passed in any Higher Secondary Course examination (Regular academic or Vocational) of the state board/CBSE/ICSE or other examination accepted as equivalent thereto by the syndicate, subject to such other conditions as may be prescribed. Pass in any three year Diploma in Fashion/Costume/Textile/Apparel related course is eligible to admit in direct second year of this UG course.

### III. DURATION

The course for the degree of Bachelor of Science Fashion Technology shall extend over a period of three academic years - 6 Semesters and each semester normally consisting of 90 working days or 450 Hours.

### IV. ELIGIBILITY FOR THE DEGREE

A candidate shall be eligible for the degree of Bachelor of Science Fashion Technology, if he/she has satisfactorily undergone the prescribed courses of the study for a period not less than 6 semesters in an institution approved by the university has passed the prescribed examinations in all the 6 Semesters.

### V. SUBJECT OF STUDY

The subjects of the study for the B.Sc., Fashion Technology and the syllabus for the subjects are given in the annexure.

### VI. REQUIREMENT OF EXAMINATION

The theory examinations will be conducted for 3 hours by the university in the subjects prescribed for all the semesters in every semester.

The practical examinations will be conducted by the university for 3 hours with respective to allied and core practical's in all the subjects prescribed in every semester.

### VII. SCHEME OF THE EXAMINATION

The scheme of examinations for the course is given in Annexure. All the practical examinations /Internship work shall be conducted & evaluated internally by the institution themselves with internal and external examiners appointed by the university.

<b>Program Specific Objectives (PSOs)</b>	
<b>B.Sc. ( Fashion Technology)</b>	
PSO-1	Gain the knowledge of fashion technology course through theory and practical oriented courses.
PSO-2	Understand good laboratory practices in garment designing and construction.
PSO-3	Understand the impact of the professional designing solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO-4	Make aware of to handle the sophisticated instruments/equipment's at industry level
PSO-5	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary field and to become a significant provider of employment and self-employment opportunities.
PSO-6	Develop research oriented skills and thereby build a strong foundation for higher studies.

<b>Program Objectives (POs)</b>	
<b>B.Sc. ( Fashion Technology)</b>	
PO - 1	Inculcate the students at first to the fundamentals governing the aesthetic and design elements required for a fashion technology graduate along with the fundamentals of management aimed at sufficient skill levels required in the apparel manufacturing industry.
PO - 2	To introduce different essential streams including apparel manufacturing technology, information technology, quality management, etc.
PO - 3	Impart extensive knowledge of raw materials including fabrics and trims in the formative years to enable the students to relate their understanding with apparel manufacturing.
PO - 4	To build upon the integration of creative forces of design with fashion technology, and also keeps in mind the historical, social and cultural contexts in which the designers work today
PO - 5	The culmination of the Programme leads the student researching, experimenting and implementing the skills by way of a graduation project.
PO - 6	Mold the students to be qualified to position themselves for diverse work profiles available in the apparel manufacturing sector.

## COURSE OF STUDY AND SCHEME OF EXAMINATION

SEM	PART	PAPER CODE	COURSE CODE	COURSE	HRS		Credit	MARKS		
					L	T/P		CIA	EA	TOTAL
I	I		Language	Tamil-I	2	4	3	25	75	100
	II		Language	English- I Communicative English	2	4	3	25	75	100
	III		Core-I	Pattern Making & Grading	4	2	5	25	75	100
			Allied Practical-I	Basics of Apparel Designing Practical	1	2	3	40	60	100
			Allied Practical-II	Fashion Illustration & Sketching Practical	2	1	3	40	60	100
	IV		Value Education	Yoga	1	1	2	25	75	100
			Add-on Course	Professional English-I	4	-	4	25	75	100
					30	23			700	
II	I		Language	Tamil-II	2	4	3	25	75	100
	II		Language	English-II Communicative English	2	2	3	25	75	100
	III		Core -II	Fashion Design Concepts & Methodology	2	2	3	25	75	100
			Allied-I	Fibre & Yarn Science	4	-	4	25	75	100
			Core Practical-I	Fashion Design Concepts & Methodology Practical	1	3	3	40	60	100
	II	NMSDC	Naan Mudhalvan Skill Course-	Language Proficiency for Employability-Effective English	2	-	2	25	75	100
	IV		EVS	Environmental Studies	2	-	2	25	75	100
			Add-on Course	Professional English-II	4	-	4	25	75	100
					30	24			800	
III	III		Language	Tamil-III	2	4	3	25	75	100
			Core-III	Fabric Science	4	2	3	25	75	100
			Allied-II	Historic Costumes of India	3	-	3	25	75	100
			Allied-III	Fashion and Clothing Psychology	3	-	3	25	75	100
			Core Practical-II	Children's Apparel Practical	-	4	2	40	60	100
			Core Practical-III	Fibre to Fabric Science Practical	-	3	2	40	60	100
			SBEC Practical-I	E-Designing Practical	1	2	2	40	60	100
	IV		NMEC-I	Fundamentals of Textile	2	-	2	25	75	100
	IV		NMSDC	Digital Skills for Employability - Microsoft Office Essentials	2	-	2	25	75	100

					30	22	800			
SEM	PART	PAPER CODE	COURSE CODE	COURSE	HRS		Credit	MARKS		
					L	T/P		CIA	EA	TOTAL
IV	III		Language	Tamil-IV	2	4	3	25	75	100
			Core -IV	Textile Wet Processing	3	-	3	25	75	100
			Core -V	Fashion Marketing	3	1	4	25	75	100
			Allied-IV	Home Textiles	3	-	3	25	75	100
			Core Practical-IV	Women's Apparel Practical	-	4	2	40	60	100
	IV		Core Practical-V	Textile Wet Processing Practical	-	3	2	40	60	100
			Naan Mudhalvan Skill Course-	Employability Skills-Microsoft	2	-	2	25	75	100
	IV		SBEC Practical -II	Fashion Accessories & Embellishment Practical	-	3	2	40	60	100
			NMEC-II	Fundamentals of Designing	1	1	2	25	75	100
					30	23	900			
V	15 Days Internship to any Textile Processing / Garment Industry									
	(viva voce for the internship training in V semester)									
	III		Core VI	Apparel Production Management	4	-	4	25	75	100
			Core VII	Textile Finishing	4	-	4	25	75	100
			Core VIII	Entrepreneurship Development	4	-	4	25	75	100
			MBEC-I	Apparel Quality Assurance	4	-	4	25	75	100
			Core Practical-VI	Men's Apparel Practical	-	4	2	40	60	100
			Core Practical-VII	Fashion Draping Practical	-	4	2	40	60	100
			Internship	Internship Project Viva-Voce	-	-	-	-	-	-
	IV		SBEC Practical -III	Computer Aided Pattern Designing Practical	-	4	2	40	60	100
IV		NMSDC	Marketing and Design Tools (Other Arts)-Digital Marketing	2	-	2	25	75	100	
					30	24	700			
VI	III		Core-IX	Apparel Merchandising	5	-	5	25	75	100
			Core X	Fashion Business Start Up	5	-	5	25	75	100
			MBEC-II	International Trade And Documentation	4	-	4	25	75	100
			Core Practical-VIII	Garment Analysis & Product Development Practical	1	4	3	40	60	100
			Core Practical-IX	Portfolio Presentation-Viva Voce	2	4	4	40	60	100
<b>iv</b>			<b>Naan Mudhalvan Skill Course</b>	<b>Employability Skills</b>	<b>2</b>		<b>2</b>			

IV	<b>SBEC Practical -IV</b>	<b>Beauty Care Practical</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>40</b>	<b>60</b>	<b>100</b>
	<b>Extension Activity</b>	<b>Extension Activity</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>
			<b>30</b>	<b>26</b>			<b>600</b>	
			<b>180</b>	<b>142</b>			<b>4500</b>	

**SBEC- Skill Based Elective Courses**

**NMEC – Non-Major Elective Courses**

**MBEC – Major Based Elective Courses**

**VIII. PASSING RULES Theory**

- 75% of the marks for external evaluation and 25% marks are allotted for internal evaluation.
- Candidate is demand to have passed to a subject, if he/she get a minimum of 40% of total marks in theory subjects with internal mark of 10 marks and external marks of 30 marks.

**Practical**

- 60% of the marks for external evaluation and 40% marks are allotted for internal evaluation.
- For practical subjects, the candidate should get minimum marks of 24 marks in external evaluation out of 60 and 16 marks in internal evaluation out of 40.
- For project viva voce, 80 % of the marks for internal evaluation and 20% marks are allotted for External evaluation.
- For project, the candidate should get minimum marks of 32 marks in internal evaluation out of 80 and 8 marks in External evaluation out of 20.



**QUESTION PAPER PATTERN**

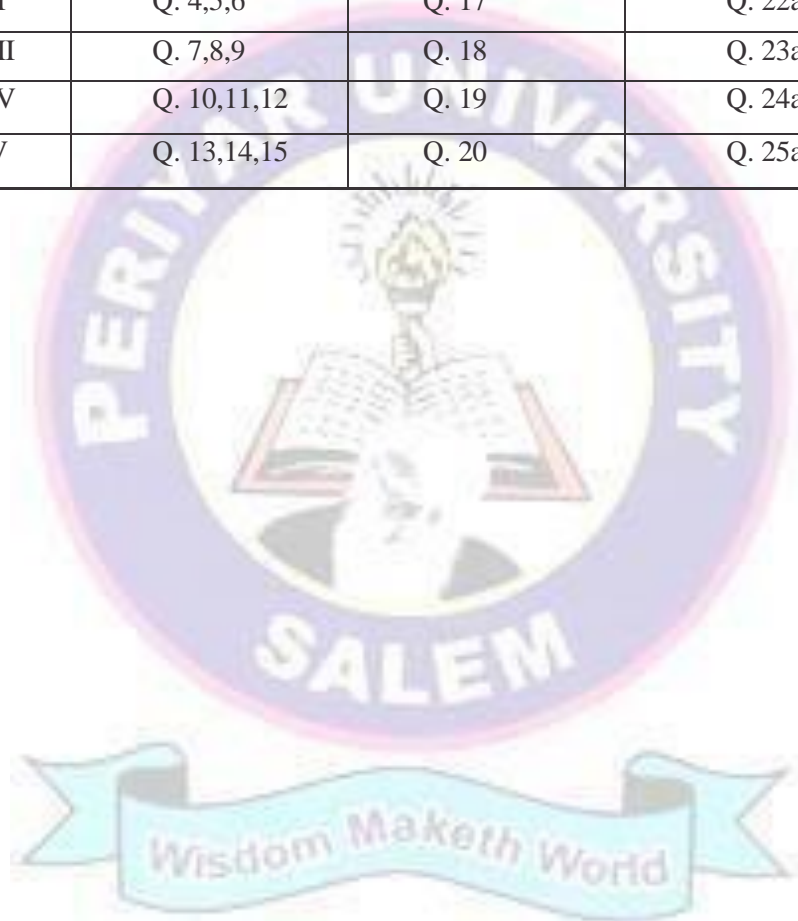
**THEORY**

**QUESTION PAPER PATTERN**

**Time: 3 Hours**

**Total Marks: 75 Marks**

<b>Unit</b>	<b>Section-A</b>	<b>Section-B</b>	<b>Section-C</b>
I	Q. 1, 2,3	Q. 16	Q. 21a,21b
II	Q. 4,5,6	Q. 17	Q. 22a,22b
III	Q. 7,8,9	Q. 18	Q. 23a,23b
IV	Q. 10,11,12	Q. 19	Q. 24a,24b
V	Q. 13,14,15	Q. 20	Q. 25a,25b



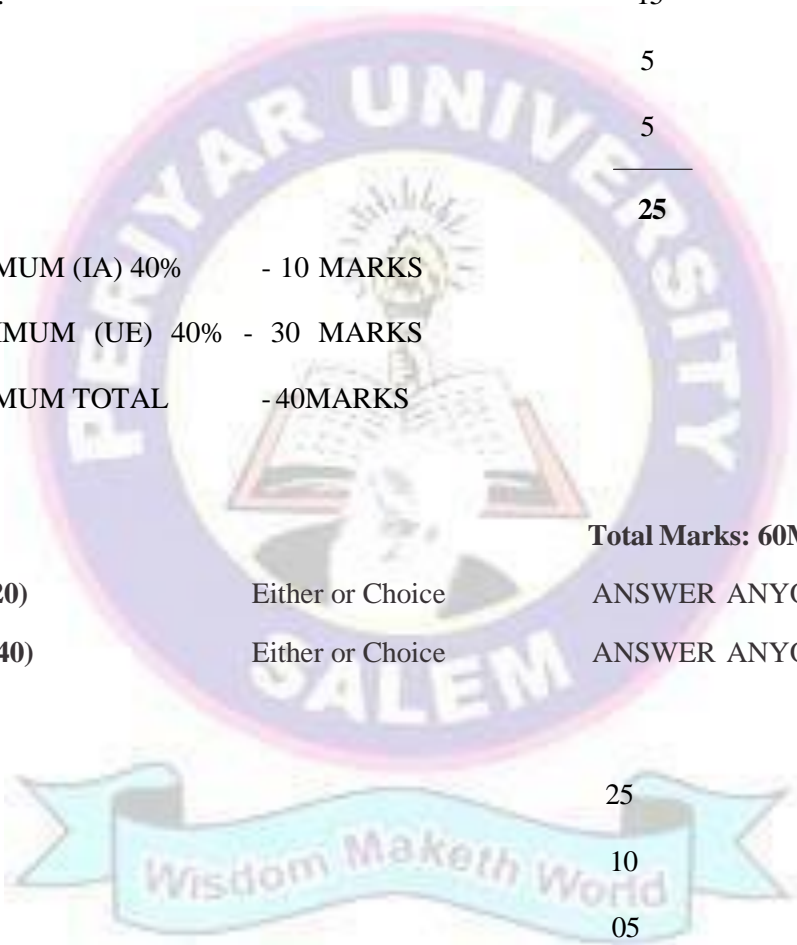


**SECTION A (15 x 1 = 15)**  
**ANSWER ALL THE QUESTIONS**

**SECTION B (5 x 2 = 10)**  
**ANSWER ANY TWO QUESTIONS**

**SECTION C (5 x 10 = 50)**  
**EITHER OR CHOICE**  
**ANSWER ALL THE QUESTIONS**

INTERNALASSESSMENT	MARKS
TEST :	15
ASSIGNMENT :	5
ATTENDANCE:	5
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 25
PASSING MINIMUM (IA) 40% - 10 MARKS	
PASSING MINIMUM (UE) 40% - 30 MARKS	
PASSING MINIMUM TOTAL - 40MARKS	
 <b>PRACTICAL:</b>	
<b>Time: 3 Hours</b>	<b>Total Marks: 60Marks</b>
<b>SECTION A (1X20= 20)</b>	Either or Choice ANSWER ANYONE
<b>SECTION B (1 X40= 40)</b>	Either or Choice ANSWER ANYONE
 <b>INTERNALMARKS:</b>	
RECORD:	25
SAMPLE:	10
ATTENDANCE:	05
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 40 MARKS
 <hr style="width: 100%;"/>	
PASSING MINIMUM (IA) 40% - 16 MARKS	
PASSING MINIMUM (UE) 60% - 24 MARKS	
PASSING MINIMUM TOTAL - 40MARKS	



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# SEMESTER I

Course Code	PATTERN MAKING & GRADING			L	T	P	C
CORE-I				4	2	-	5
Basics of Garment Production				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
1. To Impart the students ability to create design through flat pattern technique. 2. To impart the techniques of dart manipulation. 3. To enable the students to learn the skills of standardizing body measurements.							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to learn as follows:							
1	Remembering pattern making terminology and steps in taking body measurements.					K1	
2	Understanding the pattern making techniques.					K2	
3	Applying the Drafting/ Draping and Pattern alteration technique in designing.					K3	
4	Analyzing the grain of fabric and standards of good fit.					K4	
5	Understand the pattern alteration techniques.					K2	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>BODY MEASUREMENTS</b>						
Importance, Preparation for measuring, Girls and Ladies measurements, Boy's and Men's measurements. Standardizing body measurements, Importance, Techniques used. Relative length and girth measurements. Preparation of standardized measurement chart.							
<b>Unit:2</b>	<b>DRAFTING</b>						
Pattern making terminology, Methods of pattern making, Types of paper patterns, Pattern making tools, Steps in drafting Bodice front, Bodice back, Sleeve, Skirt front and back, Collar- one piece peter pan and shirt collar. Dart Manipulation, Technique-Slash and Spread method and Pivotal method. Study of commercial pattern, Merits & Demerits. Preparation of commercial pattern for kids. Fitting – Standards of a good fit, Steps in preparing a blouse for fitting, checking the fit of a blouse.							
<b>Unit:3</b>	<b>DRAPING</b>						
Draping -Definition and Meaning, Need for draping, Importance of Draping Technique, Advantages and Disadvantages, Tools and Equipment's used for Draping, Preparation of dress form. Importance of grain, preparation of Muslin Material, straightening, tearing and pressing.							
<b>Unit:4</b>	<b>GRADING AND PREPARATION OF FABRIC FOR CUTTING</b>						
Grading-Introduction and importance of grading, Manual Grading of basic bodice – front and back, Sleeve, skirt and Collar, Computerized Grading. Basic terms: Grain, Selvedge, On grain, Off Grain, Off Grain Print, With the Grain, Against the Grain, Importance of Grain in Fabric. Cutting -Preparing the Fabric for Cutting, Methods of straightening fabric ends, Methods of straightening fabric grain, shrinking fabrics.							

<b>Unit:5</b>	<b>PATTERN ALTERATION AND LAYOUT</b>
Importance of altering patterns, Principles for pattern alteration, common pattern alteration in blouse. Pattern layout - Definition, Purpose, Rules in layout, Types of layout and Special layouts. Piecing, transferring pattern markings.	
<b>Text Book(s)</b>	
1	Mary Mathews, Practical Clothing Construction- Part I and II, - Cosmic Press, Madras,1990
2	Helen Joseph Armstrong, (2014).Pattern Making for Fashion Design.5 <sup>th</sup> editions. India: Dorling Kindersley
3	Gayatri Verma, (2006).Cutting and Tailoring Course. New Delhi: Asian publishers.
4	Connie Amaden Crawford, (2005).The Art of Fashion Draping III Edition. OM Books International.
5	Lori A. Knowles, (2005).The Practical <i>Guide to Pattern Making for Fashion Designers</i> . New York: Fair Child, Publications, Inc.
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://textilelearner.blogspot.com/2014/03/methods-off-garment-parttern-grading.html">https://textilelearner.blogspot.com/2014/03/methods-off-garment-parttern-grading.html</a>
2	<a href="https://www.threadsmagazine.com/2008/11/01/making-sense-of-pattern-grading">https://www.threadsmagazine.com/2008/11/01/making-sense-of-pattern-grading</a>
3	<a href="https://www.clothingpatterns101.com/pattern-grading.html">https://www.clothingpatterns101.com/pattern-grading.html</a>



Course Code	BASICS OF APPAREL DESIGNING PRACTICAL			L	T	P	C
	ALLIED PRACTICAL-I			1	-	2	3
Basic Knowledge of Garment Production				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
<ol style="list-style-type: none"> <li>To impart practical exposure in sewing operation.</li> <li>To acquaint students with the knowledge on basic sewing techniques.</li> <li>To impart the knowledge and skills required for garment designing.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Applying basic sewing techniques					K3	
2	Analyzing the essential techniques for garment designing					K4	
3	Evaluating the material consumption, cost calculation and overall finished samples					K4	
4	Remember the basics of pattern making					K1	
5	Create suitable patterns for garment design and body variations					K6	
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create							
<ol style="list-style-type: none"> <li>Preparation of Samples for Seams and Seam Finishes.</li> <li>Preparation of Stitches ((Class 100 to Class 600))</li> <li>Preparation of Samples for Hems.</li> <li>Preparation of Samples for Fullness. (Darts, Tucks, Pleats, Gathers, Flares, Ruffles, Godets and Gathers)</li> <li>Preparation of Samples for Facing and binding.(Any2)</li> <li>Preparation of Samples for Plackets and fasteners.(Any2)</li> <li>Preparation of Samples for different Sleeves.(Any2)</li> <li>Preparation of Samples for different Collars.(Any2)</li> <li>Preparation of Samples for different Yokes.(Any2)</li> <li>Preparation of Samples for different pockets(Any2)</li> </ol>							
<b>Text Book(s)</b>							
1	Gayatri Verma and Kapil Dev, (2006). <i>Cutting and Tailoring Course</i> . New Delhi: Asian Publishers						
2	.K R Zarapker, (2005). <i>Zarapker System of Cutting</i> . New Delhi: Navneet Publications Ltd.						
3	Thangam Subramaniam, (2006). <i>Dress Making- Bombay Tailoring and Embroidery College</i>						
4	Ruth Sleight Johnson, (2011). <i>Practical sewing techniques</i> . London :A&C Black publishers						
<b>Related Websites</b>							
1	<a href="https://ecourseonline.iasri.res.in/mod/page/view.php?id=114171">https://ecourseonline.iasri.res.in/mod/page/view.php?id=114171</a>						
2	<a href="https://www.fibertofashion.com/industry-article/5658/basic-of-pattern-making">https://www.fibertofashion.com/industry-article/5658/basic-of-pattern-making</a>						
3	<a href="https://www.clothingpatterns101.com/style-lines.html">https://www.clothingpatterns101.com/style-lines.html</a>						



Course Code	<b>FASHION ILLUSTRATION &amp; SKETCHING PRACTICAL</b>			L	T	P	C
<b>ALLIED PRACTICAL-II</b>				2	-	1	3
<b>Basic Knowledge of Fashion Sketching</b>				<b>Syllabus</b>		<b>2022 Onwards</b>	
<b>Course Objectives:</b>							
<ol style="list-style-type: none"> <li>1. Students will learn the basic objects drawing and shades.</li> <li>2. They will learn basic head theories and draw human figures at different angles</li> <li>3. They will create garment design for various seasons on fashion figures.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Applications of cosmetics is studied						K4
2	Sketch garment designs following the various elements of design						K3
3	They will draw various landscapes and design the interiors						K6
4	Create garment designs for various seasons						K6
5	Illustrate human figures for a child, woman and man						K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Prepare sketches for the following</b>							
<ol style="list-style-type: none"> <li>1. Different types of Collar, Sleeve, Neckline, Skirts.</li> <li>2. Different types of Ladies Tops, Shirt, Pant(Full and half)</li> <li>3. Different types of Accessories – Bags, Footwear, Hats etc.</li> <li>4. Different types of Ornaments</li> <li>5. Facial Features – Eyes, Nose , Lips, Ears</li> <li>6. Face, Hands, Legs – Different Positions</li> <li>7. Lay Figure -7 1/2 Head</li> <li>8. Fashion Figure -8, 10, 12 Head.</li> </ol>							
<b>Text Book(s)</b>							
1	Patric John Ireland, Fashion Design Illustration –Women, B.T. Batsfort Ltd, London (1993).						
2	Patric John Ireland, Fashion Design Drawing and Presentation, B. T. Batsfort Ltd, London (1982).						
3	Patric John Ireland, Fashion Design Illustration –Men, B. T. Batsfort Ltd, London (1996).						
4	Wolfgang. H. Hageney, Checks And Stripes –Classic Variations in Colour Vol. I, Belveden (1997).						

# SEMESTER II



Course code	FASHION DESIGN CONCEPTS & METHODOLOGY			L	T	P	C
CORE-II				3	1	-	4
Basic of design concepts and methodology				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
The main objectives of this course are to:							
1. To acquaint the student with the history of fashion and its elements.							
2. To impart knowledge on fashion art and its importance.							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Understand the design types, elements and principles of design						K2
2	Appraise the color combinations with standard color harmonies						K5
3	Interpret the fashion cycles, consumer groups and fashion theories						K3
4	Develop dress design for unusual figure types						K6
5	Define and describe the fashion terminologies and fashion profiles						K1
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Design Elements and Principles</b>						
Introduction to fashion- Fashion Definition – Fashion terminologies – Classification of fashion – Fashion cycle –Factors influencing in fashion – Role and responsibilities of a fashion designer – Types of fashion designers.							
<b>Unit:2</b>	<b>Standard Colour Harmonies</b>						
Elements of design- Introduction to design – Types of design – Elements and their importance in a design – Line – Types – Application of line in a garment –Influence of line in various illusion - Shape – Types – Importance of shape in garment design – Texture – Determinants of texture – Effect of texture on color & physical proportion.							
<b>Unit:3</b>	<b>Fashion Evolution and Fashion Forecasting</b>						
Color & Color theory Introduction to color theories – Dimensions of color – Color systems – Warm and cool colors – color schemes – Application of color in fashion design – Visual impact of color in a garment – Importance of color psychology.							
<b>Unit:4</b>	<b>Designing Dresses for Unusual Figures</b>						
Principles of design, Importance of principles of design in fashion – Balance and its types – Proportion and its application in garment design – Emphasis – Creating emphasis in a garment using various techniques – Harmony and its impact in garment design – Rhythm – Application of rhythm in garment design.							
<b>Unit:5</b>	<b>Fashion Terminologies and Fashion Profiles</b>						
Introduction to fashion style details and various garments Importance of details in apparel design – Various types of neck, collar & sleeve – Different types of waist & hem lines – Types of plackets, Pockets- Garments for men, women and kids – Unisex garments – Intimate , active and functional garments							
<b>Text Book(s)</b>							
1	Injoo Kim & Mykyung Uh, —Apparel Making in Fashion Designll, Fair child Publications, New York (2002).						
2	Bride M. Whelan, —Colour Harmony – A Guide to Creative Colour Combinationsll, Rockport Publishers, USA (1997).						



3	James Stockton, —Colorl, Chronicle Book Publishers, San Francisco (1984).
4	Axel Venn, —Color Kaleidoscope, Model, Information Group (1997).
5	Sumathi.G.J, —Elements of Fashion and Apparel Designl, New Age International (P) Ltd, New Delhi (2002).
6	Patric John Ireland, —Fashion Design Drawing and Presentationl, B.T. Batsfort Ltd, London (1982)
7	Jenny Davis, —A Complete Guide to Fashion Designingl, Bharat Bhushan Abhishek Publication (2006).
8	Kathryn Mckelvey & Janine Munslow, —Fashion Designl, Blackwell Publication (2003).



Course Code	FIBER & YARN SCIENCE			L	T	P	C
ALLIED-I				4	-	-	4
Basics of Fibre and Yarn Production				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. To facilitate the students to understand the structural features of Fibers and Yarn.</li> <li>2. To investigate techniques of textile fibers and yarn with its manufacturing Process.</li> <li>3. To learn the Properties and behavior of Fibers and Yarn.</li> <li>4. To gain knowledge in Advanced Spinning System.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Remember the molecular conformations of many textile fibers.						K1
2	Understand the new process of textile fibers and filament yarns.						K2
3	Apply the techniques of yarn pre-production in textile industry.						K3
4	Analyze the yarn production methods and techniques						K4
5	Understand the post production process of yarn.						K2
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Introduction of Textile Fibers</b>						
Introduction to Textile fibers - Definition, Classification of fibers - Essential and Desirable properties - Natural fibers- cotton, linen, silk, wool, Jute, - Manufacturing, Physical and chemical Properties and end uses. Brief study of fibres - Kapok, Bamboo, Banana, Coir, Sisal, Hemp, Soy bean.							
<b>Unit:2</b>	<b>Filament Spinning System</b>						
Manmade fibers - Polyester, Nylon. Regenerated fibers – Viscose rayon, Modal, Manufacturing, Physical, chemical Properties and end uses. Brief study of Kevlar, spandex/ Lycra, Lyocell and Glass fibres.							
<b>Unit:3</b>	<b>Pre-Production Process</b>						
Ginning – Objects – Types of Ginning - Working principle of knife roller gin. Blow room process – objects of mixing, objects of blow room, working principles of axi-flow cleaner, kirschner beater, lap forming Unit (Scutcher) - cleaning efficiency.							
<b>Unit:4</b>	<b>Yarn Production Process</b>						
Carding – Objects, working principles of modern carding. Draw frame – Objects, Roller drafting working principles of draw frame. Comber – Objects, working principles. Simplex – Objects, working principles, Spinning (Ring frame) – Objects, Working principles.							
<b>Unit:5</b>	<b>Post Yarn Production Process</b>						
Yarn – Definition, Classification, simple, fancy and sewing threads, manufacturing process. Yarn twist – classification of twist, yarn count systems.							
<b>Text Book(s)</b>							
1	A Text Book of Fiber Science and Technology, Mishra, S.P, New Age International (P) Ltd Publishers, New Delhi 2000.						
2	Spun Yarn Technology, Eric Oxtoby, Butterworth-Heinemann, Published in 1987.						
3	The Motivate Series – Textiles, Wynne, A, Publisher : Macmillan Education Ltd., London, 1997.						

4	Hand Book of Textile Fibers – Vol. I & Vol. II. Gordon Cook, J, Wood Head Publishing Ltd., Cambridge, England, 1984.
5	Man-made Fibers, Moncrieff, W, Butterworth Scientific Publication, 1975.
6	Handbook of Textile Fibers: Natural Fibers, J Gordon Cook , Wood head publication Limited, 1984.
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://textilelearner.blogspot.com/">https://textilelearner.blogspot.com/</a>
2	<a href="https://www.textiletoday.com.bd/category/innovations/fiber-yarn-fabric/">https://www.textiletoday.com.bd/category/innovations/fiber-yarn-fabric/</a>
3	<a href="https://study.com/academy/lesson/textile-yarns-definition-types-classification.html">https://study.com/academy/lesson/textile-yarns-definition-types-classification.html</a>



Course code		FASHION DESIGN CONCEPTS & METHODOLOGY PRACTICAL	L	T	P	C
CORE PRACTICAL-I			1	-	3	3
Fundamentals of Fashion Sketching			Syllabus		2022 Onwards	
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ul style="list-style-type: none"> <li>To develop the skill of free hand drawing &amp; sketching, in order to visualize and analyze, observe &amp; communicate ideas and concepts.</li> <li>To learnt the basic principle of designs &amp; color concepts</li> </ul>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
1	Develop Prang colour chart, value and intensity chart					K6
2	Illustrate human figures for a child, woman and man					K4
3	Sketch garment designs following the various elements of design					K3
4	Apply the principles of design and colour harmonies in the garments					K3
5	Create garment designs for various seasons					K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1. Prepare the following Charts</b>						
<ul style="list-style-type: none"> <li>Prang colour chart,</li> <li>Value chart</li> <li>Intensity chart</li> </ul>						
<b>2. Illustrate Human Figure for the Following Heads</b>						
<ul style="list-style-type: none"> <li>Child - 6 head</li> <li>Women – 8 head, 10 head and 12 head</li> <li>Man – 10 head</li> </ul>						
<b>3. Illustrate Garment Designs for the Elements of Design (3 each)</b>						
<ul style="list-style-type: none"> <li>Line</li> <li>Texture</li> <li>Shape</li> </ul>						
<b>4. Illustrate Garment Designs for the Principles of Design</b>						
<ul style="list-style-type: none"> <li>Balance (Formal and Informal)</li> <li>Harmony</li> <li>Emphasis</li> <li>Proportion</li> <li>Rhythm (by Repetition, Gradation and Line Movement)</li> </ul>						
<b>5. Illustrate the Colour Harmony in Dress Design</b>						
<ul style="list-style-type: none"> <li>Monochromatic</li> <li>Analogous</li> <li>Complimentary</li> </ul>						

<ul style="list-style-type: none"> <li>• Double complementary</li> <li>• Split complementary</li> <li>• Triad</li> <li>• Neutral</li> </ul>	
<b>6. Create Garments for the Following Seasons</b>	
<ul style="list-style-type: none"> <li>• Summer</li> <li>• Winter</li> <li>• Autumn</li> <li>• Spring</li> </ul>	
<b>Text Book(s)</b>	
1	Fashion Sketch Book, Bina Abling, Fair Child Publications, New York Wardrobe, 1988.
2	Illustrating Fashion, Kathryn McKelvey and Janine Munslow, Blackwell Science, 1997.
3	Art and Fashion in Clothing Selection , Mc Jimsey and Harriet, Iowa State University Press, Jowa,1973.
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
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>





# SEMESTER III



Course Code	FABRIC SCIENCE			L	T	P	C
Core-III				3	2	-	4
Fundamentals of woven and knitted fabric production				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
<ol style="list-style-type: none"> <li>1. To impart knowledge on woven fabrics</li> <li>2. To help students to understand fabric formation process.</li> <li>3. To impart knowledge on woven fabric designs and structures.</li> <li>4. To learn about knitting</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Explain the preparatory processes involved in the production of fabrics						K1
2	Explain the principles of different fabric production methods						K2
3	Understand different structures of woven fabric						K3
4	Analyse the knitting process						K5
5	Evaluate the working principles of knitting machines						K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Preparatory Process</b>						
<b>Introduction-</b> Classification of fabric forming methods- weaving preparatory processes - pirn winding – Objects - Passage of material through an automatic high speed pirn winder. Objects of warping – Types of warping – Passage of material through high speed modern beam warping machine & sectional warping machine							
<b>Unit:2</b>	<b>Weaving Mechanisms</b>						
<b>Loom Mechanisms</b> - Passage of material through a plain power loom – Basic mechanisms of a loom – Primary, secondary & auxiliary motions – Tappet shedding – Cone over pick & under pick mechanisms – Beat up mechanism – Types of let off & take up mechanisms – Fabric defects, causes & remedies							
<b>Unit:3</b>	<b>Basic Weaves</b>						
<b>Introduction to Weaves</b> – Weave diagram – Plain weave & derivatives – Twill weave & derivatives – Satin & sateen weaves – Ordinary and Brighten Honey Comb; Huck-a-Back; Mock Leno; extra warp and extra weft figuring – single and double color.							
<b>Unit:4</b>	<b>Knitting</b>						
Knitting – Definition, classification and history. Types of knitting – hand and machine - characteristics of knitted goods. General terms and principles of knitting Technology, Machine knitting, parts of machine, knitted loop structure, stitch Density.							
<b>Unit:5</b>	<b>Knitting Machines</b>						
<b>Weft Knitting</b> – classification – circular rib knitting machine, purl interlock, Jacquard – single Jersey machine– basic knitting elements – types and functions – knitting cycle, cam system – 3way technique to develop design – knit, tuck, miss – effect of stitches on fabric properties.							
<b>Warp Knitting</b> -lapping variations-tricot, raschel, simplex and Milanese -kitten raschel -single bar, 2 bar, multi bar machines. Types of threading, production of nets, curtains, heavy fabrics and elasticized fabrics.							
<b>Text Book(s)</b>							
1	R.Marks, A.T.C. Robinson, Principles of Weaving, The Textile Institute, Manchester (1976)						
2	B.Hasmukhrai, Fabric Forming, SSM ITT Cooperative stores Ltd, Komarapalayam (1996).						

3	K.T.Aswani, Fancy Weaving Mechanism, Mahajan Book Distributors, Ahmadabad (1990).
4	N.Gokarneshan, Fabric Structure and Design, New Age International Publishers, New Delhi(2004).
5	David spencer, —Knitting technology, pergamen press, Oxford (1982)
6	D B Ajgonker, —Principles of knitting, Universal publishing corporation.(1998)

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

1	<a href="https://www.cottonworks.com/topics/sourcing-manufacturing/weaving/basic-woven-designs-introduction-to-woven-fabric/">https://www.cottonworks.com/topics/sourcing-manufacturing/weaving/basic-woven-designs-introduction-to-woven-fabric/</a>
2	<a href="https://www.textileschool.com-453-wovendesign-">https://www.textileschool.com-453-wovendesign-</a>
3	<a href="https://www.intechopen.com/books/advances-in-modern-woven-fabric-technology/color-and-weave-relationship-in-woven-fabric">https://www.intechopen.com/books/advances-in-modern-woven-fabric-technology/color-and-weave-relationship-in-woven-fabric</a>





Course code		<b>HISTORIC COSTUMES OF INDIA</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>ALLIED - II</b>			<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>History of Indian Costumes</b>			<b>Syllabus</b>		<b>2022 Onwards</b>	

**Course Objectives:**

The main objectives of this course are to:

1. To learn the traditional costumes of India.
2. To review the Indian history of costumes.

**Expected Course Outcomes:**

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

1	Analyze fashion evolution	K4
2	Understanding the dyed and printed textiles of India	K2
3	Remembering the traditional costumes of Indian states	K1
4	Understand the traditional embroideries of India	K2
5	Evaluate Indian Jewellery	K5

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

**Unit:1 Fashion Evolution**

**Fashion Evolution** -Beginning of Civilization –costumes of men and women: Ancient Greek Ancient Roman, Ancient Egyptian, and French costumes at 17th century. **Indian Costumes** Beginning of costumes- Pre Vedic Era & Post Vedic Era: Mauryan, Kushan Dynasty, Gupta Dynasty - Mughal Period - Costumes of the British Raj.

**Unit:2 Dyed and Printed Textiles of India**

**Dyed and Printed Textiles of India** -Process Of Dyed And Printed textiles of India: Kalamkari, Ikkat, Bandhani, Batik, Bagru Hand woven textiles of India: Dacca Muslin, Banarasi/ Chanderi, Brocades, Baluchari, Himrus and Amrus, Kashmiri shawls, Pochampalli Sarees, Silk sarees of Kancheepuram.

**Unit:3 Traditional Costume of Different States of India**

**Traditional Costume of Different States of India** -Tamil Nadu , Kerala , Andhra Pradesh Karnataka, Assam, Orissa, Bihar, Karnataka, West Bengal, Maharashtra, Rajasthan, Haryana, Uttar Pradesh, Jammu and Kashmir, Gujarat, Madhya Pradesh.

**Unit:4 Traditional Embroideries of India**

**Traditional Embroideries of India** - Origin ,Embroidery stitches used –embroidery of Kashmir, Phulkari of Punjab ,Gujarat – Kutch and Kathiawar, embroidery of Rajasthan , Kasuti of Karnataka ,Chicken work of Lucknow, Kantha of Bengal – in all the above – types and colors of fabric /thread.

**Unit:5 Indian Jewellery**

**Indian Jewellery**– jewellery used in the period of Indus valley civilization ,Mauryan period Gupta Period , the Pallava and Chola Period ,Symbolic Jewellery of South India,Mughal period. Temple Jewellery of South India, Tribal jewellery.A brief study of gems and precious stones.

**Text Book(s)**

1	G.H Ghosrye, —Indian Costume, Popular books Pvt Ltd
2	Jamila Brij Bhushan, D B Tarapore, —The costumes and textiles and India, vala Sons & Co, Bombay (1958)
3	Das S.N, DB Tarapore, —Costumes of India and Pakistan, vala Sons and co, Bombay (1956).
4	Francois Boucher, —History of Costumes in the West
5	Elizabeth Ewing, —History of 20th Century Fashion, [Revised By -Alice Macrell].

Course Code	FASHION CLOTHING PSYCHOLOGY			L	T	P	C
Allied-III				4	-	-	4
Basics of Fashion Psychology				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
<ul style="list-style-type: none"> <li>To elaborate the role of fashion &amp; clothing in communication of cultural practices, which are enables to understand the function of a garment.</li> <li>To explore meaning of fashion and clothing for designer.</li> </ul>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Remembering the origin of Fashion						K1
2	Understanding the focus of fashion						K2
3	Appraise the movement of fashion and its factors						K5
4	Analyse the various fashion designers						K2
5	Evaluate an international fashion centers						K5
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create							
<b>Unit:1</b>	<b>Fashion</b>						
Origin of Fashion – Importance of fashion - Development of fashion, Components of fashion -, Design Details, Texture, Color and Silhouette. Types of silhouette Natural Body, Slim line, Wedge, Hour Glass, Extreme Volume Silhouette.							
<b>Unit:2</b>	<b>Fashion Focus</b>						
Fashion Focus – The designers Role, The Manufacturers Role, The Retailers Role, Scope of Fashion Business – Primary Level, The Secondary Level, The retail level and the Auxiliary level. Study about International Designers – Fashion related cycle and theories.							
<b>Unit:3</b>	<b>Movement of Fashion</b>						
The Movement of Fashion - Factors influencing fashion movement-Accelerating factors, Retarding factors, and Recurring fashions. Predicting the movement of fashion.							
<b>Unit:4</b>	<b>Designers</b>						
Types of designers – High fashion Designer, Stylist, and Freelance Designer. Sources of design inspiration. Indian fashion Designers-Manish Malhotra, Ritukumar, Rituberri, TarunTahilani, Wendell Rodricks, Abu Jani and Sandeep Khosla, JJ Valaya, Rina Dhaka, Manish Arora, and Rohit Bal.							
<b>Unit:5</b>	<b>International Fashion Centers</b>						
Study of International Fashion centers – France, Italy, England, Germany, Canada, NewYork. Study of International Fashion Brands–Women's Wear, Men's Wear, Kids Wear, Sports Wear, Cosmetics and Accessories.							
<b>Text Book(s)</b>							
1	Elainestone, “ <b>The Dynamics of Fashion</b> ”, Fair child publications, New York, 2001.						
2	Gini Stephan Friengs — <b>Fashion from concept to consumer</b> ”, [Sixth Edition], Prentice Hall.1999.						

Course code	<b>CHILDREN'S APPAREL PRACTICAL</b>				L	T	P	C
<b>Core Practical -II</b>				-	-	4	2	
<b>Basic Construction Techniques of Children's Garments</b>						<b>Syllabus</b>	<b>2022</b>	<b>Onwards</b>
<b>Course Objectives:</b>								
1.Designing, drafting and constructing the following garments for the features Prescribed								
2.List the measurements required and materials suitable Calculate the cost of the garment								
3.Calculate the material required-Layout method and direct measurement Method								
<b>Expected Course Outcomes:</b>								
On the successful completion of the course, student will be able to:								
1	Learn specific requirements for children's wear designing.							K2
2	Prepare patterns & construct the garments.							K2
3	Assess the suitability of fabric for children							K5
4	Discover new techniques in pattern and garment construction							K4
5	Select the necessary tools needed for sewing							K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>								
<b>Designing, drafting and constructing the following garments for the features prescribed in the following criteria.</b>								
<ul style="list-style-type: none"> <li>• Measurements chart</li> <li>• Layout method</li> <li>• Break down analysis of the garment</li> <li>• Sequence of Assembling and its procedures.</li> <li>• Type of seam for each assembly process.</li> <li>• CMT costing and garment costing</li> </ul>								
<b>CHILDREN'S GARMENTS</b>								
1. Bib- Variation in outline shape								
2. Panty-plain or plastic lined panty								
3. Jabla- without sleeve, front open (or) Magyar sleeve, back opens								
4. Baba suit- knicker with chest piece attached (or) Romper								
5. A-Line Frock- double pointed dart, neck line and arm hole finished with facing								
6. Summer frock- with suspenders at shoulder line, without sleeve/collars(or) Angel top with raglan sleeve, fullness at neck line								
7. Yoke frock- yoke at chest line, with open, puff sleeve, gathered skirt9OR0 frock- with collar, without sleeve, gathered/ circular skirt at waist line(or) Princess line frock								
8. Knicker- elastic waist, side pockets.								
9. Shirt- open collar, with pocket								
<b>Text Book(s)</b>								
1	Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)							
2	Zarapker System of Cutting- Zarapker. K. R, Navneet Publications ltd.							
3	Cutting & Tailoring course, Gayathri Verma & Kapil Dev, Computech Publications							
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>								
1	<a href="https://epgp.inflibnet.ac.in/home/viewssubject?catid=827">https://epgp.inflibnet.ac.in/home/viewssubject?catid=827</a>							
2	<a href="https://www.youtube.com/watch?v=LuazkYL0j3a">https://www.youtube.com/watch?v=LuazkYL0j3a</a>							
3	<a href="https://www.youtube.com/watch?v=nI-shbmnuVg">https://www.youtube.com/watch?v=nI-shbmnuVg</a>							

Course code	FIBRE TO FABRIC SCIENCE PRACTICAL			L	T	P	C
Core Practical- III				-	-	3	2
Analytical Study of Textile Fibres, Yarns and Fabrics					Syllabus		2022 Onwards
<b>Course Objectives:</b>							
<ul style="list-style-type: none"> <li>To determine and testing of textile fibres and yarns</li> <li>To identify the different types of weaves</li> <li>To understand the woven fabrics designs</li> </ul>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Remembering of fibre identification						K1
2	Evaluating yarn count and twist						K5
3	Analyze the various woven fabric design						K4
4	Understanding of fabric particulars						K2
5	Create fibre to fabric analysis systems						K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>LIST OF EXPERIMENTS</b>							
<ol style="list-style-type: none"> <li>Identification of fibers- Cotton, Silk, Wool, Polyester, Viscose, Nylon</li> <li>Determination of blend proportion of P/C, P/V,P/W blends</li> <li>Determination of Yarn count</li> <li>Determination of Yarn Twist</li> <li>Determination of Fabric Count (EPI x PPI) <ul style="list-style-type: none"> <li><b>Analysis of following fabrics for Design, Draft, Peg Plan, Ends per inch, Picks per inch, Dents per Ends, Yarn count, Yarn crimp, Cover factor &amp; Weight per square yard of fabrics.</b></li> </ul> </li> <li>Plain weave and its derivatives</li> <li>Twill weaves – 2/1, 3/1.</li> <li>Satin / Sateen</li> <li>Pointed Twill Weave</li> <li>Honey comb</li> <li>Huck – a – back</li> <li>Crepe weaves</li> <li>Extra Warp – Dobby &amp; Jacquard Weave</li> <li>Extra Weft- Dobby &amp; Jacquard Weave</li> <li>Mock leno</li> <li>Pile weave</li> </ol>							
<b>Text Book(s)</b>							
1	Handbook of Textile fibers, Woodhead Publications, (1984).						
2	N.Gokarneshan, Fabric Structure and Design, New Age International Publishers, New Delhi(2004).						



Course code	<b>E- DESIGNING PRACTICAL</b>				L	T	P	C
	<b>SBEC Practical-I</b>				1	-	2	2
<b>Basics of E-Designing Skills</b>						<b>Syllabus</b>		<b>2022</b> Onwards
<b>Course Objectives:</b>								
<ul style="list-style-type: none"> <li>• Aims to develop creative skills for visual Communication, principles &amp; color harmony designing.</li> <li>• Analyze, select &amp; apply tools appropriate for creating a design.</li> <li>• To develop designing skill for various costumes.</li> </ul>								
<b>Expected Course Outcomes:</b>								
On the successful completion of the course, student will be able to:								
1	Understanding of visual communication design							K2
2	Analyzing color harmony							K4
3	Applying color harmony in design							K3
4	Creating designs by using principles							K6
5	Evaluate the designing skills							K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>								
<b>1. Using design software create the following visual communication design</b>								
<ul style="list-style-type: none"> <li>• Create brand name &amp; design logo for it.</li> <li>• Design Visiting card, Letter pad &amp; Envelop design</li> <li>• Design a Calendar</li> <li>• Design Label for your brand</li> <li>• Design Tag for your brand</li> <li>• Design packing material for your brand</li> <li>• Practice in Lay-Out Design</li> <li>• Practice in Poster Design</li> <li>• Practice in Dangler Design</li> <li>• Practice in Hand bag Design</li> <li>• Practice in Hoarding Design</li> </ul>								
<b>2. Application of colour harmony in Design</b>								
<ul style="list-style-type: none"> <li>• Monochromatic 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 harmony</li> </ul>								
<b>3. Applications of principles of design in dress design</b>								
<ul style="list-style-type: none"> <li>• Balance –Formal and informal</li> <li>• Rhythm – by line movement, gradation, repetition.</li> <li>• Emphasis</li> <li>• Proportion</li> <li>• Harmony</li> </ul>								

#### 4. Design Garments for the following.

- Party Wear – Women, Men, Children.
- Sports Wear- Tennis, Basket ball/foot ball (men and Women), Golf, anyother.
- Fashion show – Children, men and women
- Winter Wear - Children, men and women
- Summer Wear - Children, men and women
- Spring Wear - Children, men and women
- School uniforms – Preschool, school, higher secondary and college going students-boys and girls.



Course Code	FUNDAMENTALS OF TEXTILE			L	T	P	C
NMEC-I				2	-	-	2
Basic Knowledge about Fibre to Fabric				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
<ol style="list-style-type: none"> <li>1. The subject aims to make the students different types of fabrics, yarn &amp; its use.</li> <li>2. To facilitate the students to understand the structural features of Fibers and Yarn.</li> <li>3. To investigate techniques of textile fibers and yarn with its manufacturing Process.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Gain Complete Knowledge about the fabric & yarn structure.						K2
2	Remember the molecular conformations of many textile fibers.						K1
3	Understand the new process of textile fibers and yarns.						K2
4	Remember and identify the constructional parameters of fabric.						K1
5	Understand how to construct, designs, draft and peg-plan for weaving the fabric.						K2
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create							
<b>Unit:1</b>	<b>Textile Fibres</b>						
Introduction to the field of Textiles – classification of fibres – natural and chemical – primary and secondary characteristics of textile fibres.							
<b>Unit:2</b>	<b>Manufacturing of fibres and their properties</b>						
Manufacturing process, properties and uses of natural fibres – cotton, linen, jute, pineapple, hemp, silk, wool, hair fibres, Man-made fibres – viscose rayon, acetate rayon- nylon, polyester, and acrylic.							
<b>Unit:3</b>	<b>Spinning Process</b>						
Spinning – definition, classification – chemical and mechanical spinning – blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning-Yarn classification – definition classification – simple fancy yarns, sewing threads and its properties .							
<b>Unit:4</b>	<b>Weaving process and woven fabrics</b>						
Woven – basic weaves- plain twill, satin, fancy weaves – pile, double cloth, leno, swivel, tappet, dobby and jacquard, weaving technology- process sequence – machinery details.							
<b>Unit:5</b>	<b>Non-Woven fabrics</b>						
Non- woven- felting, fusing, bonding, lamination, netting, braiding and calico, tating and crocheting.							
<b>Text Book(s)</b>							
1	Dantyagis, —Fundamentals of Textile and Their Carell, Oriental Longmans Ltd, NewDelhi,1996						
2	Denlkar, —Household Textiles and Laundry Workll,Atma Ramand Sons,Delhi,1993						
3	Neomi D’Souza, —Fabric Carell, New Age International Publisher,1998						
4	Davis, —Laundry and Clothing Carell, Drama Book Publishers,1995						
<b>Related Websites</b>							
1	<a href="https://www.bhg.com/homekeeping/laundry-linens-cloths-how-to-wash-clothes-by-hand/">https://www.bhg.com/homekeeping/laundry-linens-cloths-how-to-wash-clothes-by-hand/</a>						
2	<a href="https://textilelearner.blogspot.com/2013/07/textile-finishing-processing.html">https://textilelearner.blogspot.com/2013/07/textile-finishing-processing.html</a>						



# SEMESTER IV

Wisdom Maketh World



Course code	<b>TEXTILE WET PROCESSING</b>			L	T	P	C
<b>Core-IV</b>				4	-	-	4
<b>Basics of Textile Wet Processing</b>				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Apply the techniques of preparatory process, dyeing and printing of fabrics</li> <li>2. Gain the knowledge about bio processing</li> <li>3. Analyze the technologies of effluent treatment of processed water.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Remembering of wet process techniques in textile industry						K1
2	Understanding of textile dyes.						K2
3	Understand the various printing methods						K2
4	Apply the enzymes applications in textiles						K3
5	Analyse 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>Wet Processing Process</b>						
Preparatory Processing: Introduction, Fibre – Composition - Typical Sequence of Processes - General Wet Processing Sequence for Cotton Goods - Pre-Dyeing preparatory Processing – De sizing Starch - Scouring – Bleaching – Mercerization. Post Dyeing preparatory Processing: Dyeing – printing – finishing - Synthetic fibres and Pretreatments - Process Sequence for Polyester / Cotton Blend.							
<b>Unit:2</b>	<b>Dyeing</b>						
Dyes – Classification of Dyes, Banned dyes - Dyeing Machines, Influence of Physical and Chemical Structure of Fibres on Dye ability - Types of Dyeing Machine, Jet, HT, Beam Dyeing Machine, Padding Mangle, and Jigger - Recent developments in dyeing.							
<b>Unit:3</b>	<b>Printing</b>						
Printing: Styles of Printing - Methods of Printing, Block, Flat, Rotary Screen, engraved Roller, Transfer, Duplex printing, Pigment Printing, Batik, Khadi - Fixation and After Treatment - Print Paste Formulation.							
<b>Unit:4</b>	<b>Enzymes</b>						
Bio - Technology in Textiles: Enzymes & Proteins – Sources and Applications - Application of enzymes in Textile Chemical Processing - Mechanism of enzyme reactions – Bio scouring – Bio bleaching, Combined bio - processing, bio washing, bio polishing, Denim fading, anti odour and anti microbial finishes, bio finishing and other applications - Evaluation of enzyme treated fabrics.							
<b>Unit:5</b>	<b>Effluent Treatment</b>						
Effluent Treatment Plants: Detail study about characteristic of textile effluent Developments in membrane techniques in the effluent treatment - Energy conservation steps in chemical processing Low wet pick-up techniques - Causes and remedies for water and air pollution – Bio-Technology in textile effluent treatment plants.							
<b>Text Book(s)</b>							
1	Textile Chemistry, Paters R.H, Elsevier Publishing, 1967.						
2	Technology of Textile Processing, Shenai V.A., Sevak publications, Bombay, 1981.						
<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>						

Course code	FASHION MARKETING			L	T	P	C
Core-V				3	1	-	4
Fashion Marketing Strategies				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Identify market research related to apparel production processes.</li> <li>2. Understand the professional and ethical responsibility of fashion marketing.</li> <li>3. Introduce digital marketing.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Remembering fashion terms in textile industry						K1
2	Understand the fashion marketing strategies						K1
3	Apply fashion advertising in textile industry						K3
4	Evaluate the fashion market research						K5
5	Analyse about global markets						K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>FASHION</b>						
Fashion: Meaning, Definition & Terminologies – Components of fashion - Principles of fashion – Environment of fashion: Demographic & Psychographic, Economic, Sociological and psychological factors – Fashion cycle - Leaders of fashion: Designer’s role, manufacturer’s role and retailer’s role – Theories of fashion adoption.							
<b>Unit:2</b>	<b>MARKETING</b>						
Meaning and classification of marketing, fashion marketing, fashion market size and structure marketing environment –micro marketing environment, macro marketing environment. Trends in marketing management. Marketing function – definition and classification product planning and development importance of fashion products, nature of fashion products. The fashion industry and new product development product mix and range planning. Product line policies							
<b>Unit:3</b>	<b>FASHION ADVERTISING</b>						
Fashion advertising and preparation of advertising for apparel market. Advertising media used in apparel marketing. Advertising department, advertising agencies. A survey on analysis of customers fashion preference & international advertising. Fashion sales promotional programme for apparel marketing, communication and promotion, personal selling, point of purchase, sales promotion objectives, consumer sales promotion.							
<b>Unit:4</b>	<b>MARKETING RESEARCH</b>						
Marketing research – definition, scope and importance of market research in new product development. Pricing policies and strategies for apparel products. Importance of price policies. Functions of pricing. Factor influencing price decisions. Methods of setting prices. International pricing policy, export pricing.							
<b>Unit:5</b>	<b>GLOBAL MARKET</b>						
Global market and its participants in international marketing – Importance, growth and benefits – international market place- goods and services multinational corporations banks and insures trading companies – implications for marketing management- GATT. Present export and import details Digital marketing- types- benefits.							
<b>Text Book(s)</b>							
1	R.S.N. Pillai and Bagavathi, S, —Marketing], Chand & Co ltd New Delhi –1987.						
2	Philip C.F and Duneon D.T, —Marketing Principle and methods], Irwin publications.						
3	Backman T.N. Maynard H.H and Davidson W.R, —Principles of Marketing], Ronald Press Company, New York 1970.						

Course code		<b>HOME TEXTILES</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Allied-IV</b>			<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Knowledge about choice of fabrics for Home Textiles</b>			<b>Syllabus</b>		<b>2022 Onwards</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 various home textile products</li> <li>2. Gain insights on the bed linens, 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:						
1	Classify the home textile products					K2
2	Understand the types of floor and wall coverings					K2
3	Distinguish curtains and draperies					K4
4	Describe the types of soft furnishings					K1
5	Discover the types and functions of kitchen linen					K3
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create						
<b>Unit:1</b>		<b>Introduction to Home textiles</b>				
<b>Different types of furnishing materials:</b> Definition – Different types of furnishing materials – Woven and Non-woven, Factors affecting selection of home furnishes. Recent Trends in Home Furnishing						
<b>Unit:2</b>		<b>Floor and wall coverings</b>				
<b>Floor coverings:</b> Floor coverings – Hard floor coverings, resilient floor coverings. Soft floor coverings – Rugs and carpets, Use and care. Wall covering – Use and care.						
<b>Unit:3</b>		<b>Door and Window treatments</b>				
<b>Doors and Windows:</b> Doors and Windows – Definition, Different types of doors and windows, their application. Curtains and Draperies – Choice of fabrics, calculating the amount of material needed, hints on making curtains hang well, methods of finishing draperies at the top – Use of drapery rods, hooks, and tape rings and pins.						
<b>Unit:4</b>		<b>Soft furnishings for living rooms</b>				
<b>Living Room Furnishing:</b> Living room furnishing – sofa covers, wall hangers, cushion, cushion covers, upholsteries, Bolster and Bolster covers. Bed Linens – Definition, Different types of bed linens, sheets, blanket covers, comfort covers, bed spreads, mattress covers and pads, pillows and pillow covers, use and care.						
<b>Unit:5</b>		<b>Soft furnishing for kitchen and dining</b>				
Soft furnishings for kitchen and dining, types of kitchen linens – kitchen towel, aprons, dish cloth, <b>Kitchen and Table Linens:</b> Kitchen and Table Linens – Definition – Types of Kitchen linens, Dish cloth, Hand towels, Fridge cover, Fridge handles, Mixi cover, Grinder cover, their use and care.						
<b>Text Book(s)</b>						
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 McCormick Gordon, Collins and Brown, London, 2002					
4	Design and make curtains, Heather Luke, New Holland publishers, London, 1999					

5	Cornucopia of Cushions, Susie Johns, Apple Press, London, 1997
6	Art in Everyday Life, Harriet Goldstein and Vetta Goldstien, The Macmillian Company, 2004
7	Performance of Home Textiles, Subrata Das, Woodhead Publishing India Pvt. Limited, 2010
8	Home Furnishing, V. Ramesh Babu and S. Sundaresan, Woodhead Publishing India Pvt. Limited, 2018
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.homestratosphere.com/types-curtains/">https://www.homestratosphere.com/types-curtains/</a>
2	<a href="https://bettersleep.org/mattress-education/mattress-accessories/pillow-types/">https://bettersleep.org/mattress-education/mattress-accessories/pillow-types/</a>
3	<a href="https://textilecourse.blogspot.com/2018/06/types-classification-home-textiles.html">https://textilecourse.blogspot.com/2018/06/types-classification-home-textiles.html</a>
4	<a href="https://www.fibre2fashion.com/industry-article/1769/home-textiles-a-review">https://www.fibre2fashion.com/industry-article/1769/home-textiles-a-review</a>
5	<a href="http://www.india-crafts.com/textile/home-textile.html">http://www.india-crafts.com/textile/home-textile.html</a>





Course code	WOMEN'S APPAREL PRACTICAL			L	T	P	C
Core Practical-IV				-	-	5	3
Basics of Women's Garment Construction Techniques					Syllabus		2022 Onwards
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Design Garments for women</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:							
1	Students will be able to understand the women's body with respect to design selection of fabrics & accessories.						K2
2	Students will be able to independently design a dress for women's fashion wear.						K6
3	Design Garments for Women						K6
4	Develop patterns for women using drafting method						K6
5	Construct garment by sewing						K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Designing, drafting and constructing the following garments for the features prescribed in the following criteria.</b>							
<ul style="list-style-type: none"> <li>• Measurements chart</li> <li>• Layout method</li> <li>• Break down analysis of the garment</li> <li>• Sequence of Assembling and its procedures.</li> <li>• Type of seam for each assembly process.</li> <li>• CMT costing and garment costing</li> </ul>							
<b>WOMEN'S GARMENTS</b>							
<ol style="list-style-type: none"> <li>1. Saree Petticoat- 6,7,8 core Panel , Decorated bottom.</li> <li>2. Skirts – Circular/ Umbrella/ Panel with style variations.</li> <li>3. Blouse - Front open, fashioned neck, Waist band at front, with sleeve.</li> <li>4. Salwar (or) Churidhar (or) Parallels (or) Bell Bottom</li> <li>5. Kameez – with /without slit, with or without flare, with /without opening, with or without Panels, with / without yoke.</li> <li>6. Nightie –With yoke, Front open, with sleeve, Full length.</li> <li>7. Ladies pant- Waist band, Zip attached, tight fitting / Parallel pants.</li> <li>8. Short kurta / Top – Decorative / Surface design in tailored placket, with or without collar.</li> </ol>							
<b>Text Book(s)</b>							
1	Scientific garment quality –K M Illege and Sons , Plot No. 43 , Somuvar Peth pune 411011						
2	Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)						
3	Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college 32						
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>							
1	<a href="https://www.patternsonline.com-default.aspx">https://www.patternsonline.com-default.aspx</a>						
2	<a href="https://shoeguide.com/">https://shoeguide.com/</a>						

Course code		<b>TEXTILE WET PROCESSING PRACTICAL</b>	L	T	P	C
<b>Core Practical-V</b>			-	-	3	2
<b>Textile Wet Processing of Dyeing and Printing</b>					<b>Syllabus</b>	<b>2022 Onwards</b>
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. To gain a practical on-hand training on preparatory process.</li> <li>2. To understand the technical importance of wet processing.</li> <li>3. To plan various process requirements for dyeing.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
1	Apply various dyes on fabrics Print textile fabrics in different styles.					K3
2	Remember the various terms of wet processing					K1
3	Understand the technical implications of wet processing					K2
4	Analyze various chemical reactions and their implications.					K4
5	Understand the preparatory process and its requirements.					K2
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Preparation of samples for Processing:</b>						
<ul style="list-style-type: none"> <li>• Desizing</li> <li>• Scouring</li> <li>• Bleaching</li> <li>• Mercerising</li> </ul>						
<b>Dye the given fabric using suitable dye:</b>						
<ul style="list-style-type: none"> <li>• Direct Dye</li> <li>• Sulphur Dyes</li> <li>• Vat Dye</li> <li>• Disperse Dye</li> <li>• Reactive Dyes</li> <li>• Acid Dye</li> </ul>						
<b>Printing of Fabrics</b>						
<ul style="list-style-type: none"> <li>• Printing of cotton using block and screen printing (2 Samples each).</li> <li>• Printing of tie and dye and batik (2 samples each).</li> <li>• Printing on cotton fabric with natural colors.</li> </ul>						
<b>Text Book(s)</b>						
1	AATCC Garment wet processing Technical manual (1994)					
2	Textile processing and properties, Preparation, Dyeing, Finishing & Performance, Tyrone L. Vigo, elsewhere publishing, Netherland					
3	Textile Wet processing, Manoj Dole, Manoj Dole Publications Co. India (2018)					
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>						
1	<a href="https://britannica.com/topic/textile/dyeing-and-printing">https://britannica.com/topic/textile/dyeing-and-printing</a>					
2	<a href="https://www.sciencedirect.com/topics/engineering/dyeing-process">https://www.sciencedirect.com/topics/engineering/dyeing-process</a>					

Course code	FASHION ACCESSORIES & EMBELLISHMENT PRACTICAL				L	T	P	C
SBEC Practical-II					-	-	3	2
Practical Knowledge of Embellishment Work						Syllabus		2022 Onwards
<b>Course Objectives:</b>								
<ol style="list-style-type: none"> <li>To impart knowledge to the students about the hand and machine embroidery.</li> <li>To learn the various types of stitches.</li> <li>To provide opportunity for skill development in designing accessories.</li> <li>To impart knowledge on fashion accessories &amp; creativity.</li> </ol>								
<b>Expected Course Outcomes:</b>								
On the successful completion of the course, student will be able to:								
1	Hand embroidery stitches and machine embroideries are developed.							K6
2	They will be able to develop & design complex fashion accessories by learning to design different accessories manually							K6
3	Create added structural effects using smocking							K6
4	Apply the techniques used in Indian traditional embroideries							K3
5	Design and develop the samples for beadwork							K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>								
<p><b>A. Prepare samples for the following</b></p> <ol style="list-style-type: none"> <li>Hand embroidery – 20 stitches -10 samples</li> <li>Machine embroidery -7stitches -3 samples.</li> <li>Applique ( machine / hand )- 3 types</li> <li>Smocking – 4 types</li> <li>Bead Work -1 sample</li> <li>Sequins work -1 sample</li> <li>Zardosi work -1 sample</li> <li>Tassels and fringes -2-3samples.</li> <li>Mirror work –Shapes (Round, square, diamond) - 3 samples</li> <li>Fixing the stones-1 sample.</li> </ol> <p><b>B. Traditional surface ornamentation practices with two to four variations in the following</b></p> <ol style="list-style-type: none"> <li>Kantha</li> <li>Chikan</li> <li>Kasuti</li> <li>Zardosi</li> <li>Kutch work</li> <li>Mirror work</li> <li>Aari work</li> <li>Phulkari work</li> </ol> <p><b>C. Crochet</b></p> <p><b>D. Prepare samples for the following</b></p> <ol style="list-style-type: none"> <li>Hand bag - Any 2 types</li> <li>Hat - Any 2 types</li> <li>Bow - Decorative bow &amp; formal bow</li> <li>Purse &amp; pouches - any 2 types</li> </ol>								
<b>Text Book(s)</b>								
1	Scientific garment quality –K M Illege and Sons , Plot No. 43 , Somuvar Peth pune 411011							
2	Shailaja D. Naik, Traditional embroideries of India, APH Publishing (1996 )							
3	Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college 32							
4	Libby Moore Thread folk, a Modern Maker’s book of Embroidery, Project & Artist Collaboration, Paige Tata & Co.							
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>								
1	<a href="https://sueguide.csom/smocking/">https://sueguide.csom/smocking/</a>							
2	<a href="https://www.youtube.com/watch?v=nJz9c8gEvFg">https://www.youtube.com/watch?v=nJz9c8gEvFg</a>							

Course code	FUNDAMENTALS OF DESIGNING			L	T	P	C
	NMEC-II			1	1	-	2
Study of Basic Designing				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>1. Impart knowledge on design concepts in the field of fashion</li> <li>2. Familiarize with the fashion cycles, consumers and theories</li> <li>3. Design suitable garments for unusual figure types</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Students can learn various colour aspects in fashion designing.						K2
2	The art of garments construction & pattern making can be easily drafted by students						K6
3	Understand the design types, elements and principles of design						K2
4	Appraise the colour combinations with standard colour harmonies						K5
5	Interpret the fashion cycles, consumer groups and fashion theories						K2
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create							
<b>Unit:1</b>		<b>Design and its types</b>					
Types of Design-Structural and Decorative design, Requirements Of Structural And Decorative Design, Elements of Design - Line, Size, Shape, Color and Texture.							
<b>Unit:2</b>		<b>Principles of design</b>					
Principles of Design - Balance, Emphasis, Proportion, Rhythm, Harmony and its types. Application of principles of design in dress design.							
<b>Unit:3</b>		<b>Color theory</b>					
Color- Definition, Color theory - Prang color system, Dimension of color- Hue, Value and Intensity. Color schemes in Prang color System.							
<b>Unit:4</b>		<b>Designing dresses for unusual figures</b>					
Figure Irregularities - Stout figure, Thin figure, Broad shoulders, Narrow Shoulders, Faces – Round, Large, and Small face.							
<b>Unit:5</b>		<b>Wardrobe Planning</b>					
Wardrobe Planning – Factors to be considered while selecting clothes for different age group – Men, Women and Children.							
<b>Text Book(s)</b>							
1	Fashion Sketch Book – Bina Abling, Fair Child Publications, New York Wardrobe,1988.						
2	Fashion from Concept to Consumer – Frings Gini Stephens, Pearson Education, US, 1998.						
3	Inside the Fashion Business – Kitty G. Dickerson, Pearson Education,US, 2007.						
<b>Related Online Contents</b>							
1	<a href="https://www.apparelsearch.com/terms/index.html">https://www.apparelsearch.com/terms/index.html</a>						
2	<a href="https://www.instyle.com/fashion">https://www.instyle.com/fashion</a>						
3	<a href="https://prezi.com/1tlwgnhviqs-/fashion-elements-and-principles-of-design/">https://prezi.com/1tlwgnhviqs-/fashion-elements-and-principles-of-design/</a>						





# SEMESTER

# V

Course code	APPAREL PRODUCTION MANAGEMENT		L	T	P	C
<b>Core VI</b>			<b>4</b>	-	-	<b>4</b>
<b>Basic knowledge in garment production processes</b>			<b>Syllabus</b>		<b>2022 Onwards</b>	
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. The Students will learn about garment industry and technical parameters in garment production.						
2. It will enhance the students to work with garment industry machinery & equipment						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
1	Understand the concept of plant location and layout					K2
2	Analyze the work study techniques					K4
3	Apply the best techniques to improve productivity with quality production					K3
4	Understand the functions of line balancing techniques					K2
5	Evaluate production planning and control techniques					K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>		<b>Plant Location and Layout</b>				
<b>Plant Location and Layout.</b> Production - Definitions - Terminology - Organizing for Production - Function of Production Department - Introduction to Garment Industry Plant Location - Location Economics -Plant Layout – Process Layout -- Product Layout – Combination Layout -Introduction to Balancing Theory – Balance Control.						
<b>Unit:2</b>		<b>Work Study</b>				
<b>Work Study-</b> Concept And Need - Method Study and Work Measurement -Techniques - Process Chart Symbol - Process Flow Chart -Flow Diagrams - String Diagrams - Multiple Activity Chart - Principles of Motion Economy – Simo Chart - Time Study Methods - Standard Time Data - Ergonomics With Special Reference To Garment Industry.						
<b>Unit:3</b>		<b>Production and Productivity</b>				
<b>Production and Productivity-</b> Methods of Production Systems - Job, Mass & Batch - Section Systems, Progressive Bundle System & 'Synchro' System- Conveyor Systems - Unit Production System - Advantages of UPS - Quick Response- Measurement of Productivity -"Men, Machine, Material" - Total Factor Productivity-Criteria for Increasing Productivity in Garment Industry.						
<b>Unit:4</b>		<b>Line Balancing</b>				
<b>Line Balancing -</b> Duties and Responsibilities of Production manager / Supervisor - Effective Line Supervision - Factors of Production -Production Function - Process Flow and Charts for Garment - Scheduling Calculations.						
<b>Unit:5</b>		<b>Production Planning and Control</b>				
<b>Production Planning and Control -</b> Capacity Requirement Planning [CRP] - Material Requirement Planning -Steps in Production Planning - Factors to be consider in Production Planning -Function, Qualitative and Quantitative Analysis of Production – Coordinating Departmental Activities - Practical Difficulties in implantation.						
<b>Text Book(s)</b>						
1	Carr& Latham, —Technology of Clothing Manufacture					
2	Jacob Solinger, —Apparel Manufacturers Handbook					
3	Gerry Cooklin, —Introduction to Clothing Manufacture					
4	J. Chuter, —Introduction to Production Management					
5	Tripathi, —Personal Management and Industrial Relations					
6	O.P. Khanna, —Industrial Engineering and Management					

Course code		<b>TEXTILE FINISHING</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core VII</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>4</b>
<b>Finishing of textile fabrics and its functions</b>			<b>Syllabus</b>		<b>2022 Onwards</b>	
<b>Course Objectives:</b>						
<ol style="list-style-type: none"> <li>1. To impart knowledge &amp; understanding of chemistry, mechanism &amp; application process of various textile finishes.</li> <li>2. It aims to enhance the awareness of future trends in textile finishing.</li> <li>3. To impart the knowledge about finishing methods of fabric based on their function.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
1	Understand the method & application of finishes on different textile substrates.					K2
2	Gain awareness of new advancement in the area of finishing					K2
3	Apply various finishes based on the various functions of the fabric					K3
4	Analyze the various methods to process the fabric					K4
5	Analyze new eco-friendly technologies to produce eco-friendly product					K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Finishing</b>					
Finishing - Introduction – Objects of finishing, Importance of finishing, Classification of finishes, Advantages of finishing.						
<b>Unit:2</b>	<b>Mechanical Finishing</b>					
Mechanical Finishes-Beetling, Shearing, Calendaring, Tentoring, Moiering, Embossing, Glazing, Napping, Chemical Weighting of Silk, Sizing, Sanforizing, Schreiner, Wrinkle free finish.						
<b>Unit:3</b>	<b>Functional Finishing</b>					
Functional Finish - Resin finish, Water Proof finish, Water Repellent finish, Antimicrobial finish, Flame Retardant finish, Soil Release finish - Process and Recipe, Types and Method of Fusing, Welding and Adhesives, Molding.						
<b>Unit:4</b>	<b>Advanced Finished</b>					
Advanced Functional Finish - Stiff finish - Process and Recipe, Softening - Silicone finish, Denim finish, Stone Wash finish, Anti - Pilling finish, Anti Mildew finish.						
<b>Unit:5</b>	<b>Special finishes</b>					
Special Finishes on Garments–Finishing of Woven /Knitted garments–Stone less, Stonewash effects–Mud wash, Ion wash, Chalk wash, Water resistant Breathable finish, Bio polishing, Leathery Finish, Protective Finishes–Deodorizing, Cool Finish and Thermostat finishes						

<b>Text Book(s)</b>	
1	<i>Shenai and Saraf</i> . 1995. <b>Technology of Textile Finishing</b> . Sevak publications.
2	<i>Nallangilli and Jayaprakasam</i> . 2005. <b>Textile Finishing</b> . S.S.M Institute of Textile Technology.
3	<i>Prayag</i> . 1996. <b>Technology of finishing</b> . Shree J. Printers, Pune
<b>Related websites</b>	
1	<a href="https://nptl.ac.in/courses/116/102/116102054/">https://nptl.ac.in/courses/116/102/116102054/</a>
2	<a href="https://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_ug.php/130">https://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_ug.php/130</a>

Course Code	ENTREPRENEURSHIP DEVELOPMENT	L	T	P	C
CORE-VIII		4	-	-	4
Basics of Entrepreneurship Development		Syllabus		2022Onwards	
<b>Course Objectives:</b>					
The main objectives of this course are to:					
<ol style="list-style-type: none"> <li>1. Familiar the students with challenges of starting new ventures</li> <li>2. Enable them to investigate and understand the process of setting up a new business.</li> </ol>					
<b>Expected Course Outcomes:</b>					
On the successful completion of the course, student will be able to:					
Understand the concept of entrepreneurship and traits of entrepreneur				K1	
Learn about the identification of a project and project report preparation				K6	
Learn about the formalities of SSI's Registration				K3	
Learn about the role of support institutions				K2	
Learn about Incubation centers and start up India				K4	
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create					
<b>Unit:1</b>	<b>Introduction to Entrepreneurship</b>				
Entrepreneurship: Concept and Definitions; Entrepreneurship and Economic Development; Classification and Types of Entrepreneurs; Entrepreneurial Competencies; Factor Affecting Entrepreneurial Growth – Economic, Non-Economic Factors; EDP Programmes; Entrepreneurial Training; Entrepreneur; Manager Vs. Entrepreneur.					
<b>Unit:2</b>	<b>Starting the venture</b>				
Project Identification – Project formulation – Project design - preparing project report - Project Planning and Scheduling using Networking Techniques of PERT / CPM; Methods of Project Appraisal.					
<b>Unit:3</b>	<b>SSI and Registration</b>				
Small Enterprises and Enterprise Launching procedures and Formalities Role of SSI in Economic Development of India; SSI; Registration; NOC from Pollution Board; project report presentation guidelines					
<b>Unit:4</b>	<b>Sources of Finance and Institutional Assistance</b>				
Role of Support Institutions and Management of Small Business: Director of Industries; DIC; SIDCO; SIDBI; Small Industries Development Corporation (SIDC); SISI; NSIC; NISIET, NIESBUD; TANSIDCO; TIIC; State Financial Corporation; KVIC					
<b>Unit:5</b>	<b>Financial Incentives</b>				
Ministry of MSME Scheme & Subsidy- Tax concessions; – seed capital assistance –Role of entrepreneur in export promotion and import substitution – Social Entrepreneur, Incubation center, Startup India					
<b>Text Book(s)</b>					
1	Entrepreneurial Development, Dr. C.B. Gupta, Sultan Chand & Sons, New Delhi, 2009				
2	Entrepreneurial Development, Dr.S. S Khanka, Sultan Chand & Sons, New Delhi, 2009.				
3	Entrepreneurship Development and Small Business Enterprises, Charantimath, Poornima, Pearson Education, New Delhi, 2006				
4	Entrepreneurship New Venture Creation, David H. Holt, Prentice Hall of India Private Limited, New Delhi, 2005				
<b>Related Websites</b>					
1	<a href="https://www.researchgate.net/publication/259843889">https://www.researchgate.net/publication/259843889</a>				
2	<a href="https://ncert.nic.in/textbook/pdf/kebs109.pdf">https://ncert.nic.in/textbook/pdf/kebs109.pdf</a>				



<b>Course code</b>	<b>APPAREL QUALITY ASSURANCE</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	<b>MBEC-I</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>4</b>
	<b>Basics of Apparel Quality Control &amp; Assurance</b>			<b>Syllabus</b>		<b>2022 Onwards</b>	
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>To facilitates the understanding of Apparel quality assurance principles and process.</li> <li>To understand the basics of apparel quality.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Understanding of quality parameters						K2
2	Analyse various defects of textile materials						K4
3	Understand the concept of ISO implementation						K2
4	Analyze the quality of raw materials through testing						K4
5	Evaluate the functions of apparel quality assurance						K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Quality</b>						
Define - Quality, QC, QA, Importance of quality and quality control. Raw material inspection-fabric inspection - 4 point system - 10 point system - in process inspection - final inspection - no inspection- 100% inspection - statistical sampling- AQL standards and preparing specifications.							
<b>Unit:2</b>	<b>Defects</b>						
Fabric defects - pre sewing defects - sewing defects - post sewing defects-causes & remedies. Minor and Major defects.							
<b>Unit:3</b>	<b>ISO</b>						
Need for ISO 9000 - ISO 9001-2008 Quality System - Elements, Documentation, Quality Auditing - QS 9000 - ISO 14000 - Concepts, Requirements and Benefits - TQM Implementation in manufacturing and service sectors. Eco tex concepts.							
<b>Unit:4</b>	<b>Testing</b>						
Accessories testing - sewing threads, button, lining, interlining, hook, laces, elastics & packing materials, Testing of dimensional stability - bow-skew ness - shrinkage.							
<b>Unit:5</b>	<b>Apparel Quality Assurance</b>						
Apparel Quality Assurance in Packing – importance –types. Warehousing –scope & importance – Shipping procedure.							
<b>Text Book(s)</b>							
1	Pradip metha, Satish k. Bhardwaj, —Managing quality in the apparel industries, NIFT, New age international (p) ltd publishers, ND.						
2	Harold Carr and Barbara Latham, —Technology of clothing manufacture, Oxford publications, ITSA.						
3	Ruth EC, —Apparel manufacturing and sewing product analysis,						
4	Pradip V Metha, —Introduction to quality controll, ASCQ quality press, New York, 1992.						
5	Wiley Eastern, —Total quality management - a practical approach, New York 1990.						

Course code	MEN'S APPAREL PRACTICAL			L	T	P	C
Core Practical-VI				-	-	5	3
Basic Knowledge about Men's garment construction					Syllabus		2022 Onwards
<b>Course Objectives:</b>							
<ol style="list-style-type: none"> <li>To impart the practical knowledge in pattern drafting &amp; garment construction skill in men's wear for the Students.</li> <li>To develop creative skills in designing &amp; constructing men's wear for different age group</li> <li>To List out the measurements required and materials suitability.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Prepare patterns & construct the garments.						K2
2	Assess the suitability of fabric for men						K2
3	Learn specific requirements for men's wear designing.						K5
4	Students will be able to independently design a dress for men's fashion wear.						K4
5	Develop skills, and create creative patterns for men's garments.						K2
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<ol style="list-style-type: none"> <li>S.B.Vest – with/ without collar, button attached, sleeveless</li> <li>Slack shirt – full open, shirt collar, patch pocket,</li> <li>Nehru kurtha –stand collar, side pocket, half open</li> <li>Pyjama- Elastic /Tape attached waist.</li> <li>Pleated trousers – pleats in front, Darts at back, side pocket, fly with button /zip.</li> <li>T-Shirt – open collar, zip attached</li> <li>Bermudas –patch pocket</li> <li>Kalidhar Kurta</li> </ol>							
<b>Text Book(s)</b>							
1	Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)						
2	Zarapker System of Cutting- Zarapker. K. R, Navneet Publications ltd.						
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>							
1	<a href="https://shoeguide.com/">https://shoeguide.com/</a>						
2	<a href="https://www.patternsonline.com-default.aspx">https://www.patternsonline.com-default.aspx</a>						



Course code	FASHION DRAPING PRACTICAL			L	T	P	C
Core Practical-VII				-	-	4	2
Basic knowledge in draping, body silhouettes and various fabrics				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
The main objectives of this course are to:							
<ol style="list-style-type: none"> <li>To understand the basic draping &amp; manipulation techniques.</li> <li>To design and develop patterns for different garments based on the body measurements.</li> <li>To interpret and transform their designs on a three-dimensional form using draping method.</li> </ol>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Remember the basic principles of draping for fashion design.						K1
2	Understand the style lines and proportions of the garment to be draped.						K2
3	Apply knowledge to produce patterns for the component parts of a garment.						K3
4	Analyze the proper fit and grain of the fabric in relation to design.						K4
5	Create & develop a design through three-dimensional experimentation						K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>							
<ol style="list-style-type: none"> <li>Bodice - Front &amp; Back</li> <li>Skirt - Front &amp; Back and Its Types</li> <li>Pant - Front &amp; Back</li> <li>Sleeve - Bell, Raglan, Cape, Puff, Circular, Kimono</li> <li>Neckline - Boat, Key Hole, Halter, Scooped, Scalloped</li> <li>Collar - Mandarin, Peter pan, Turtle, Ruffled &amp; Shawl</li> <li>Cowls</li> <li>Twist</li> <li>Surplice</li> <li>Yoke - Hip Yoke, Midriff &amp; Shirt Yoke</li> <li>Design and Drape one couture wear for Men &amp; Women</li> </ol>							
<b>Text Book(s)</b>							
1	Draping for Fashion Design, 5 <sup>th</sup> Edition, Nurseriesrelis, Hilde Jaffe and Rose Mary Torre, Pearson Prentice Hall Publications, United States, 2012.						
2	The Art of Fashion Draping, Connie Amadan Crawford, Fair Child Publications, New York, 2005.						
3	Draping for Apparel Design – 3 <sup>rd</sup> Edition, Helen Joseph and Armstrong, India, Bloomsbury Publications India Ltd, 2013.						
4	Cutting and Draping Special Occasion Cloths: Designs for Party wear and Evening wear, Dawn Cloak, London, Batsford, 1998.						
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>							
1	<a href="https://style2designer.com/apparel/draping-mannequin/what-is-draping-technique-and-its-process/">https://style2designer.com/apparel/draping-mannequin/what-is-draping-technique-and-its-process/</a>						
2	<a href="https://www.aicp.fr/portfolio-items/moulage-technique-du-moulage/?lang=en#:~:text=Draping%2C%20the%20most%20ancient%20of,to%20create%20a%20fabric%20prototype">https://www.aicp.fr/portfolio-items/moulage-technique-du-moulage/?lang=en#:~:text=Draping%2C%20the%20most%20ancient%20of,to%20create%20a%20fabric%20prototype</a>						

Course code	<b>INTERNSHIP -PROJECT VIVA VOCE</b>		L	T	P	C
<b>Internship</b>			-	-	-	-
<b>Gain Practical insights of the industry / company</b>			<b>Syllabus</b>	<b>2022Onwards</b>		
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Expose the students to the work environment</li> <li>2. Familiarize and adapt to the workplace</li> <li>3. Understand the methods, techniques and practices followed in the place of training</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
Understand the working structure of the industry/ company					K2	
Analyze the methods adopted in the training place					K4	
Correlate to the theoretical knowledge gained in the college					K4	
Recognize the challenges in the training place					K1	
Discover the nuances of the workplace and appreciate it					K3	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>						
<b>Grading system will be followed</b>						
<b>Details of the Training</b>						
The student should undergo <b>15 Days Internship training</b> in a Textile Processing Unit/ Designer House / Buying House/ Garment Unit / Retail house after IV semester theory exam / before the start of Fifth Semester (Grading-Highly commended /Commended)						
<b>Purpose of the Internship Training</b>						
The training bridges the gap between the theoretical knowledge gained in the college and the practical application of the same in the industry / company / stores						
The student will have a better exposure about the workplace and its nuances						
<b>Process to be Followed</b>						
Students can identify their area of interest. Industry / companies has to be identified and a profile of the company has to be analyzed at least a month earlier. Contacts can be established by the guides allotted to the student. Prior permission has to be obtained from the place of training. After confirmation, the student will undergo training for a period of 15 working days.						
<b>Instructions to the Students</b>						
The students should abide by the rules and regulations of the concern and get the maximum benefit from the training. The students should maintain a daily logbook where the student should record his details of the training.						
A copy of the record has to be sent to the supervisor allotted to the student. The logbook must be Signed (with seal) by the staff of the company. Based on the study done, the student will submit a report to the guide within a weeks' time along with the logbook. In case of any problems, the student should reach out to the supervisor immediately						
<b>Instructions to the Supervisor</b>						
The supervisor should establish contacts with the place of training. A routine follow up has to be done with the student once in two or three days. Problems, if any faced by the student should be sorted out immediately.						

### Training Report and Presentation

Training Report (30 – 50 pages) should be prepared by the student and submitted in a month's time. At the end of the semester student should present the report with a power point presentation

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

1	<a href="https://www.wikihow.com/Write-a-Report-After-an-Internship">https://www.wikihow.com/Write-a-Report-After-an-Internship</a>
2	<a href="http://mfe-iseah-kef.blogspot.com/2013/11/internship-daily-journal.html">http://mfe-iseah-kef.blogspot.com/2013/11/internship-daily-journal.html</a>
3	<a href="https://www.academia.edu/25257761/Student_Internship_Logbook">https://www.academia.edu/25257761/Student_Internship_Logbook</a>
4	<a href="https://www.indeed.com/career-advice/career-development/how-to-write-an-internship-report">https://www.indeed.com/career-advice/career-development/how-to-write-an-internship-report</a>
5	<a href="https://valenciacollege.edu/students/internship/documents/ActivityLog.pdf">https://valenciacollege.edu/students/internship/documents/ActivityLog.pdf</a>
6	<a href="https://www.template.net/business/log/internship-time-log/">https://www.template.net/business/log/internship-time-log/</a>



<b>Course code</b>		<b>COMPUTER AIDED PATTERN DESIGNING PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>SBEC Practical III</b>			-	-	<b>5</b>	<b>3</b>
<b>Knowledge and skills in CAD pattern</b>			<b>Syllabus</b>		<b>2022 Onwards</b>	

**Course Objectives:**

The main objectives of this course are to:

1. Acquire skills in developing patterns through computer software.
2. To understand the basics of CAD software
3. Drafting, Grading and Marker planning of garment patterns using new advance software.

**Expected Course Outcomes:**

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

1	Understand the most economic layout of marker planning.	K2
2	Apply knowledge of using software to undertake design projects.	K3
3	Apply knowledge in drafting patterns and grading them to different sizes using CAD software.	K3
4	Evaluate fit and pattern alteration	K5
5	Create more accurate and designer patterns through computer aided designing.	K6

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

**Unit: 1** | **Children's wear**

Draft and grade patterns for the following garments. Create marker plans and conduct fit analysis for the following garments

1. Yoke frock
2. Baba suit
3. Summer frock
4. Skirt and tops

**Unit: 2** | **Women's wear**

Draft and grade patterns for the following garments. Create marker plans and conduct fit analysis for the following garments

1. Salwar
2. Kameez
3. Tops
4. Nighty

**Unit: 3** | **Men's wear**

Draft and grade patterns for the following garments. Create marker plans and conduct fit analysis for the following garments

1. Full sleeve shirt
2. T-Shirt
3. Bermudad
4. Pleated Trouser

**Text Books**

1	Pattern Cutting For Clothing Using Cad: How To Use Lectra Modaris Pattern Cutting Software - Stott M, Woodhead Publishing Ltd, 2012
2	Pattern Cutting And Making Up Revised Edition - Shoben M M , CBS Publishers and Distributors, 2000
3	Computer Aided Design & Manufacturing (Test CAD Programs Inside), Sadhu Singh, Khanna Publications, 1998.

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

1	<a href="https://medcraveonline.com/JTEFT/various-approaches-in-pattern-making-for-garment-sector.html">https://medcraveonline.com/JTEFT/various-approaches-in-pattern-making-for-garment-sector.html</a>
2	<a href="https://www.youtube.com/watch?v=jTWtQNTJt_A">https://www.youtube.com/watch?v=jTWtQNTJt_A</a>
3	<a href="https://www.youtube.com/watch?v=iX7O4X7O4fNQjA">https://www.youtube.com/watch?v=iX7O4X7O4fNQjA</a>

# SEMESTER

# VI

Wisdom Maketh World



Course Code	APPAREL MERCHANDISING			L	T	P	C
<b>Core-IX</b>				<b>5</b>	<b>-</b>	<b>-</b>	<b>5</b>
<b>Fundamentals of Merchandising</b>				<b>Syllabus</b>	<b>2022 Onwards</b>		
<b>Course Objectives:</b>							
<ul style="list-style-type: none"> <li>To acquaint students with various marketing and merchandising procedures</li> <li>To enhance a skillful inspection procedures</li> <li>To improve the process flow of apparel industry knowledge.</li> </ul>							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Identify the process of merchandising						K5
2	Understand about the process flow of apparel industry.						K2
3	Analyse various processes and follow ups in apparel industry.						K5
4	Recognize the need for visual merchandising						K2
5	Evaluate the methods of application of VM techniques						K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Merchandising</b>						
Merchandising: Introduction, Meaning- Apparel Merchandising- Organization structure of an apparel industry – Classification of Exporters - Rating or Grading of export houses – Classification of buyers – Export merchandising and retail merchandising – Company profile and its contents. Types of merchandiser - Functions of a merchandiser – Essential requisites of a good merchandiser – Vendor sourcing, evaluation and development							
<b>Unit:2</b>	<b>Processes &amp; Planning</b>						
Process flow in apparel industry – Buyer sourcing & communication – Enquiry – Order confirmation – order review and its importance – Planning & programming: Master planning, Scheduling or route card – Factors for route card - programming for yarn, knitting, dyeing, stitching, sampling, accessories – Samples: Meaning & importance – Types of samples – expedition of samples.							
<b>Unit:3</b>	<b>Follow-ups</b>						
Inspection and its types – Testing – Check points before cutting - Pilot run or trial run and its importance – Approvals - Types of approvals – Shipping marks – Final inspection procedures – Self, Second and Third party inspection - Effective expedition procedures. Order sheet and its contents – Packing list and its contents – Document formats: order sheet, packing list, invoice, Inspection and testing reports etc., - Assortment and its types. Documents recording and maintenance – Claims and reasons for claims - Factory audits – Buyers code of conducts.							
<b>Unit:4</b>	<b>Visual Merchandising</b>						
Visual merchandising, Visual display - Fashion communication – Visual / 3D visual –Elements of visual merchandising, Comparison of Visual Merchandising with Fashion Merchandising Visual merchandising as a communication tool, presentations in visual merchandising, Software used in merchandising, Merchandise Planning Software, buy ease software.							
<b>Unit:5</b>	<b>Applications of Visual Merchandising</b>						
Applications of Visual Merchandising – Exterior, Interior, Trade show & Fair, Fashion show- Definition, planning, budgeting, location, timings, selection of models, collection, set design, music, preparing the commentary , choreography, rehearsal .							



<b>Text Book(s)</b>	
1	Daragho' Reilly, Jullian J. Gibbs, —Building Buyer Relationships
2	—Inside the Fashion Business, McMillan Publishing Co.
3	—Fashion Merchandising, Elian Stone,
4	Krishnakumar, M, —Apparel Merchandising-An integrated Approach, Abishek Publications, 2010,
5	Jerry A & Rosenau, —Apparel Merchandising, Fairchild Publications, London
6	Bose, —A: Streamline Your Export Paper Work, International Trade Form, Oct – Dec 1965.
7	Mary G.Wolfe, —Fashion Merchandising & Merchandising , 4th Edition, The Good heart-WillcoxCo., Inc, Illions, 2014.
8	Gini Stephens Frings, —Fashion- from Concept to Consumer, 9th Edition, Pearson Education Ltd, Harlow, 2014.
9	Martin M. Pegler, —Visual Merchandising and Display, 6th Edition, Fairchild Books, UK.
10	Judy Shepard, —New Trends in Visual Merchandising – Retail Display Ideas that Encourage Buying, Harper Design Publishers, 2013.



<b>Course Code</b>	<b>FASHION BUSINESS STARTUP</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>5</b>
<b>Basic Procedures for Startup a Fashion Business</b>		<b>Syllabus</b>	<b>2022 Onwards</b>		
<b>Course Objectives:</b>					
The main objectives of this course are to:					
<ol style="list-style-type: none"> <li>1. Frame business concepts and solve challenging tasks.</li> <li>2. Create ideas and strategies in order to effectively bring a business concept into action.</li> <li>3. Understand financing and fund raising</li> <li>4. Capture opportunity and mitigate business risks.</li> </ol>					
<b>Expected Course Outcomes:</b>					
On the successful completion of the course, student will be able to:					
1	Understand the testing procedure for various yarn parameters				K2
2	List out the specifications for various woven & knitted fabrics				K2
3	Differentiate the various systems used for fabric inspection				K3
4	List out the possible defects and its causes in apparel production				K2
5	Differentiate the categories of defects in garment and the various standards followed in apparel testing				K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>					
<b>Unit:1</b>	<b>Business Concept Theories</b>				
Framework of Business Theories - Economic Theory, Sociological Theory, Psychological Theory and Resource-Based Theory. Framework of Business Model - Social Development Model, Competency Model, Emerging Models of Corporate Entrepreneurship. Classification of Business – Environmental Scanning, Need Assessment, Resource Assessment, Sources of Supply; Challenges of New Venture Strategies, Pitfalls in Selecting New Ventures, Critical factors for New Venture Development, Sources of Finance and Problems.					
<b>Unit:2</b>	<b>Business Opportunity Identification</b>				
Business Plan Preparation and Project Financing; Need and Relevance of Business Plan; Market Feasibility; Technical Feasibility; Financial Viability; Project Report Preparation. Identification of Business Opportunities in the Context of Tamil Nadu – Industrial Policy; Skill Development for Entrepreneurs; Business Incubation Centers; Start-up Policy Framework and Incentives					
<b>Unit:3</b>	<b>Business Identity</b>				
Identity search: Crises, Exploration, Stress, Choice; Identity Formation - Preparation, Building New Identity; Identity Establishment - Management, Role Stress, Identity Integration, Linkage Building; Exercises - TAT, Analyzing Imagery, Risk Taking Styles, Goal Setting Behavior; Creativity and Business Idea - Methods of Idea Generation - Creative Problem Solving through business identity.					
<b>Unit:4</b>	<b>Small Business Management</b>				
Definition of Small Business, an overview of Small, Medium and Large Industries. Strategic Management: Vision, Mission and Objectives of small business, Environmental analysis -					

PEST Framework, Porter's 5 Forces Model, Internal Environment Analysis - SWOT Framework; Competitive Strategies — Cost Leadership, Differentiation & Focus; Value Chain Analysis. Technical and Financial Aspects of Small Business; Importance of Selection Process and Technologies; Balancing the Resources to Optimize Costs; Financial Statement Analysis; Strategizing - Expansion, Diversification, Modernization of small business.

<b>Unit:5</b>	<b>Business Communication and Ethics in Business &amp; Institutional Support System for Business Startup</b>
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**Business Communication and Ethics in Business**

Introduction to Communication in Organizations - Types, Process and Barriers of Communication Professional Use of the Telephonic Interview, Group Discussion and Making Presentations. Effective Customer Care, Appropriate Mechanism for Handling Complaints, Negotiating with Customers, Business Etiquettes and Body Language. Business Ethics: An Overview; Ethical Decision-making – Why Ethical Issues and Problems occur in Workplace; Managing Ethical Behavior in Workplace; Professional Ethics Vs. Values and Moral in Workplace.

**Institutional Support System for Business Startup**

Sources of Finance for Short, Medium and Long Term; Venture Capital- Sources and Criteria Financing Steps; External Resource Generation - Licensing, Franchising, Strategic Alliance, Joint Venture, Merger, Private Placements.

**Text Book(s)**

1	Bygrave, W., & Zacharakis, A. (2017) Entrepreneurship, 4th Edition (3rd Edition is ok too) Wiley.
2	2. Avraham Shtub, Michael Rich, (2019), Managing your startups new product development projects, World Scientific Publishing company limited.
3	3. Jonathan Sutherland, Diane Canwell, (2014), Key Concepts in Business Practice, Palgrave
4	Macmillan publications.

**Related Journals**

1	The Journal of Entrepreneurship – Sage publications
2	2. The International Journal of Entrepreneurship and Innovation – Sage publications
3	3. Strategic Entrepreneurship Journal - Wiley Online Library International
4	4. Journal of Entrepreneurship and Small Business – Inter Science

Course code	INTERNATIONAL TRADE AND DOCUMENTATION			L	T	P	C
	MBEC-II			4	-		4
Basic Knowledge in International trade				Syllabus		2022 Onwards	
<b>Course Objectives:</b>							
To study the Trade procedures and documentation formalities are a critical part of International Business Management. This subject aims at imparting knowledge of trade procedures and documentation formalities.							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
1	Remember and evaluate and justify the various documents for processing export and K1 import orders.						K1
2	Understand the implications of foreign trade policy.						K2
3	Understand the imparting knowledge of trade procedures and documentation K2 formalities.						K2
4	Apply the legal implications in the area of exports and imports.						K3
5	Analyse and asses the various terms and conditions of export finance.						K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit: 1</b>	<b>Firm Establishment</b>						
Firm establishment: introduction – export promotion councils and their role – registration Formalities - RCMC –IE code – RBI code – garment classification and categories for various countries – quota – quota distribution methods – quota transfer.							
<b>Unit: 2</b>	<b>Foreign Trade Documents</b>						
Foreign trade documents: need, rationale and types of documents relating to goods – invoice – packing note and list – certificate of origin – certificate relating to shipments – mate receipt – shipping bill – cart ticket – certificate of measurement – bill of lading – air way bill – documents relating to payment – letter of credit – types of L/C - bill of exchange – letter of hypothecation – bank certificate for payment – document relating to inspection – certificate of inspection – GP and other forms.							
<b>Unit: 3</b>	<b>Import Procedure</b>						
Import procedure : import license – procedure for import license – import trade control regulation procedure – special schemes – replenishment license – advance license – split up license – spares for after sales service license – code number – bill of entry							
<b>Unit: 4</b>	<b>Shipment &amp; Customs</b>						
Shipment and customs: Pre shipment inspection and quality control – foreign exchange formalities – Pre shipment documents - documentation terms - excise and customs clearance of export cargo – shipment of goods and port procedures – customs clearance of import cargo. Post – Shipment formalities and procedures – claiming duty drawback and other benefits.							
<b>Unit: 5</b>	<b>Payment and Deliveries</b>						
Methods of payment in international trade; documentary collection of export bills, UCPDC guideline, Instruments of payments, Pre-shipment and post-shipment finance, Negotiation of documents with banks, Main Provisions of FEMA; Procedure and documentation for availing export incentives.							
<b>Text Books</b>							
1	International Trade and Documentation, Edward G Hinkelman, Publisher: World Trade Press						



	2001.
2	Streamline Your Export Paper Work, Bose. A., Published by International Trade Form, Oct – Dec 1965.
3	Export and Import Management, Aseem Kumar, Excel Publications, 2007.
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.marketresearchreports.com/apparel-retailing">https://www.marketresearchreports.com/apparel-retailing</a>
2	<a href="https://smallbusiness.chron.com/analysis-retail-apparel-industry-70514.htm">https://smallbusiness.chron.com/analysis-retail-apparel-industry-70514.htm</a>
3	<a href="https://www.marketresearch.com/Consumer-Goods-c1596/Consumer-Goods-Retailing-c80/Apparel-Retailing-c1093/">https://www.marketresearch.com/Consumer-Goods-c1596/Consumer-Goods-Retailing-c80/Apparel-Retailing-c1093/</a>





<b>Course code</b>		<b>GARMENT ANALYSIS &amp; PRODUCT DEVELOPMENT PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Core Practical-VIII</b>			<b>1</b>	<b>-</b>	<b>4</b>	<b>3</b>
<b>Basic Skills for Industrial Engineering of Apparel Industry</b>			<b>Syllabus</b>		<b>2022 Onwards</b>	
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. To train the students in design process & apparel product development						
2. To impart the students to create different type of garments						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
1	Analyse garment design and construction methods					K4
2	Understand the various seam finishes					K2
3	Analyze the garment assembling process flow chart					K4
4	Create machine layout for particular style.					K6
5	Create tech pack file					K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>GARMENT ANALYSIS &amp; PRODUCT DEVELOPMENT</b>						
<ol style="list-style-type: none"> <li>1. Break down analysis of different garments (Number of parts assembled )</li> <li>2. Process flow chart for a garment assembling</li> <li>3. Seam finishing details of each part of a garment.</li> <li>4. Type of sewing machines needed for assembling different parts of a garment.</li> <li>5. Machine Layout.</li> <li>6. Prepare design process</li> <li>7. Prepare tech pack</li> </ol> <ul style="list-style-type: none"> <li>• Each Student should analyse 10 ready to wear garments (kids wear/ men's wear/ women's wear).</li> <li>• Designs may be inspired by national or international designer collection based on current trends.</li> <li>• Students should prepare Garment Tech pack file.</li> <li>• Garment tech pack file comprises all flat sketches, garment flow process details accessory and trims specification details and costing chart for single piece.</li> </ul>						

Course code	PORTFOLIO PRESENTATION-VIVA VOCE	L	T	P	C
CORE PRACTICAL-IX		2	-	4	4
Knowledge in creating various garments		Syllabus		2022Onwards	
<b>Course Objectives:</b>					
The main objectives of this course are to:					
<ol style="list-style-type: none"> <li>1. To design and execute an organized collection of creative works</li> <li>2. To make original works of art that demonstrates effective use of design principles</li> <li>3. Design collections by fulfilling the objectives of the client and user requirements.</li> </ol>					
<b>Expected Course Outcomes:</b>					
On the successful completion of the course, student will be able to:					
1	Apply the design principles to create a series of design collections.				K3
2	Apply various boards for the exhibition of their works in a portfolio.				K3
3	Analyze fashion forecasting for the specific season, customer profile and price range to create a portfolio collection.				K4
4	Create a well-structured and professionally presented portfolio.				K6
5	Create a design philosophy communicating their design capabilities.				K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>					
<b>Portfolio Presentation and Design Collection</b>					
<b>Part A</b>					
Portfolio Presentation - with Customer profile, Inspiration board, Mood Board, Colour board, Flat Sketch board, Illustration board, Swatch board, Trim board, Accessory board- for the following collection					
<ul style="list-style-type: none"> <li>• Fashion Show- with a theme – one ramp set</li> <li>• Winter collection - 3 garments</li> <li>• Summer Collection -3 garments</li> </ul> <ol style="list-style-type: none"> <li>1. Customer profile: capture photograph of customer.</li> <li>2. Inspiration board: Image collection from books and magazines by scanning, Photography and drawing, use of objects for mood creation</li> <li>3. Mood board: develop a theme based on group discussion, mind mapping, brain storming.</li> <li>4. Colour board: spotting theme board, mood board and inspiration board arrive the color board.</li> <li>5. Flat sketch board: Develop front, side and back views</li> </ol>					
<b>Part B</b>					
<ol style="list-style-type: none"> <li>1. Construct the garments for all the above categories</li> </ol>					
<b>Contemporary Issues</b>					
Expert lectures, online seminars – webinars					
<b>Text Books</b>					
1	Portfolio Presentation for Fashion Designers, Linda Tain, Fairchild Publishers (1998)				
2	Fashion Design Drawing and Presentation, Patrick John Ireland, B T Batsford Ltd, 2006				
3	Creative Fashion Presentation, Polly Guerin, Fairchild Publishers, 1987				
4	New Encyclopedia of Fashion Details, Patrick John Ireland, Publisher: Pavilion Books, 2008				
5	Check and Stripe: A Design-Source Book 2, Kyoto Shoin Company Ltd. 1992				
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>					
1	<a href="https://issuu.com/theodoracucu/docs/portfolio_internship_ba">https://issuu.com/theodoracucu/docs/portfolio_internship_ba</a>				
2	<a href="https://successfulfashiondesigner.com/fashion-portfolio/fashion-portfolio-checklist/">https://successfulfashiondesigner.com/fashion-portfolio/fashion-portfolio-checklist/</a>				

Course code		BEAUTY CARE PRACTICAL	L	T	P	C
SBEC Practical-IV			3	-	2	4
Beauty care skills			Syllabus		2022 Onwards	
<b>Course Objectives:</b>						
<ol style="list-style-type: none"> <li>1. Produce a capable &amp; skillful workforce as required by the prevailing market demands.</li> <li>2. Equip the trainees with skills &amp; knowledge to ensure adherence to safety measures in saloon.</li> <li>3. Select, operate and handle equipment according to the professional standards</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Students can establish their own beauty parlor.					K6
CO2	They can groom themselves at their home.					K6
CO3	Students may join any beauty parlor					K6
CO4	They can join sectors such as airline, show business etc, where numerous females work, and are essentially required to put on makeup and hairstyle.					K3
CO5	Practice beauty techniques					K3
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>						
<ol style="list-style-type: none"> <li>1. Different types of haircuts, cutting techniques &amp; blow drying of hair.</li> <li>2. Traditional hair styling techniques- Rolls, Braids, interlocks, Twisting styles.</li> <li>3. Henna designing, Tattoo designing &amp; sarees draping (4styles).</li> <li>4. Basic Nail art techniques.</li> <li>5. Facial -Skin analysis, cleaning &amp; facial with different equipment's, application of different types of packs &amp; masks according to the skin types.</li> <li>6. Different types of make-up - Daytime, Evening, Party &amp; Bridal.</li> <li>7. Pedicure &amp; manicure.</li> <li>8. Threading &amp; waxing</li> </ol>						
<b>Text Books</b>						
1	Complete Beautician Course by Renu Gupta					
2	Be your own Beautician by Parvesh Handa					
3	Advance makeup and hairstyle by Urvashi Dave					
<b>Related Online Contents</b>						
1	<a href="https://bit.ly/2DB2WQM">https://bit.ly/2DB2WQM</a>					
2	<a href="https://youtu.be/sYoz3G2OH5g">https://youtu.be/sYoz3G2OH5g</a>					
3	<a href="https://youtu.be/_o9cpvQPqBY">https://youtu.be/_o9cpvQPqBY</a>					

## LIST OF EQUIPMENTS REQUIRED FOR A BATCH OF 40 STUDENTS

SEM	COURSE CODE	COURSE	EQUIPMENTS
I	Allied Practical-I	Basics of Apparel Designing Practical	1. Working surface – pattern making / cutting table (polished or laminated top) 10 feet length*5 feet width*3 feet height- 4 No. 2. Fabric and paper scissors- 20 No. Each 3. Rulers – 12   and 36  - 20 No. 4. Tailor’s square – 24   x 14   – 20 No. 5. Curve rules – French curves, hip curves and vary form curve - 40 No. Each 6. Pattern notcher, tracing wheel, awl - 5 No. Each 7. Measuring tape - 40 No. 8. Pattern weights - 20 No. 9. Dress forms (Full and Half) – Kids, Children’s, Women’s and Men’s – Each 5 No. 10. Pinking Scissors – 10 No.  <b>High speed industrial sewing machines</b> 11. Single needle lock stitch machine- 40 No. 12. Double needle lock stitch machine- 1 No. 13. Over-lock machine- 1 No. 14. Flat lock machine- 1 No. 15. Zigzag machine- 1 No. 16. Straight knife cutting machine- 1 No. 17. Steam pressing table (Desirable) – 1 No. 18. Iron box (electric) – 5 No. 19. Buttonhole machine – 1 No. 20. Button Stitch machine-1 No 21. Feed of arm machine- 1 No
III	Core Practical-II	Children’s Apparel Practical	
IV	Core Practical-IV	Women’s Apparel Practical	
V	Core Practical-VI	Men’s Apparel Practical	
I	Allied Practical-II	Fashion Illustration & Sketching Practical	
II	Core Practical-VII	Fashion Draping Practical	1. Dress forms- Adult-Male-5, adult-female-5, Children-Boy-5, Girl-5 2. Mannequin-Adult-male-1 or 2, female-1or 2, child- boy-1 or 2, girl-1or 2
II	Core Practical-I	Fashion Design Concepts & Methodology Practical	1.Faber castle pencil 2. Poster colors 3. Acrylic colors 4.Palettes 5.Brush set 6.Fabric



III	Core Practical-III	Fibre to Fabric Science Practical	<ol style="list-style-type: none"> <li>1. PICK Glass – 40 No.</li> <li>2. GSM Cutter – 1 No.</li> <li>3. Beesley Balance – 1 No.</li> <li>4. Crimp Tester – 1 No.</li> <li>5. Electronic balance – 1 No</li> <li>6. Microscope – 1 No.</li> <li>7. Density gradient column-1 No.</li> <li>8. Weighing balance – 1 No.</li> <li>9. Conditioning Oven – 1No.</li> <li>10. Wrap reel-1 No.</li> <li>11. Yarn twist tester- 1 No.</li> <li>12. Lea strength tester- 1 No.</li> </ol>
III	SBEC Practical-I	E-Designing Practical	<ol style="list-style-type: none"> <li>1. Desktop Computers – 40 No. (Installed with Illustrator, CorelDraw &amp; Photoshop Software)</li> </ol>
IV	Core Practical-V	Textile Wet Processing Practical	<ol style="list-style-type: none"> <li>1. Beakers 50ml,100ml, 250ml 500ml, Each 20 No</li> <li>2. Water bath, Thermometers- 1 No.</li> <li>3. Stirrer – 40 No.</li> <li>4. Printing screen, Wooden blocks</li> <li>5. Pilot padding mangle – 1 No.</li> <li>6. HTHP Beaker dyeing machine – 1 No.</li> <li>7. Fastness tester (Grey scale) for Washing, Light, Perspiration &amp; Rubbing</li> <li>8. Printing table</li> <li>9. Weighing Balance</li> <li>10. Spatchula – 40</li> <li>11. Test Tube, Stand, Holder</li> <li>12. Measuring Jar</li> <li>13. Spirit Lamp</li> <li>14. Vessel Holder</li> <li>15. Basin</li> <li>16. Nail blocks</li> <li>17. Gloves</li> <li>18. Electric Stove</li> <li>19. Lauder- o - meter</li> <li>20. Dyes, Pigments &amp; Chemicals</li> </ol>
V	SBEC- III	Computer Aided Pattern Designing Practical	<ol style="list-style-type: none"> <li>1. Desktop Computers – 40 No. (Multi user Garment CAD Software with access of 40 systems)</li> </ol>
VI	SBEC- IV	Beauty Care Practical	<ol style="list-style-type: none"> <li>1. Hair Puff -10 No.</li> <li>2. Artificial Nail &amp; Kit - 10 No.</li> <li>3. Scissors – 10 No</li> <li>4. Hair dryer – 1 No.</li> <li>5. Hair Straighten – 1 No.</li> <li>6. Palettes- 10 No.</li> <li>7. Facial steamer – 5 No.</li> <li>8. Hydraulic Facial Chair- 1 No</li> <li>9. Bleaching Kit</li> </ol>



			<ol style="list-style-type: none"><li>10. Gloves</li><li>11. Wax sheet</li><li>12. Eye brow thread</li><li>13. Head Band</li><li>14. Brushes kit</li><li>15. Eye liner</li><li>16. Rose water</li><li>17. Moisturizing cream</li><li>18. Sponge</li><li>19. Shampoo</li><li>20. Pedicure &amp; Manicure kit</li><li>21. Water bowl</li><li>22. Tiny stool</li></ol>
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