

# ALAGAPPA UNIVERSITY

(Accredited with A+ Grade by NAAC (CGPA: 3.64) in the Third Cycle, Graded as Category-I University and granted autonomy by MHRD UGC)

## DIRECTORATE OF COLLABORATIVE PROGRAMMES



## **B.Sc. Fashion and Apparel Merchandising**

Regulations and Syllabus

[For those who join the Course in July 2023 and after]

CHOICE BASED CREDIT SYSTEM

## REGULATIONS

**NAME OF THE PROGRAMME :** **B.Sc., Fashion and Apparel Merchandising**

**ELIGIBILITY** A minimum pass in Higher Secondary Examination (HSC)/PUC/Intermediate or Equivalent, or an examination accepted as equivalent thereto by the Syndicate for admission to **B.Sc.Fashion and Apparel Merchandising.**

**PATTERN:** Semester

**DURATION :** The course shall extend over a period of **Three years** under the Semester pattern.

The duration of the Course will be about 170 days. The subjects of study shall be in accordance with the syllabus prescribed from time to time.

### **CONTINUOUS INTERNAL ASSESSMENT:**

The respective course faculty will continuously assess the performance of students in each course. The continuous internal assessment marks shall be awarded by the concerned course faculty based on the performance of the students in case studies, paper presentations, quizzes. Practical, tests and other assignments.

### **ATTENDANCE:**

Students who secure at least 80% of attendance in the year will only be eligible to appear for the examination of that year. Those who fail to secure the required attendance shall repeat the same year/ course during the subsequent academic year.

### **UNIVERSITY EXAMINATIONS:**

The University examinations will be held at the end of the semester for a duration of three hours for each subject.

### **EVALUATION OF ANSWER PAPERS:**

Answer papers of the University examinations shall be subjected to evaluation by a Board of Examiners constituted by Alagappa University.

### **PASSING MINIMUM:**

The passing minimum for the University examination is 50% of the total marks of the university examination in each subject. The overall passing minimum is 50% both in the external and aggregate of Internal and external in each subject. There are no minimum prescribed marks for passing in the internal assessment.

**CLASSIFICATION:** Their classification of marks will be as follows.

60% and above - I Class

50% to 59% - II Class

## **AWARD OF DIPLOMA:**

Students who successfully complete the programme within the stipulated period will be awarded B.Sc., Fashion and Apparel Merchandising

## **COURSE COMPLETION:**

Students shall complete the programme within a period not exceeding 5 years from the year of completion for the period of study.

## **MISCELLANEOUS**

- a. Each student possesses the prescribed text books for the subject and the workshop tools as required for theory and practical classes.
- b. Each student is issued with an identity card by the University to identify his / her admission to the course
- c. Students are provided library and internet facilities for development of their studies.
- d. Students are to maintain the record of practicals conducted in the respective laboratory in a separate Practical Record Book and the same will have to be presented for review by the University examiner.
- e. Students who successfully complete the course within the stipulated period will be awarded the degree by the University.
- f. The Internship / Project (any other viva-voce) where an external examiner is assigned from the university, there may be changes in the exam dates as per the availability of the External Examiner.

## **FEE STRUCTURE**

Course fee shall be as prescribed by the University and 50% of the course fee should be disbursed to University. Special fees and other fees shall be as prescribed by the Institution and the fees structure must be intimated to the University. Course fees should be only by Demand draft / NEFT and AU has the right to revise the fees accordingly.

## **Semester Pattern**

<b>Pattern</b>	<b>Course Fee payment deadline</b>
Semester	Fee must be paid before 10 <sup>th</sup> February of the academic year

## **Other Regulations:**

Besides the above, the common regulation of the University shall also be applicable to this programme.

## **Industrial Exposure:**

The course is professionally the students are required to undergo industrial exposure in the 6<sup>th</sup> Semester of the programme. 6<sup>th</sup> Semester training is to introduce the students to the operational aspects of a Broiler, Breeder, Layer, Feed Mill, Hatchery and Processing Plant

## B.Sc., Fashion and Apparel Merchandising (For students admitted from 2023 & onwards)

Course – B.Sc. Fashion and Apparel Merchandising

Duration–Three Years

Eligibility–HSC & Any Degree from a Recognized University

Medium–English

B.Sc., Fashion and Apparel Merchandising										
Sem.	Part	Course Code	Sub Code	Title of the Paper	T/P	Credits	Hrs./ Week	Max. Marks		
								Int.	Ext.	Total
I	I	T/OL	81611T/11H/11F	Tamil/Other Languages I	T	3	4	25	75	100
	II	E	81612	General English-I	T	3	4	25	75	100
	III	CC	81613	Concept of Fashion Designing	T	4	5	25	75	100
		CC	81614	Basics of Textile Manufacturing	T	4	5	25	75	100
		Allied	81615	Basic Illustration	P	4	5	25	75	100
		CC	81616	Fundamentals of Apparel Construction	P	2	4	25	75	100
	IV	SEC - I	81617	Value Education	T	2	2	25	75	100
				Library			1			
				<b>Total</b>		<b>22</b>	<b>30</b>	<b>175</b>	<b>525</b>	<b>700</b>
II	I	T/OL	81621T/H/F/M/TU/A/S	Tamil/Other Languages II	T	3	4	25	75	100
	II	E	81622	General English - II	T	3	4	25	75	100
	III	CC	81623	Fabric Manufacture	T	4	5	25	75	100
		CC	81624	Principles of Pattern Making	T	4	5	25	75	100
		Allied	81625	Fashion Illustration -1	P	2	4	25	75	100
		CC	81626	Basic Pattern Making & Construction	P	4	5	25	75	100
	IV	SEC- II	81627	Environmental Studies	T	2	2	25	75	100
				Library			1			
				<b>Total</b>		<b>22</b>	<b>30</b>	<b>175</b>	<b>525</b>	<b>700</b>
III	I	T/OL	81631T/H/F/M/TU/A/S/	Tamil/Other Languages-III	T	3	4	25	75	100
	II	E	81632	General English – III	T	3	4	25	75	100
	III	CC	81633	Apparel Machinery and Equipments	T	3	3	25	75	100
		CC	81634	Textile Coloring and Finishes	T	3	3	25	75	100
		CC	81635	Children's Apparel	P	4	4	25	75	100

		CC	81636	Fashion Illustration II	P	4	4	25	75	100
		Allied	81637	Computer Aided Designing- I	P	2	4	25	75	100
	IV	SEC - III	81638	Entrepreneurship	T	2	2	25	75	100
		NME - I	81639A 81639B 81639C	1. Adipadai Tamil - I	P	2	2	25	75	100
				2. Advanced Tamil - I	T					
3.IT Skills for Employment/				T						
4. MOOC'S	T									
			<b>Total</b>		<b>26</b>	<b>30</b>	<b>225</b>	<b>675</b>	<b>900</b>	
IV	I	T/OL	81641T/H/F/ M/TU/A/S	Tamil /Other Languages -IV	T	3	4	25	75	100
	II	E	81642	General English – IV	T	3	4	25	75	100
	III	CC	81643	Historic Costumes and Textiles of India	T	4	4	25	75	100
		CC	81644	Apparel and Quality Control	T	4	4	25	75	100
		CC	81645	Textile Testing	P	4	4	25	75	100
		CC	81646	Men's Apparel	P	4	4	25	75	100
		Allied	81647	Art and Craft	P	2	4	25	75	100
	IV	NME - II	81648A 81648B 81648C	1.Adipadai Tamil - II	P	2	2	25	75	100
				2.Advance Tamil - II	T					
				3. Small Business Management	T					
4. MOOC'S				T						
			<b>Total</b>		<b>26</b>	<b>30</b>	<b>200</b>	<b>600</b>	<b>800</b>	
V	I	CC	81651	Garment Costing	T	3	4	25	75	100
		CC	81652	Fashion Merchandising and Marketing	T	4	5	25	75	100
		DSE 1	81653A 81653B	Elective –I A- Visual Merchandising B- Retail Management	T	4	6	25	75	100
		CC	81654	Women's Apparel	P	4	5	25	75	100
		CC	81655	Surface Embellishment and Accessories	P	4	5	25	75	100
		CC	81656	Computer Aided Designing – II	P	4	5	25	75	100
				<b>Total</b>		<b>23</b>	<b>30</b>	<b>150</b>	<b>450</b>	<b>600</b>
VI	I	CC	81661	Fashion Clothing Psychology	T	3	4	25	75	100
		CC	81662	Fashion Entrepreneurship Development	T	3	4	25	75	100

	DSE 2	81663A 81663B	Elective –II A- Technical Textiles & Non-woven B- Home Textiles	T	4	6	25	75	100
	CC	81664	Fashion Portfolio	P	3	4	25	75	100
	CC	81665	Industrial and Project Viva	PR	8	12	25	75	<b>100</b>
			<b>Total</b>		<b>21</b>	<b>30</b>	<b>125</b>	<b>375</b>	<b>500</b>
	<b>Grand Total</b>				<b>140</b>	<b>180</b>	<b>1050</b>	<b>3150</b>	<b>4200</b>

SEMESTER - I					
Course Code 81613	BSC FAM	CONCEPT OF FASHION DESIGNING	T	Credits:4	Hours:5
UNIT - I					
Objective I	Impart knowledge fashion industry and merchandising				
Terms related to the fashion industry – fashion, style, fad, classic, and collection, Trend, Custom made, fashion show, forecasting, high fashion, fashion cycle, haut couture, fashion director, fashion editor, buying house, pret- a –porter, fashion merchandising,					
Outcome 1	Learn and Gain Knowledge about fashion cycle and fashion Merchandising Questions: What, Explain, Define.				K3
UNIT - II					
Objective 2	To learn about the elements of design and principles of design				
Design- definition and types – structural and decorative design, Elements of design – line, shape or form, colour, size and texture, selection and application of trimmings and decorations. Principles of design- balance – formal and informal, rhythm- through repetition, radiation and gradation, emphasis, harmony and proportion.					
Outcome 2	Understanding about design and It's Types Questions: What, About, Classify.				K2
UNIT - III					
Objective 3	To teach the color theories and applications				
Color- definition, color theories- prang color chart and Munsell color system, Dimension of colors-hue, value, and intensity. Standard color harmonies, Related and contrasting color harmony. Applications of colors .					
Outcome 3	To identify the color chart and standard color harmonies Questions : Define, Explain, About				K1
UNIT - IV					
Objective 4	To improve and study about fashion accessories and learn about international fashion center				
Introduction to fashion accessories- (shoes, handbags, hats, ties), trimmings and decoration. Wardrobe planning for different age groups, factors influencing wardrobe selection, fashion and season, designing dress for different occasions. study of international fashion centers- France, Italy, England, Germany, Canada, newyork.					
Outcome 4	Understand the fashion accessories and wardrobe planning Questions: Explain, What, About.				K4

**UNIT - V****Objective 5**    **To know the fashion focus and international designers**

Fashion Focus – Roles in the designers, Manufacturers, Retailers. 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. Factors influencing fashion movements- recurring fashion.

**Outcome 5**    **Understand the roles in fashion movements and fashion focus**  
**Questions : explain, what, List Out.****K4****Reference & Text Books**

1. World of fashion, (2020). “Fashion Design Guide for Beginners”
2. [Gini Stephens Frings](#) ,(2007) “Fashion: From Concept to Consumer”, Pearson
3. Sharon Lee Tate, (2008), “Inside Fashion Design”, Pearson Education Inc.
4. James Ezekiel, (2005)“An Insite Into Fashion History”, Abhishek Publications.
5. Michale R Solomon and Nancy J Robolt,(2006),“Consumer Behaviour in fashion”,Pearson Education Inc.

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

1. <https://tutorialspoint.com/fashion-merchandising-in-fashion-industry>
2. <https://medialoot.com/blog/the-elements-and-principles-of-design/>
3. <https://fashion2apparel.blogspot.com/2017/07/classification-loom.html>
4. [https://www.brainkart.com/article/Wardrobe-Planning\\_37460/](https://www.brainkart.com/article/Wardrobe-Planning_37460/)
5. <https://www.tutorialspoint.com/fashion-accessories>

SEMESTER - I				
Course Code 81614	BSC FAM	Basics of Textile Manufacturing	T	Credits:4 Hours:5
<b>UNIT - I</b>				
<b>Objective I</b>	<b>Impart knowledge on the fiber classification and Characteristics.</b>			
<b>Fiber:</b> Introduction to the field of textiles- classification of fibers –natural and manmade – primary and Secondary characteristics of textile fibers. Polymers-types of polymerization –End uses of cotton - jute-linen,pine apple,				
<b>Outcome 1</b>	<b>Recall about the Textile fibers and its characteristics</b>			<b>K1</b>
<b>UNIT - II</b>				
<b>Objective 2</b>	<b>To learn the fiber production, properties and uses.</b>			
<b>Fiber manufacturing process and its properties :</b> Manufacturing process, properties and uses of natural fibers – cotton, linen, Jute, sisal, silk, wool fibers, man-made fibers –Viscose rayon, nylon, polyester, acrylic.				
<b>Outcome 2</b>	<b>Understanding about various fibers properties and its applications</b>			<b>K2</b>
<b>UNIT - III</b>				
<b>Objective 3</b>	<b>To teach the conversion method of fiber into yarn.</b>			
<b>Yarn manufacturing Process:</b> Spinning –Definition and classification; Chemical and mechanical spinning. Flow chart of ring spinning process – Blow room, carding, combing, drawing, roving, spinning and cone winding. Yarn - Definition and classification- simple and fancy yarns. Yarn count and twist.				
<b>Outcome 3</b>	<b>Able to choose the yarn suitability of selected end use</b>			<b>K3</b>
<b>UNIT - IV</b>				
<b>Objective 4</b>	<b>To improve the knowledge in woven fabric production and cloth analyses</b>			
<b>Woven fabric production process:</b> Weaving Introduction, Elements and components of a simple loom; Essential weaving operation. Classification of looms and its advantages - Types of shuttle less looms – Ravier – Projectile – Air jet – Water jet- Basic Weaves and its properties – Plain weave, Twill, Satin and Sateen weave structures.				
<b>Outcome 4</b>	<b>Understand and analyses the various types of woven fabrics</b>			<b>K4</b>
<b>UNIT - V</b>				
<b>Objective 5</b>	<b>To understand the knitted fabric production, Analyses the structure and non-woven fabric applications</b>			
<b>Knitted &amp; Nonwoven fabric manufacturing process:</b> Knitting introduction-classification of weft & warp knitting-elements of knitting-comparison between knitting and weaving, knitted fabric and woven fabric. Working process of single and double jersey machines. Type's knitting needles and stitches (knit, tuck, and miss stitch). Types of knitted structures-plain, rib purl and interlock. Knitted fabric defects – causes and remedies. Introduction and application of Nonwoven fabric.				

<b>Outcome 5</b>	<b>Understand and analyses the various types of knitted fabrics.</b>	<b>K5</b>
<b>Reference &amp; Text Books</b>		
1.	P.V. Vidyasagar, (2005). “Hand Book of Textiles”, A. Mittal Publications	
2.	Bernard P. Corbman, (1983 ).“Textiles Fiber to Fabric” McGrawhill Publications.	
3.	Ganapathy Nagarajan,(2014).Textile Mechanisms in Spinning and Weaving Machines, Woodhead Publishing India in Textiles.	
4.	Fannin, Allen .A, (1998). Handloom weaving technology, Green editorial,	
5.	W.S. Murphy, (2003 ).“Textile Weaving & Design”, Abhishek Publication,	
6	The principles of knitting: Methods and techniques of hand knitting. Hiatt, June Hemmons, Simon & Schuster, 2012	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1.	<a href="https://textilelearner.net/category/fiber/">https://textilelearner.net/category/fiber/</a>	
2.	<a href="https://textilestudycenter.com/category/yarn-engineering/">https://textilestudycenter.com/category/yarn-engineering/</a>	
3.	<a href="https://fashion2apparel.blogspot.com/2017/07/classification-loom.html">https://fashion2apparel.blogspot.com/2017/07/classification-loom.html</a>	
4.	<a href="http://textilefashionstudy.com">http://textilefashionstudy.com</a>	
5.	<a href="https://www.textileschool.com/textiles/fabric/non-woven/">https://www.textileschool.com/textiles/fabric/non-woven/</a>	

SEMESTER - I					
Course Code 81615	BSC-FAM	BASIC ILLUSTRATION	P	Credits:4	Hours:5
UNIT - I					
Objective I	To about the motifs and shading of the garment				
Perspective view drawing and objective drawing. Enlarging and Reducing Motifs Principles of shading – on garments with different types (children's, men's, women's)					
Outcome 1	To understanding the designing garment. <i>Questions: Illustrate ,classify, design, Outline,</i>				K1
UNIT – II					
Objective 2	To illustrate the facial features and hair style				
Illustrate facial features – eyes, lips, ears, hands and legs. Illustrate the hair style for (men and women) Drawing of accessories. <ul style="list-style-type: none"> <li>▪ Hat</li> <li>▪ Footwear</li> <li>▪ Bag</li> </ul>					
Outcome 2	To understand the Facial Features, Hair Style, accessories <i>Question: Illustrate, motif</i>				K2
UNIT – III					
Objective 3	To learn about the dimension of the color				
For the above experiment of PRANG COLOR, HUE, VALUE ,INTENSITY CHART through “Water color, Poster color.”					
Outcome 3	To understanding the dimension color <i>Question: Apply, motif, Draw</i>				K3
UNIT – IV					
Objective 4	To learn about the head theory				
Illustrate the head theory (10” & 12”)					

<b>Outcome 4</b>	<b>To understanding the head theory</b> <i>Question: Draw, Illustrate</i>	<b>K4</b>
<b>UNIT - V</b>		
<b>Objective 5</b>	<b>To learn about the stylish &amp; party wear</b>	
Illustrate the stylish wear and party wear (men and women)		
<b>Outcome 5</b>	<b>To understanding the different types of garment</b> <i>Question: Draw, Illustrate</i>	<b>K5</b>
<b>Reference &amp; Text Books</b>		
1.	Patrik John Ireland Batsford Ltd; edition 1982, Fashion design drawing and presentation.	
2.	Caroline Tatham, Julian Seaman Barron's Educational Series; 2011, Fashion design drawing course	
3.	By Kathryn Hagen 2004 by Prentice Hall, Fashion illustration for designers	
4.	Alexandra Suhner Pepin Press 2012, Technical Drawing for Fashion Design Vol. 2: Garment Source Book(Fashion Textiles)	

<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1.	<a href="http://www.rituberi.com">www.rituberi.com</a>
2.	<a href="http://www.manishmalhotra.in">www.manishmalhotra.in</a>
3.	<a href="http://www.rohitbal.com">www.rohitbal.com</a>
4.	<a href="http://www.benetton.com">www.benetton.com</a>

SEMESTER - I					
Course Code 81616	BSC (FAM)	FUNDAMENTALS OF APPAREL CONSTRUCTION	P	Credits:2	Hours:4
<b>UNIT - I</b>					
<b>Objective I</b>	<b>To stitch a samples for basic finishes</b>				
Preparation of samples for seam (any 5)-plain, Top Stitched, Flat fell, piped seam. Preparation of samples for seam finishes (any 3) - overcast, Hem, Edge stitched, bound..					
<b>Outcome 1</b>	<b>The various garment components like seam and seam finishes.</b> <b>Questions: To create , To stitch</b>				<b>K1</b>
<b>UNIT – II</b>					
<b>Objective 2</b>	<b>To create samples for basic garment outlines</b>				
Preparation of samples for fullness-darts, tucks - pin, group tucking, Pleats -knife, box, gathering by machine,elastic. Ruffles-single, double. Preparation of samples for facing and binding-bias facing, shaped facing, binding.					
<b>Outcome 2</b>	<b>The various garment components like fullness.</b> <b>Questions: To create , To design</b>				<b>K2</b>
<b>UNIT – III</b>					
<b>Objective 3</b>	<b>To create a samples</b>				
Preparation of samples for plackets and fasteners-zipper plackets, Tailored Placket, button and buttonhole,press button, hook and eye.					
<b>Outcome 3</b>	<b>The various garment components like plackets, fasteners.</b> <b>Questions: To create , To design</b>				<b>K3</b>
<b>UNIT – IV</b>					
<b>Objective 4</b>	<b>To create a samples with variation</b>				
Preparation of samples for sleeves-plain sleeve, puff sleeve, raglon or cap sleeve.Preparation of samples with yoke –simple yoke, yoke supporting fullness.					
<b>Outcome 4</b>	<b>The various garment components like sleeves, yoke.</b> <b>Questions: To create , To design</b>				<b>K4</b>
<b>UNIT - V</b>					
<b>Objective 5</b>	<b>To create a samples with variation</b>				
Preparation of samples for collar - Peter Pan collar, shirt collar. Preparation of samples for pocket-Patch Pocket, Bound Pocket.					
<b>Outcome 5</b>	<b>The various garment components like collar and pocket</b> <b>Questions: To create , To stitch</b>				<b>K5</b>

**Reference & Text Books**

- |    |   |
|----|---|
| 1. | <b>Gayatri Verma and Kapil Dev, “Cutting and tailoring course”, Computech Publications, 2009.</b> |
| 2. | <b>Shri K.R. Zarpkar, “System of cutting”, Navneet Publications (INDIA) limited, 2010.</b>        |
| 3. | <b>Mary Mathews, “Practical clothing construction”, Printed by Bhattarams, Copyright 1995</b>     |

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

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|----|---|
| 1. | <b><u><a href="http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf">http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf</a></u></b> |
| 2. | <b><u><a href="http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-">http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-</a></u></b>         |
| 3. | <b><u><a href="http://buc.edu.in/sde_book/fashion_design.pdf">http://buc.edu.in/sde_book/fashion_design.pdf</a></u></b>   |
| 4. | <b><u><a href="http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p">http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p</a></u></b> |

SEMESTER - II				
Course Code 81623	BSC FAM CC	Fabric Manufacture	T	Credits:4 Hours:5
<b>UNIT - 1</b>				
<b>Objective 1</b>	<b>To Know about the weaving and loom process</b>			
<b>Weaving-</b> Introduction. Process sequence of weaving preparatory process- Warping and Sizing Process. Loom Classification- Shuttle loom, Shuttle less looms – Airjet, Water jet, Rapier and Projectile. Essential weaving operations. Major components of the Loom.				
<b>Outcome 1</b>	<b>Understand the concepts of weaving process and loom usage</b> <b>Question; Define, classify, Analyse, Comparison.</b>			<b>K4</b>
<b>UNIT - 2</b>				
<b>Objective 2</b>	<b>To enable the students to know about weave structure designs</b>			
<b>Woven design</b> -Basic Elements of Woven Design- Design, Draft plan and Peg plan. Types of Weaves- Plain, Twill, Satin and Sateen. Fancy weaves.				
<b>Outcome 2</b>	<b>Understand the weaving structure</b> <b>Question; Define, classify, Explain, Apply.</b>			<b>K4</b>
<b>UNIT - 3</b>				
<b>Objective 3</b>	<b>To study the basic knowledge about Knitting and its applications.</b>			
<b>Knitting</b> - Introduction of knitting Industry. Types of knitting - knitting terms – course , wales, Loop- Open loop, Closed loop, Face loop, Back loop, Stitch Density, Gauge. Knitting machine working process. Comparison of knitting and weaving machines. Yarn quality Requirements for knitting.				
<b>Outcome 3</b>	<b>Understanding about various knitting Process and machinery used.</b> <b>Question; Define, classify, Explain, Apply.</b>			<b>K3</b>
<b>UNIT - 4</b>				
<b>Objective 4</b>	<b>To enable the students to know about Knitting elements</b>			
<b>Knitting elements</b> – Needles, Sinker, Cam, Cylinder. Types of Needles - Latch, Spring beard and Compound needle. Knitting action of latch needle. Weft knitting- Definition, Types of Stitches- Knit, Tuck and Miss. Flat knitting- Introduction and applications. Warp knitting- Introduction. Comparison of Weft knitting and Warp knitting Types of wefts knitted structures- Single jersey and Double jersey- Rib, Interlock and Purl. Knitted fabric faults.				
<b>Outcome 4</b>	<b>Able to understand Knitting end use and its defect analyzation</b> <b>Question; Define, objects, classify, Explain.</b>			<b>K2</b>
<b>UNIT – 5</b>				
<b>Objective 5</b>	<b>To teach the Knitting manufacturing process and types.</b>			
<b>Non Woven-</b> Introduction – Types - Non Woven manufacturing Techniques – Non-Wovens- felting, fusing, bonding ,lamination ,netting, braiding and calico, tating and crotcheting. Application of Non-wovens in various fields.				
<b>Outcome 5</b>	<b>Understand and analyses Warp and Weft Knitting and its properties</b> <b>Question; Define, classify, Analyse, Apply.</b>			<b>K1</b>

<b>Reference &amp; Text Books</b>	
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|----|--|
| 1. | Ganapathy Nagarajan,(2014).Textile Mechanisms in Spinning and Weaving Machines, Woodhead Publishing India in Textiles. |
| 2. | W.S. Murphy, (2003 ).“Textile Weaving & Design”, Abhishek Publication.   |
| 3. | Anbumani, (2006). Knitting Manufacture Technology, New Age International, Chennai.                                     |

<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
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| 1. | <a href="https://textilelearner.net/category/fabric/">https://textilelearner.net/category/fabric/</a>   |
| 2. | <a href="https://textilestudycenter.com/category/yarn-engineering/">https://textilestudycenter.com/category/yarn-engineering/</a>                         |
| 3. | <a href="https://fashion2apparel.blogspot.com/2017/07/classification-loom.html">https://fashion2apparel.blogspot.com/2017/07/classification-loom.html</a> |
| 4. | <a href="http://textilefashionstudy.com">http://textilefashionstudy.com</a>   |
| 5. | <a href="https://www.textileschool.com/343/fabric-wet-processing-techniques/">https://www.textileschool.com/343/fabric-wet-processing-techniques/</a>     |

SEMESTER - II					
Course code 81624	BSC FAM CC	Principles of Pattern Making	T	Credits:- 4	Hours:-5
UNIT - I					
<b>Objectives :1</b>	<b>To know the measurement and techniques</b>				
Body measurement – importance, lady’s measurements, boys and men’s measurements. tandardizing body measurements. Relative length and girth measures in ladies /gentlemen. Preparation of fabric for cutting –importance of grain in cutting and construction.					
<b>Outcome 1</b>	<b>The various measurements are used</b> <b>Questions: To use, to calculate</b>			<b>K1</b>	
UNIT – II					
<b>Objectives :2</b>	<b>To learn how to draft a pattern</b>				
Pattern making –method of pattern making – (Drafting and draping), merits and demerits. Types of paper patterns (Patterns for personal measurements and commercial patterns) Principles of pattern drafting. Pattern details, steps in drafting basic bodice front and back and sleeve.					
<b>Outcome 2</b>	<b>Understand the pattern types</b> <b>Questions: To create , to use</b>			<b>K3</b>	
UNIT - III					
<b>Objectives :3</b>	<b>To implement pattern in fabric layout</b>				
Styles created by shifting of blouse darts, adding fullness to the bodice. Fitting - Standards of a good fit, steps in preparing a blouse for fitting, solving fitting problems in a blouse, fitting techniques.					
<b>Outcome 3</b>	<b>Learned about pattern layout</b> <b>Questions: To mark , To measure</b>			<b>K4</b>	
UNIT-IV					
<b>Objectives :4</b>	<b>To draft about basic patterns</b>				
Pattern alteration –importance of altering patterns, general principles for pattern alteration. Pattern grading –definition, types, manual –master grades, basic front, basic back ,basic sleeve, basic collar.					
<b>Outcome 4</b>	<b>Learned about patterns outlines</b> <b>Questions: To draft, measure</b>			<b>K6</b>	
UNIT - V					
<b>Objectives :5</b>	<b>To create a allowances for given measurements</b>				
Pattern layout- definition, purpose, types of layouts for length wise stripped designs, fabric with bold design, asymmetric designs, one-way designs. What can be done if cloth is insufficient, transferring pattern marking.					
<b>Outcome 5</b>	<b>To learned about basic alteration</b> <b>Questions: To alter , To give</b>			<b>K2</b>	

**Reference & Text Books**

1. Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai(1986)
2. Pattern Grading for women's clothing, The technology of sizing –Gerry cooklin, Blackwell Science Ltd (1990)
3. Zarapker system of cutting –zarapker. K. r., Navneet publications Ltd.
4. Mary Mathews, “Practical clothing construction”, Printed by Bhattarams, Copyright 1995
5. “Cutting and tailoring course” Gayatri Verma and Kapil Dev, Computech Publications, 2009.

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

1. [http://www.go-woman.com/wpcontent/uploads/factsheets/FREE\\_Sewing\\_Book.pdf](http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf)
2. [http://brittlebooks.library.illinois.edu/brittlebooks\\_open/Books2009-](http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-)
3. [http://cbseacademic.in/web\\_material/doc/fashion\\_studies/3\\_XII\\_Text\\_Book.p](http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p)
4. [http://buc.edu.in/sde\\_book/fashion\\_design.pdf](http://buc.edu.in/sde_book/fashion_design.pdf)

SEMESTER - II					
Course Code 81625	BSC FAM Allied	Fashion Illustration -1	P	Credits: 2	Hours:4
<b>UNIT – I</b>					
<b>Objective I</b>	<b>Create 8,9,10 &amp; 12 Head Theory</b>				
Illustrate head theory for Men, Women-8,9,10 & 12 head					
<b>Outcome 1</b>	<b>Understand about head theory</b> <b>Questions: To Illustration , To Draw</b>				<b>K1</b>
<b>UNIT – II</b>					
<b>Objective 2</b>	<b>Create a Human Organs</b>				
Illustrate Face , Eyes , Nose Lips & Ears					
<b>Outcome 2</b>	<b>Learned about Human Parts</b> <b>Questions: To Illustration , To Draw</b>				<b>K2</b>
<b>UNIT – III</b>					
<b>Objective 3</b>	<b>Illustrating</b>				
Draw Hand , leg And Hair style					
<b>Outcome 3</b>	<b>Sketching Human Parts</b> <b>Questions: To Illustration , To Draw</b>				<b>K3</b>
<b>UNIT – IV</b>					
<b>Objective 4</b>	<b>Create different types of figure</b>				
Stick & block Figure , straight Figure & fashion figure (Children , men, womens)					
<b>Outcome 4</b>	<b>Knowing about various figure types</b> <b>Questions: To Illustration , To Draw</b>				<b>K4</b>
<b>UNIT - V</b>					
<b>Objective 5</b>	<b>Create various types in Ornaments</b>				
Ornaments and accessories					
<b>Outcome 5</b>	<b>Learned about concept of accessories</b> <b>Questions: To Illustration, To Draw</b>				<b>K5</b>
<b>Reference &amp; Text Books</b>					
1.	Patrik John Ireland Batsford Ltd; edition1982, Fashion design drawing and presentation				
2.	Caroline Tatham, Julian Seaman Barron's Educational Series;2011, Fashion design drawing course				
3.	By Kathryn Hagen 2004 by Prentice Hall, Fashion illustration for designers				
4.	By Bina Abling 2000 by Prentice Hall, Fashion Rendering with Color				
5.	Alexandra Suhner Pepin Press2012, Technical Drawing for Fashion Design Vol. 2: Garment Source Book (Fashion Textiles)				

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1.	<a href="http://www.rituberi.com">www.rituberi.com</a>
2.	<a href="http://www.manishmalhotra.in">www.manishmalhotra.in</a>
3.	<a href="http://www.rohitbal.com">www.rohitbal.com</a>
4.	<a href="http://www.benetton.com">www.benetton.com</a>
5.	<a href="http://www.leecooper.com">www.leecooper.com</a>

SEMESTER - II					
Course code 81626	BSC FAM CC	Basic Pattern Making and Construction	P	Credits:- 4	Hours:-5
UNIT - I					
Objectives :1	To draft pattern construction for basic sleeves				
<b>SLEEVE</b>					
1. Plain 2. Puff sleeve at top 3. Raglan sleeve 4. Kimono sleeve					
Outcome 1	Stitched and constructed the sleeves Question: Measure, Draft, Cut, Construct			K1	
UNIT – II					
Objectives :2	To draft pattern construction for basic collars				
<b>COLLAR</b>					
1. Shirt collar 2. Peter pan collar 3. Stand collar 4. Shawl collar					
Outcome 2	Stitched and constructed the collars Question: Measure, Draft, Cut, Construct			K3	
UNIT - III					
Objectives :3	To draft pattern construction for basic yokes				
<b>YOKE</b>					
1. Plain 2. Partial					
Outcome 3	Stitched and constructed the yokes Question: Measure, Draft, Cut, Construct			K4	
UNIT-IV					
Objectives :4	To draft pattern construction for basic pockets				
<b>POCKET</b>					
1. Patch pocket 2. Bound pocket 3. Kangaroo pocket					
Outcome 4	Stitched and constructed the pockets Question: Measure, Draft, Cut, Construct			K6	
UNIT - V					
Objectives :5	To draft pattern construction for basic placket				
<b>PLACKET</b>					
1. Tailor's placket (used button) 2. Open placket (used hook) 3. Zipper placket (used zip)					
Outcome 5	Stitched and constructed the plackets Question: Measure, Draft, Cut, Construct			K2	

**Reference & TextBooks**

1. Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai(1986)
2. Pattern Grading for women's clothing, The technology of sizing –Gerry cooklin, Blackwell Science Ltd (1990)
3. Zarapker system of cutting –zarapker. K. r., Navneet publications Ltd.
4. **Mary Mathews, “Practical clothing construction”, Printed by Bhattarams, Copyright 1995**
5. “Cutting and tailoring course” Gayatri Verma and Kapil Dev, Computech Publications,2009.

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2. [http://brittlebooks.library.illinois.edu/brittlebooks\\_open/Books2009-](http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-)
3. [http://cbseacademic.in/web\\_material/doc/fashion\\_studies/3\\_XII\\_Text\\_Book.p](http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p)
4. [http://buc.edu.in/sde\\_book/fashion\\_design.pdf](http://buc.edu.in/sde_book/fashion_design.pdf)

<b>SEMESTER -III</b>					
<b>Course Code</b> 81633	<b>BSCFAM</b> CC	<b>Apparel Machinery and</b> <b>Equipments</b>	<b>T</b>	<b>Credits:3</b>	<b>Hours:3</b>
<b>UNIT-I</b>					
<b>Objective I</b>	<b>Impart knowledge of sewing machine types and care &amp; maintenance</b>				
Sewing Machineries- Classification of sewing machines, parts functions of single Needle machine, over lock machine, button Hole making machine, button fixing machine, blind stitching Machine, fabric examining machines. Special attachments, care and maintenance, Common problems and remedies					
<b>Outcome1</b>	<b>To Gain Knowledge about sewing machine types, maintenance, common problem &amp; remedies</b> <b>Questions: What, Explain, Define.</b>				<b>K3</b>
<b>UNIT-II</b>					
<b>Objective2</b>	<b>To learn about the stitching mechanism</b>				
Stitching mechanism- Needles, bobbin and bobbin case, bobbin winding, loops and loop Spreader, upper and lower threading, auxiliary hooks, throat plates, take-ups, tension discs- upper and lower thread tension, stitching auxiliaries, pressure foot.					
<b>Outcome2</b>	<b>Understanding the mechanism of sewing</b> <b>Questions: What, About, Classify.</b>				<b>K2</b>
<b>UNIT-III</b>					
<b>Objective3</b>	<b>To learn about cutting machines, tools and spreading methods</b>				
Cutting technology – definition, function, scope. Cutting equipment and tools, cutting machines, Straight knife Cutting Machines. Round knife Cutting Machines. rotary cutting machine, band knife cutting machine, die cutters. Types of spread and its quality, spreading equipment and tools used for spreading, spreading methods					
<b>Outcome3</b>	<b>To Gain Knowledge about cutting machines, tools and spreading methods</b> <b>Questions: Define, Explain, About</b>				<b>K1</b>
<b>UNIT-IV</b>					
<b>Objective4</b>	<b>To learn the concepts of marking methods and marker planning</b>				
Marking methods, positioning marking types of markers, efficiency of a marker plan, requirements of marker planning. Pressing Equipments – purpose, pressing equipments and methods – iron, steam press, steam air finisher, special types – pleating, permanent press.					
<b>Outcome4</b>	<b>Understand the concept of marking methods and marker planning</b> <b>Questions: Explain, What, About.</b>				<b>K4</b>
<b>UNIT-V</b>					
<b>Objective5</b>	<b>To know about fusing and pressing technology &amp; Trims &amp; accessories</b>				
Fusing: Means-equipment and Methods- Pressing: - Means- Equipment's and methods- Packing - Method-Components of packing- Trims and accessories.					
<b>Outcome5</b>	<b>Understand the equipment's and methods of pressing &amp; fusing</b> <b>Questions: explain, what, List Out.</b>				<b>K4</b>

<b>Reference &amp; Text Books</b>	
1.	Jacob Soliner “Apparel manufacturing hand book”
2.	Shaeffer Clair :Sewing for Apparel Industry” Prentice Hall, New Jersey 2001.
3.	Besty Hosegood (2006), The complete book of sewing, Dorling Kindersley Ltd.,London. Thomas Anna Jacob, “The art of sewing:, USB publishers New Delhi,1994.
4.	The Technology of Clothing manufacture, Harold Carr abd Barbara Catham,Blackwell Science(1994)
5.	Chris Jefferys (2004), 101 Essential Tip- Basic Sewing, D.K. Publishing

<b>Related Online Contents [MOOC,SWAYAM, NPTEL, Websitesetc.]</b>	
1.	<a href="https://sewguide.com/types-of-sewing-machines/">https://sewguide.com/types-of-sewing-machines/</a>
2.	<a href="https://textilelearner.net/sewing-machine-feed-mechanism/">https://textilelearner.net/sewing-machine-feed-mechanism/</a>
3.	<a href="https://cosmatechnology.com/news/the-spreading-and-cutting-department-in-garment-industry-48">https://cosmatechnology.com/news/the-spreading-and-cutting-department-in-garment-industry-48</a>
4.	<a href="https://texeducation.wordpress.com/2013/12/24/marker-planning/">https://texeducation.wordpress.com/2013/12/24/marker-planning/</a>
5.	<a href="https://garmentsmerchandising.com/fusing-process-applied-apparel-industry/">https://garmentsmerchandising.com/fusing-process-applied-apparel-industry/</a>

SEMESTER -III					
Course Code 81634	BSC FAM CC	Textile Coloring and Finishes	T	Credits:3	Hours:3
UNIT -I					
<b>Objective I</b>	<b>Impart knowledge in preparatory process.</b>				
Aim of Preparatory process. Sequence of chemical processing. Singeing- Objects and Types of Singeing. Gas singeing machine – Working process. Desizing- Objects and Methods- Rot Steeping, Acid Desizing and Enzymatic Desizing.					
<b>Outcome1</b>	<b>Understanding the preparatory process concept.</b> <b>Questions: What, Explain, Define.</b>				<b>K3</b>
UNIT -II					
<b>Objective2</b>	<b>To learn the objects, mechanism of scouring and bleaching.</b>				
Scouring – Objects, Mechanism of Scouring. Scouring Agents, Scouring Efficiency test- Drop test. Bleaching- Objects and Types of Bleaching- Hypochlorite Bleaching and Hydrogen peroxide Bleaching. Mercerization process.					
<b>Outcome2</b>	<b>Understanding the objects and mechanism of scouring and bleaching.</b> <b>Questions: What, Explain, Define.</b>				<b>K2</b>
UNIT -III					
<b>Objective3</b>	<b>To learn about the dyeing procedures, dyes types and dyeing machines</b>				
Dyeing – Introduction. Classification of Dyes- Natural dyes and Chemical Dyes- direct, Acid, Basic, Reactive, Vat, Sulphur, Disperse and Azoic Dyes. Stages of Dyeing- fiber, Yarn, Fabric and Garment Dyeing. Dyeing Machines-Winch, Jigger and Soft flow.					
<b>Outcome3</b>	<b>Understanding the concept of coloring process.</b> <b>Questions: What, Explain, Define.</b>				<b>K1</b>
UNIT -IV					
<b>Objective4</b>	<b>To learn about printing process and its types</b>				
Printing- Introduction. Difference between Dyeing and Printing. Styles of Printing- Direct, Discharge and Resist. Steps of Printing. Types of Printing- Screen, Rotary, Block, Batik, Transfer, Digital Printing. Ingredients used for printing paste					
<b>Outcome4</b>	<b>Understand the techniques and types of printing process.</b> <b>Questions: What, Explain, Define.</b>				<b>K4</b>
UNIT -V					
<b>Objective5</b>	<b>To learn about finishing and its types</b>				
Finishing- Introduction and Advantages. Types of finish. Aesthetic and Functional finishes- Softening, Stiffening, Calendaring, Heat setting, Anti-microbial finish, Soil release finish, flame retardant finish, Crease resistant finish, Water repellent finish and insect repellent finish					
<b>Outcome5</b>	<b>Understand the concept of finishing process and types of finishing</b> <b>Questions: What, Explain, Define.</b>				<b>K4</b>
Reference & Text Books					
1.	Technology of textile processing (vol 1-2), Sevak Publications – V.A.Shenai				
2.	CentPrayagR.S.(1983),TheBleachingandDyeingofCottonMaterial,Weaver’sService Cent.				
3.	Textile Coloration and Finishing, Carolina AcademicPress, Durham, North Carolina (1996) - Warren.S.Perkins,				
4.	C.W Pellow, Dyes and dyeing , Abhishek Publications, 2000..				
5.	Technology of printing Prayag				

<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1.	<a href="https://www.textileschool.com/343/fabric-wet-processing-techniques/">https://www.textileschool.com/343/fabric-wet-processing-techniques/</a>
2.	<a href="https://textileengineering.net/textile-wet-processing-stages-flowchart-and-importance/">https://textileengineering.net/textile-wet-processing-stages-flowchart-and-importance/</a>
3.	<a href="https://www.textileblog.com/scouring-process-of-cotton-fabric/">https://www.textileblog.com/scouring-process-of-cotton-fabric/</a>
4.	<a href="https://www.britannica.com/topic/textile/Printing">https://www.britannica.com/topic/textile/Printing</a>
5.	<a href="http://textileapex.com/what-is-textile-finishing-different-types-of-textile-finishing/">http://textileapex.com/what-is-textile-finishing-different-types-of-textile-finishing/</a>

SEMESTER - III					
Course Code 81635	BSC FAM CC	Children's Apparel	P	Credits:4	Hours:4
<b>UNIT - I</b>					
<b>Objective I</b>	<b>Create a garment with design for kids</b>				
Bib- Variation in outline shape Panty-plain or plastic lined panty					
<b>Outcome 1</b>	<b>Understand about basic garment designs for kids</b> <b>Questions: To create, To design, To Apply, To stitch</b>				<b>K1</b>
<b>UNIT – II</b>					
<b>Objective 2</b>	<b>Create a garment with design for kids</b>				
Jabla- without sleeve, front open (or) back opens Baba suit- knicker with chest piece attached					
<b>Outcome 2</b>	<b>Understand about basic garment designs for kids</b> <b>Questions: To create, To design, To Apply, To stitch</b>				<b>K2</b>
<b>UNIT – III</b>					
<b>Objective 3</b>	<b>Create a garment with design for kids</b>				
A-Line frock - arm hole finished with facing/petticoat with gathered waist, fullness at neck line					
<b>Outcome 3</b>	<b>Understand about basic garment designs for kids</b> <b>Questions: To create, to design, To Apply, To stitch</b>				<b>K3</b>
<b>UNIT – IV</b>					
<b>Objective 4</b>	<b>Create a garment with design for kids</b>				
Yoke frock- yoke at chest line, with open, puff sleeve Knickers- elastic waist, side pockets.					
<b>Outcome 4</b>	<b>Understand about basic garment designs for kids</b> <b>Questions: To create, To design, To Apply, To stitch</b>				<b>K4</b>
<b>UNIT – V</b>					
<b>Objective 5</b>	<b>Create a garment with design for kids</b>				
Shirt- open collar, with pocket					
<b>Outcome 5</b>	<b>Understand about basic garment designs for kids</b> <b>Questions: To create, To design, To Apply, To stitch</b>				<b>K5</b>
<b>Reference &amp; Text Books</b>					
1.	Gayatri Verma and Kapil Dev, "Cutting and tailoring course", Computech Publications, 2009.				
2.	Shri K.R. Zarpkar, "System of cutting", Navneet Publications (INDIA) limited, 2010.				
3.	Mary Mathews, "Practical clothing construction", Printed by Bhattarams, Copyright 1995				
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>					
1.	<a href="http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf">http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf</a>				
2.	<a href="http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-">http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-</a>				
3.	<a href="http://buc.edu.in/sde_book/fashion_design.pdf">http://buc.edu.in/sde_book/fashion_design.pdf</a>				
4.	<a href="http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p">http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p</a>				

SEMESTER - III					
Course Code 81636	BSC FAM CC	Fashion Illustration - II	P	Credits:4	Hours:4
UNIT - I					
<b>Objective I</b>	Illustrate garment designs for the elements of design				
Line, Color, Texture, Shape, Size					
<b>Outcome 1</b>	<b>Learned about elements of design</b> <b>Questions: To Illustration , To Draw</b>				<b>K1</b>
UNIT – II					
<b>Objective 2</b>	Illustrate garment designs for the principles of design				
Balance in dress, harmony in dress, emphasis in dress, proportion in dress, rhythm in dress					
<b>Outcome 2</b>	<b>Learned about principles of design</b> <b>Questions: To Illustration , To Draw</b>				<b>K2</b>
UNIT – III					
<b>Objective 3</b>	<b>Illustrate the color harmony in dress design</b>				
Monochromatic color harmony, Analogous color harmony, Complimentary color harmony,					
<b>Outcome 3</b>	<b>Learned about principles of design</b> <b>Questions: To Illustration , To Draw</b>				<b>K3</b>
UNIT – IV					
<b>Objective 4</b>	<b>Illustrate the color harmony in dress design</b>				
Double complementary color harmony, Split complementary color harmony, Triad color harmony					
<b>Outcome 4</b>	<b>Knowing about various figure types</b> <b>Questions: To Illustration , To Draw</b>				<b>K4</b>
UNIT - V					
<b>Objective 5</b>	<b>Application of color and principles of design indress</b>				
Harmony through color, Emphasis through color, Proportion through color, Rhythm through colour, Balance through color					
<b>Outcome 5</b>	<b>Learned about concept of accessories</b> <b>Questions: To Illustration, To Draw</b>				<b>K5</b>
Reference & Text Books					
1.	Patrik John Ireland Batsford Ltd; edition1982, Fashion design drawing and presentation				
2.	Caroline Tatham, Julian Seaman Barron's Educational Series;2011, Fashion design drawing course				
3.	By Kathryn Hagen 2004 by PrenticeHall, Fashion illustration for designers				
4.	By BinaAbling 2000 by PrenticeHall, Fashion Rendering with Color				
5.	Alexandra Suhner Pepin Press2012, Technical Drawing for Fashion Design Vol. 2: Garment Source Book (Fashion Textiles)				

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4.	<a href="http://www.benetton.com">www.benetton.com</a>
5.	<a href="http://www.leecooper.com">www.leecooper.com</a>

SEMESTER - III					
Course Code 81637	BSC FAM Allied	Computer Aided Designing- I	P	Credits:2	Hours:4
<b>UNIT - I</b>					
<b>Objective I</b>	<b>Create The Following Designs</b>				
	<ul style="list-style-type: none"> <li>• Motifs / small designs.</li> <li>• Kerchiefs Design</li> <li>• Neck lines</li> <li>• Chest prints for T-shirts and its color separation</li> </ul>				
<b>Outcome 1</b>	<b>Learned skills about computerized designing.</b>				<b>K1</b>
	<b>Questions: To create, To design, To Apply</b>				
<b>UNIT – II</b>					
<b>Objective 2</b>	<b>Create children’s garments</b>				
	<ul style="list-style-type: none"> <li>• Bib – different styles</li> <li>• Jabla- different styles</li> <li>• Frocks different styles</li> </ul>				
<b>Outcome 2</b>	<b>Understand about the children’s garment</b>				<b>K2</b>
	<b>Questions: To create, To design, To Apply</b>				
<b>UNIT – III</b>					
<b>Objective 3</b>	<b>Create women’s garments</b>				
	<ul style="list-style-type: none"> <li>• Chudidhar- different styles</li> <li>• Full gowns - different styles</li> <li>• Middi &amp; Tops - different styles</li> <li>• Princess line Dress- different styles</li> <li>• House coats</li> <li>• Aprons &amp; Nighties.</li> </ul>				
<b>Outcome 3</b>	<b>To understand about the women’s garments</b>				<b>K3</b>
	<b>Questions: To create, To design, To Apply</b>				
<b>UNIT – IV</b>					
<b>Objective 4</b>	<b>Create men’s garments</b>				
	<ul style="list-style-type: none"> <li>• S B vest</li> <li>• T- Shirt - different styles</li> <li>• Shirts - different styles</li> <li>• Kurta pyjama - different styles</li> </ul>				
<b>Outcome 4</b>	<b>Understand about the Men’s garments</b>				<b>K4</b>
	<b>Questions: To create, To design, To Apply</b>				
<b>UNIT - V</b>					
<b>Objective 5</b>	<b>Create logo and accessories design</b>				
	<ul style="list-style-type: none"> <li>• Create logo &amp; label for branded companies.</li> <li>• Create design for Hand bag, Hat and Footwear</li> </ul>				
<b>Outcome 5</b>	<b>Develop logo and label for industries</b>				<b>K5</b>
	<b>Questions: To create, To design, To Apply</b>				
<b>Reference &amp; Text Books</b>					
1.	<b>Renee Weiss chase, “CAD for fashion design”,(1997)</b>				
2.	<b>Zeid, “CAD/CAM theory and practice”, (1991)</b>				
3.	<b>Sandra burke, “Fashion computing design techniques and CAD”, (2006)</b>				
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>					
1.	<b><a href="https://www.glamsen.se/CadTools.htm">https://www.glamsen.se/CadTools.htm</a></b>				
2.	<b><a href="https://textilelearner.net/list-of-cad-cam-software/">https://textilelearner.net/list-of-cad-cam-software/</a></b>				
3.	<b><a href="http://www.coreldraw.com/en/product/corel-cad">www.coreldraw.com/en/product/corel-cad</a></b>				

SEMESTER -IV				
Course code 81643	BSC FAM CC	Historic Costumes and Textiles of India	T	Credits:-4 Hours:-4
<b>UNIT -I</b>				
<b>Objectives:1</b>	<b>To gain knowledge about the dyed, printed textiles and woven textiles of India</b>			
Origin of Costume, Growth of Dress out of painting, cutting etc. Study of dyed and printed textiles of India –Bhandhani, patola , ikkat, kalamkari- in all the above types and techniques used. Study of woven textiles of India –baluchar, Kashmir shawls, pochampalli , silk sarees of Kancheepuram.				
<b>Outcome1</b>	<b>Understanding the types of costumes used in India</b>		<b>K1</b>	
<b>Questions:-what, Explain, Describe, Define</b>				
<b>UNIT-II</b>				
<b>Objectives:2</b>	<b>Impart knowledge on traditional costumes of different states in India</b>			
Costumes of India – Traditional Costume of different States of India Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Assam, Orrisa, Bihar, Mizoram, Nagaland, and West Bengal				
<b>Outcome2</b>	<b>To understand the concept of traditional costumes used by Indian states</b>		<b>K3</b>	
<b>Questions:-what, Explain, Describe, Define</b>				
<b>UNIT-III</b>				
<b>Objectives:3</b>	<b>To learn about the traditional costumes of North India</b>			
Traditional Costume of different States of India; Maharastra, Rajasthan, Haryana, Himachal Pradesh, Uttarpradesh, Jammu and Kashmir, Gujarat, Madhyapradesh.				
<b>Outcome3</b>	<b>Understanding the traditional costumes of North Indian people</b>		<b>K4</b>	
<b>Questions:-what, Explain, Describe, Define</b>				
<b>UNIT-IV</b>				
<b>Objectives:4</b>	<b>To learn about the Indian jewelry</b>			
Indian Jewellery – jewelleries used in the period of Indus valley civilization, Mauryan period, Gupta Period, the Pallava and Chola Period, Symbolic Jewellery of South India, Mughal period. Temple Jewellery of South India, Tribal jewellery				
<b>Outcome4</b>	<b>Understanding about Indian jewelries.</b>		<b>K3,K6</b>	
<b>Questions:-what, Explain, Describe, Define</b>				
<b>UNIT-V</b>				
<b>Objectives:5</b>	<b>To know about traditional embroideries</b>			
Traditional embroideries of India – Origin, Embroidery stitches used –embroidery of Kashmir, Phulkari of Punjab, Gujarat – Kutch and Kathiawar, embroidery of Rajasthan, Kasuti of Karnataka, Chickenwork of Lucknow, Kantha of Bengal – in all the above – types and colours of fabric /thread.				
<b>Outcome5</b>	<b>Understanding the verities of traditional embroideries in India</b>		<b>K2</b>	
<b>Questions:-what, Explain, Describe, Define</b>				

<b>Reference and Text Books</b>	
1.	Indian Costume –G.H Ghosrye, Popular books Pvt Ltd
2.	The costumes and textiles of India – Jamila Brij Bhushan, D B Taraporevala Sons & Co, Bombay (1958).
3.	History of Costumes in the West - Francois Boucher
4.	Costumes of India –Dorris Flyn, Oxford and IBH Publishing Co ,Delhi (1971).
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websitesetc.]</b>	
1.	<a href="https://study.com/academy/lesson/costume-design-definition-history-process">https://study.com/academy/lesson/costume-design-definition-history-process</a>
2.	<a href="https://www.britannica.com/place/India/Clothing">https://www.britannica.com/place/India/Clothing</a>
3.	<a href="https://www.perrian.com/blog/the-history-of-indian-jewellery">https://www.perrian.com/blog/the-history-of-indian-jewellery</a>
4.	<a href="https://isdi.in/blog/top-10-traditional-embroideries-of-india/">https://isdi.in/blog/top-10-traditional-embroideries-of-india/</a>

SEMESTER -IV					
<b>Course Code</b> 81644	<b>BSC FAM</b> CC	<b>Apparel and Quality Control</b>	<b>T</b>	<b>Credits:4</b>	<b>Hours:4</b>
UNIT -I					
<b>Objective1</b>	<b>To understand the basics of apparel quality.</b>				
Define - Quality, QC, QA, Importance of quality and quality control. Raw material inspection- fabric inspection-4 points system-10 points system-in process inspection-final inspection -no inspection-100% inspection-statistical sampling-AQL standards and preparing specifications.					
<b>Outcome1</b>	<b>Student will be able to Outline quality and its parameters.</b>				<b>K1</b>
<b>Questions: Define, Objects, Analyze, Explain.</b>					
UNIT -II					
<b>Objective2</b>	<b>To learn and understand about defects of textile materials</b>				
Fabric defects - pre sewing defects - sewing defects - post sewing defects-causes & remedies. Minor and Major defects. Seven Tools of Quality [Q-7] – Check sheet –Histogram–Pare to diagram–Scatter diagram –Fish bone diagram –Flowchart–Control chart.					
<b>Outcome2</b>	<b>Students will be able to Analyse various defects of textile materials</b>				<b>K2</b>
<b>Question; Define, objects, classify, Explain.</b>					
UNIT -III					
<b>Objective3</b>	<b>To enable the students to know the quality standards.</b>				
ISO Standards: Need for ISO 9000 - ISO 9001-2008 Quality System - Elements, Documentation, Quality Auditing-QS9000-ISO14000-Concepts, Requirements and Benefits-TQM Implementation in manufacturing and service sectors. Ecotex concepts.					
<b>Outcome3</b>	<b>To learn Generalize the concept of ISO implementation</b>				<b>K3</b>
<b>Question; Define, classify, Analyse, Apply.</b>					
UNIT -IV					
<b>Objective4</b>	<b>To learn about testing methods for Quality inspection</b>				
Testing: Accessoriestesting- sewing threads, button, lining, interlining, hook, laces, elastics & packing materials, Testing of dimensional stability-bow-skewness-shrinkage.					
<b>Outcome4</b>	<b>Understand and Predict the quality of raw materials through testing</b>				<b>K4</b>
<b>Question; Define, classify, Analyse, Explain.</b>					
UNIT -V					
<b>Objective5</b>	<b>To facilitates the understanding of Apparel quality assurance principles and process.</b>				
<b>Apparel Quality Assurance: Apparel Quality Assurance in Packing–importance–types. Warehousing–scope&amp;importance – Shipping procedure.</b>					
<b>Outcome5</b>	<b>Summarize the functions of apparel quality assurance</b>				<b>K5</b>
<b>Question; Define, classify, Analyse, Explain</b>					

**Reference & Text Books**

1.	Wiley Eastern,(1990)“Total quality management –a practical approach”,
2.	Jacob Solinger., “Apparel Manufacturing Hand book”, Van Nostr and Reinhold Company(1980)
3.	RuthEC,“ Apparel manufacturing and sewing product analysis”,
4.	Pradipmetha,Satishk.Bhardwaj, “Managing quality in the apparel industries” ,NIFT, Newage international(p)ltdpublishers,ND
5.	PradipVMetha,(1992) “Introduction to quality control”, ASCQqualitypress.

**Related Online Contents[MOOC,SWAYAM, NPTEL, Websitesetc.]**

1.	<a href="https://www.fibre2fashion.com/industry-article/6333/quality-assurance-in-garments">https://www.fibre2fashion.com/industry-article/6333/quality-assurance-in-garments</a>
2.	<a href="https://techpacker.com/blog/manufacturing/all-about-quality-assurance-control/">https://techpacker.com/blog/manufacturing/all-about-quality-assurance-control/</a>
3.	<a href="https://www.onlineclothingstudy.com/2021/07/quality-control-systems-for-quality.">https://www.onlineclothingstudy.com/2021/07/quality-control-systems-for-quality.</a>
4.	<a href="http://textilefashionstudy.com">http://textilefashionstudy.com</a>
5.	<a href="https://mytextilenotes.blogspot.com/2007/12/simple-quality-assurance-in-apparel.">https://mytextilenotes.blogspot.com/2007/12/simple-quality-assurance-in-apparel.</a>

SEMESTER -IV					
<b>Course Code</b> 81645	<b>BSC FAM</b> CC	<b>Textile Testing</b>	<b>P</b>	<b>Credits:4</b>	<b>Hours:4</b>
<b>UNIT -I</b>					
<b>Objective I</b>	<b>To teach how to identify the fibers and determine the yarn count.</b>				
Introduction about textile testing. Identification of Textile Fiber, Determination of yarn count using wrap Reel and beesley balance.					
<b>Outcome1</b>	<b>Understand the concept of yarn counted termination and calculation. Question; Define, Analyze, Apply.</b>				<b>K3</b>
<b>UNIT -II</b>					
<b>Objective2</b>	<b>To learn the yarn strength, twist and crimp.</b>				
Determination of Lea strength using Lea strength tester. Determination of Single yarn twist and Crimp test.					
<b>Outcome2</b>	<b>To enable the students, to understand the yarn strength, twist and crimp. Question; Define, Analyze, calculate.</b>				<b>K2</b>
<b>UNIT -III</b>					
<b>Objective3</b>	<b>To improve the knowledge in fabric strength test</b>				
Determination of fabric thickness and Determination of fabric bursting strength.					
<b>Outcome3</b>	<b>Understand and analyses the fabric strength Question; Analyze, Apply.</b>				<b>K1</b>
<b>UNIT -IV</b>					
<b>Objective4</b>	<b>To understand the knitted fabric and woven fabric Analyses.</b>				
Determination of fabric shrinkage, tearing strength and crease recovery of the given fabric. Determination of fabric GSM, Loop length, CPI, WPI. Determination of fabric cover factor, EPI, PPI.					
<b>Outcome4</b>	<b>To enable the students to understand the fabric weight calculations Question; Define, Analyze, Calculate.</b>				<b>K4</b>
<b>UNIT -V</b>					
<b>Objective5</b>	<b>To learn the procedure and methods of color fastness test.</b>				
Determination of Color fastness of the given fabric by launder meter. Determination of Color fastness of the given fabric by Crock meter. Determination of Color fastness of the given fabric by Persiprometer.					
<b>Outcome5</b>	<b>To determine the different types of color fastness. Question; Determine, Apply.</b>				<b>K5</b>
<b>Reference &amp; Text Books</b>					
1.	Booth JE, (1970), Principles of Textile Testing, Hoy Books, London.				
2.	Quality control and testing management by Dr. V.K. Kothari.				
3.	Angappan Pand Gopalakrishnan R, Textile Testing, SS M Institute of Textile Technology, Komara Palayam.				
4.	Objective evaluation of fabrics, Styios G, John Wiley & Sons USA				
5.	Physical testing of textiles by B.P. Saville				

<b>Related Online Contents [MOOC,SWAYAM, NPTEL, Websitesetc.]</b>	
1.	<a href="https://textilelearner.net/what-is-textile-testing">https://textilelearner.net/what-is-textile-testing</a>
2.	<a href="https://textilestudycenter.com/category/yarn-engineering/">https://textilestudycenter.com/category/yarn-engineering/</a>
3.	<a href="https://www.onlinetextileacademy.com/category/wet-processing">https://www.onlinetextileacademy.com/category/wet-processing</a>
4.	<a href="https://textilevaluechain.in/in-depth-analysis/articles/textile-articles/textile-testing-and-quality-control/">https://textilevaluechain.in/in-depth-analysis/articles/textile-articles/textile-testing-and-quality-control/</a>
5.	<a href="https://archive.nptel.ac.in/courses/116/102/116102029/">https://archive.nptel.ac.in/courses/116/102/116102029/</a>

SEMESTER - IV					
Course Code 81646	BSC FAM CC	Men's Apparel	P	Credits:4	Hours:4
UNIT - I					
Objective I	To draft a pattern and construct the garment				
. S.B.Vest – button attached, sleeveless					
Outcome 1	Pattern drafted and Stitched the garment with design Questions: To draft, To design, To Apply, To stitch				K1
UNIT – II					
Objective 2	To draft a pattern and construct the garment				
Slack shirt – full open, shirt collar, patch pocket					
Outcome 2	Pattern drafted and Stitched the garment with design Questions: To draft, To design, To Apply, To stitch				K2
UNIT – III					
Objective 3	To draft a pattern and construct the garment				
Nehru kurta –stand collar, half open					
Outcome 3	Pattern drafted and Stitched the garment with design Questions: To draft, To design, To Apply, To stitch				K3
UNIT – IV					
Objective 4	To draft a pattern and construct the garment				
Bermuda's – Side pocket					
Outcome 4	Pattern drafted and Stitched the garment with design Questions: To draft, To design, To Apply, To stitch				K4
UNIT - V					
Objective 5	To draft a pattern and construct the garment				
Pyjama- Elastic /Tape attached at waist.					
Outcome 5	Pattern drafted and Stitched the garment with design Questions: To draft, To design, To Apply, To stitch				K5
Reference & Text Books					
1.	Gayatri Verma and Kapil Dev, “Cutting and tailoring course”, Computech Publications, 2009.				
2.	Shri K.R. Zarpkar, “System of cutting”, Navneet Publications (INDIA) limited, 2010.				
3.	Mary Mathews, “Practical clothing construction”, Printed by Bhattarams, Copyright 1995				

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1.	<a href="http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf">http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf</a>
2.	<a href="http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-">http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-</a>
3.	<a href="http://buc.edu.in/sde_book/fashion_design.pdf">http://buc.edu.in/sde_book/fashion_design.pdf</a>

SEMESTER - IV					
Course Code 81647	Allied	Art and Craft	P	Credits:2	Hours:4
<b>UNIT - I</b>					
<b>Objective I</b>	To draw a basic outline in drawing				
To draw a basic outline in drawing Practice drawing basic lines and curves, create a sense of depth by shading in a shape, Draw a butterfly and chair with shading					
<b>Outcome 1</b>	Learned basic outlines in drawing How, what, to draw, to shade				<b>K1</b>
<b>UNIT – II</b>					
<b>Objective 2</b>	To create a different color combination in painting				
Use water color for creative designs and follow the combination 1.Blue and yellow 2.Blue and grey 3.Pink and purple 4.Violet and green 5.Yellow and orange					
<b>Outcome 2</b>	Learned about color combinations to design, to mix, to combine and create				<b>K2</b>
<b>UNIT – III</b>					
<b>Objective 3</b>	To make a hangings and crafts from paper				
1. Wall hanging 2. Flowers 3. Fruit slice bookmarks					
<b>Outcome 3</b>	Skilled about paper used techniques to cut, to make, to finish				<b>K3</b>
<b>UNIT – IV</b>					
<b>Objective 4</b>	Enhance your fabric designs through block or stencil printing				
1. Make a design for printing 2. Prepare a Blocks and stencil boards 3. Mix pigments and paint 4. Then make a print on your fabric					
<b>Outcome 4</b>	Learned about creating blocks and stencil to design, to cut, to print				<b>K4</b>
<b>UNIT - V</b>					
<b>Objective 5</b>	To stitch a mini garments and accessories by hand				
Use hand needle and sewing thread for making garments and accessories 1. Kids frock 2. Hand bag					
<b>Outcome 5</b>	Learned about hand sewing techniques to cut, to stitch				<b>K5</b>
Reference & Text Books					
1.	“The Art of Drawing”, Willy pogany, 2000-11-11				
2.	2. “Fabric Printing at Home”, 15 November 2015, Julie Booth				
3.	3. Printing for Everyone”, Gertrud Derendinger, 1960				

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1.	. <a href="https://www.sliceproducts.com/pages/things-to-make-out-of-paper#beads">https://www.sliceproducts.com/pages/things-to-make-out-of-paper#beads</a>
2.	. <a href="https://in.pinterest.com/malhimandeeep88/block-printing/">https://in.pinterest.com/malhimandeeep88/block-printing/</a>
3.	. <a href="https://www.textileblog.com/stencil-printing-definition-process-and-uses/">https://www.textileblog.com/stencil-printing-definition-process-and-uses/</a>
4.	. <a href="https://www.youtube.com/@thevirtualinstructor">https://www.youtube.com/@thevirtualinstructor</a>

SEMESTER -V					
Course Code 81651	BSCFAM CC	Garment Costing	T	Credits:3	Hours:4
<b>UNIT-I</b>					
<b>Objective I</b>	<b>To learn about Costing and types of estimation.</b>				
<b>Introduction of costing</b> - Estimating, aims of estimating - costing, aims of costing - difference between-estimating and costing - types of estimates.					
<b>Outcome1</b>	<b>Students should know the preparation of Estimation.</b> <b>Questions: What, About, Difference, Analyse</b>				<b>K1</b>
<b>UNIT-II</b>					
<b>Objective2</b>	<b>To learn the cost of elements.</b>				
<b>Elements of cost:</b> Direct material Cost-Indirect cost and Overhead - cost of product - different types of expenses - advertisement cost –Labor cost – pricing method.					
<b>Outcome2</b>	<b>Understanding about various elements of cost.</b> <b>Questions: What, About, List out.</b>				<b>K2</b>
<b>UNIT-III</b>					
<b>Objective3</b>	<b>To teach about the material cost.</b>				
<b>Material Cost-</b> Estimation of yarn, knitted fabric, dyeing, printing & finishing. Cutting cost - estimation for cutting, stitching, checking, and Finishing cost.					
<b>Outcome3</b>	<b>Understanding about various types of material cost.</b> <b>Questions: What, About, Define, Analyse.</b>				<b>K3</b>
<b>UNIT-IV</b>					
<b>Objective4</b>	<b>Students should understand the CMT cost.</b>				
<b>CMT:</b> CMT cost – labor cost – value added cost -Accessories cost shipping and insurance – INCO terms & their relationship with costing.					
<b>Outcome4</b>	<b>To understand the cost in garment industry.</b> <b>Questions: What, About, List out.</b>				<b>K4</b>
<b>UNIT-V</b>					
<b>Objective5</b>	<b>To study about costing for domestic products</b>				
<b>Garment costing sheet:</b> Estimation of factory cost for T-Shirts, children’s wear and women’s wear. Various factors to be considered in costing for domestic products & international products.					
<b>Outcome5</b>	<b>Studied about fabric and garment costing</b> <b>Question: How, estimate, Calculate.</b>				<b>K5</b>
<b>Reference &amp; Text Books</b>					
1.	T. Karthik, P. Ganesan and D. Gopalakrishnan by “Apparel Manufacturing Technology”				
2.	S.P.JainandKL.Narang,“CostAccounting”,KalyaniPublishers,NewDelhi.Edn.2005				
3.	R.S.N.PillaiandV.Bagavathi,“CostAccounting”,S.ChandandCompanyLtd.,New Delhi.Edn.2004.				
4.	DarlieKoshy, “Effective export marketing of Apparel”,Globalbusinesspress,1996.				
5.	Mike Easey, “Fashion marketing”–3rd.edition, BlackwellScience2009				

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

1.	<a href="https://techpacker.com/blog/design/everything-you-need-to-know-about-garment-costing-and-pricing/">https://techpacker.com/blog/design/everything-you-need-to-know-about-garment-costing-and-pricing/</a>
2.	<a href="https://www.scribd.com/document/514450810/Apparel-Costing-and-Documentation">https://www.scribd.com/document/514450810/Apparel-Costing-and-Documentation</a>
3.	<a href="https://intracen.org/sites/default/files/media/file/media_file/2022/08/18/the_garment_costing_guide.pdf">https://intracen.org/sites/default/files/media/file/media_file/2022/08/18/the_garment_costing_guide.pdf</a>
4.	<a href="https://textilelearner.net/elements-and-steps-involved-in-apparel-costing/">https://textilelearner.net/elements-and-steps-involved-in-apparel-costing/</a>

SEMESTER -V					
Course code 81652	BSCFAM CC	Fashion Merchandising And Marketing	T	Credits:-4	Hours:-5
<b>UNIT -I</b>					
<b>Objectives:1</b>	<b>To understand the basics in fashion marketing</b>				
<b>Fashion marketing:</b> Introduction to Marketing, fashion Marketing, Marketing environment. Marketing Function –Assembling, standardization and Grading and packaging, product planning And development. The fashion industry and new product development, Pricing policies and strategies for apparel products, methods of setting prices.					
<b>Outcome1</b>	<b>Understand the marketing environment</b> <b>Question: Meaning, classify, plan and develop, methods</b>			<b>K1</b>	
<b>UNIT– II</b>					
<b>Objectives:2</b>	<b>To learn about apparel marketing and advertising</b>				
<b>Advertising:</b> Fashion sales promotional program for apparel marketing, communication in promotion, Personal selling, and point of purchase. Fashion Advertising and preparation of advertising for apparel market, Advertising media used in apparel market, Apparel and Textile Trade shows And fairs, Advertising department and advertising agencies – structure and functions. Advertising Budget.					
<b>Outcome2</b>	<b>Learned about fashion advertising and trade shows</b> <b>Question: Prepare, advertise, function</b>			<b>K3</b>	
<b>UNIT-III</b>					
<b>Objectives:3</b>	<b>To study about introduction of merchandising.</b>				
<b>Merchandising:</b> Introduction, Meaning- Apparel Merchandising. Export merchandising and retail merchandising. Types of merchandiser - Functions of a merchandiser – Essential requisites of a good merchandiser– Vendor sourcing, evaluation and development– Global Sourcing– Vendor nomination by buyers–Reasons for vendor nomination.					
<b>Outcome3</b>	<b>Studied about merchandising, merchandiser and vendor</b> <b>Question: Meaning, types, functions, develop, reason</b>			<b>K4</b>	
<b>UNIT-IV</b>					
<b>Objectives:4</b>	<b>Describe the process flow in apparel industry</b>				
<b>Apparel Industry:</b> Process flow in apparel industry–Buyer sourcing and communication–Enquiry –Order confirmation- order review and its importance–Planning and programming: Master planning, Scheduling or route card –Factors for route card- programming for yarn, knitting, dyeing, stitching, sampling, accessories–Samples: Meaning and importance –Types of samples – Expedition of samples.					
<b>Outcome4</b>	<b>Analyzed the planning and programming</b> <b>Question: process flow, plan, factors, types, samples</b>			<b>K6</b>	

<b>UNIT-V</b>		
<b>Objectives:5</b>	<b>To Learn About Inspection and Its Types</b>	
<p><b>Inspection:</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</p>		
<b>Outcome5</b>	<b>Understand About Packing List and assortment Questions: Explain, Describe</b>	<b>K2</b>
<b>Reference &amp; Text Books</b>		
1.	Marketing-RSN Pillai and Bhagavathi, S Chand and Company Ltd, New Delhi, 1987.	
2.	Marketing management– DrBK Chatterjee Jaico, Juice publishing house, Bombay 1982.	
3.	Marketing Principles and methods– Philip CF and Duncon, Irwin Publications.	
4.	Marian H. Jernigan , Fashion Merchandising and Marketing, Macmillan(1990).	
5.	Fashion marketing–Mike Easey, Black well Science Ltd, 1995.	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1.	<a href="https://learn.org/articles/What_is_Fashion_Marketing_and_Merchandising.html">https://learn.org/articles/What_is_Fashion_Marketing_and_Merchandising.html</a>	
2.	<a href="https://www.encyclopedia.com/fashion/encyclopedias-almanacs-transcripts-and-maps/fashion-marketing-and-merchandising">https://www.encyclopedia.com/fashion/encyclopedias-almanacs-transcripts-and-maps/fashion-marketing-and-merchandising</a>	
3.	<a href="https://precollegeprograms.org/fashion/whats-the-difference-between-fashion-merchandising">https://precollegeprograms.org/fashion/whats-the-difference-between-fashion-merchandising</a>	
4.	<a href="https://textilelearner.net/fashion-merchandising-and-merchandiser/">https://textilelearner.net/fashion-merchandising-and-merchandiser/</a>	

SEMESTER –V					
Elective I – DSE 1					
Course code	BSCFAM	A. Visual Merchandising	T	Credits:-4	Hours:-6
<b>UNIT -I</b>					
<b>Objectives:1</b>	<b>To understand the role of visual merchandise</b>				
<b>Introduction to Visual Merchandising:</b> Visual merchandising and display; Purpose of visual merchandising; Store image; Target customers; Seasonal visual merchandise; Windows.					
<b>Outcome1</b>	<b>To know the role of visual merchandising in retail shops. Question: Meaning, plan and develop, methods</b>				<b>K1</b>
<b>UNIT– II</b>					
<b>Objectives:2</b>	<b>To learn about Display</b>				
<b>Display and Display Settings:</b> Types of display; Promotion vs. institutional display; Type of display setting Attention drawing devices: Color; Lighting; Line and composition; Scale; Contrast; Repetition; Humor; Surprise and shock.					
<b>Outcome2</b>	<b>To know about different types of displays. Question: Plan, Types, Analyse</b>				<b>K3</b>
<b>UNIT-III</b>					
<b>Objectives:3</b>	<b>To study about window settings.</b>				
<b>Store and Window Settings:</b> Exterior of the store; Window in store front design; Display window; Special windows.					
<b>Outcome3</b>	<b>To know about store planning, circulation plan and presentation of products. Question: Meaning, types, plan, develop, reason</b>				<b>K4</b>
<b>UNIT-IV</b>					
<b>Objectives:4</b>	<b>To learn about mannequin techniques.</b>				
<b>Mannequins :</b> Types of mannequins; Alternatives to mannequin; Dressing up of mannequin.					
<b>Outcome4</b>	<b>Understand and organizing the mannequins Question: process method, plan, factors, types,</b>				<b>K6</b>
<b>UNIT-V</b>					
<b>Objectives:5</b>	<b>To Learn About store promotion.</b>				
Merchandise Display: Planning a display, Visual Merchandiser in store promotion. Scheduling the promotion <sup>18</sup>					
<b>Outcome5</b>	<b>Understand About merchandise display Questions: Explain, Describe. Schedule.</b>				<b>K2</b>
<b>Reference &amp;Text Books</b>					
1.	Jeannette Jarnow, Dickerson, Inside the Fashion Business, Prentice hall, USA				
2.	Darlie Koshy, Effective export marketing of Apparel, Global business press, 1996.				
3.	Fashion –From concept to consumer – Gini Stephens Frings , 6th edition, prentice Hall (1999).				
4.	Inside the fashion business –Bennett, Coleman & o, Mumbai(1998).				
5.	Art and Fashion in clothing selection – Harriet T ,Mc Jimsey, The Iowa state university.				
<b>Related Online Contents[MOOC,SWAYAM,NPTEL,Websitesetc.]</b>					
1.	<a href="https://www.lst.ac/e-learning/visual-merchandising">https://www.lst.ac/e-learning/visual-merchandising</a>				
2.	<a href="https://www.academyofappliedarts.com/course-detail/visual-merchandising-online">https://www.academyofappliedarts.com/course-detail/visual-merchandising-online</a>				
3.	<a href="https://www.arts.ac.uk/subjects/fashion-business/short-courses/visual-merchandising/visual-merchandising-and-display-online-short-course-lcf">https://www.arts.ac.uk/subjects/fashion-business/short-courses/visual-merchandising/visual-merchandising-and-display-online-short-course-lcf</a>				
4.	<a href="https://textilelearner.net/fashion-merchandising-and-merchandiser/">https://textilelearner.net/fashion-merchandising-and-merchandiser/</a>				

<b>SEMESTER –V</b>					
<b>Elective I – DSE 1</b>					
<b>Course code</b> 81653B	<b>BSC FAM</b>	<b>B. Retail Management</b>	<b>T</b>	<b>Credits:-4</b>	<b>Hours:-6</b>
<b>UNIT -I</b>					
<b>Objectives:1</b>	<b>To learn Fashion retailing and application</b>				
<b>Introduction to Retailing:</b> Concept of retailing, Functions of retailing, Terms & Definition, Retail formats and types, Retailing Channels, Retail Industry in India, Importance of retailing, Changing trends in retailing					
<b>Outcome1</b>	<b>Identify the scope of fashion retail industry. Questions: Define, Describe, Explain, Analyze.</b>				<b>K1</b>
<b>UNIT -II</b>					
<b>Objectives:2</b>	<b>Impart knowledge on Merchandising and Designer boutiques</b>				
<b>Understanding the Retail Consumer:</b> Retail consumer behavior, Factors influencing the Retail consumer, Customer decision making process, Types of decision making, Market research for understanding retail consume					
<b>Outcome2</b>	<b>Implements in Marketing, Retail Buying, Duties &amp; Responsibilities Questions: Define, What, Explain, Find, Describe.</b>				<b>K3</b>
<b>UNIT -III</b>					
<b>Objectives:3</b>	<b>To learn visual merchandising and Accessories display Managing</b>				
<b>Retail Market Segmentation and Strategies:</b> Market Segmentation and its benefits, Kinds of markets, Definition of retail strategy, Strategies for effective market segmentation, Strategies for penetration of new markets, Growth strategies and retail value chain.					
<b>Outcome3</b>	<b>Impacts in Store Design, Definition, Concept, Importance and customers target Questions: Define, Explain, Find, Describe</b>				<b>K4</b>
<b>UNIT-IV</b>					
<b>Objectives:4</b>	<b>To teach fashion Retail promotion strategy</b>				
<b>Retail Location Selection:</b> Importance of retail locations, Types of retail locations, Factors determining the location decision, Steps involved in choosing a retail location, Measurement of success of location					
<b>Outcome4</b>	<b>Application and knowledge about advertising, media selection, relationship marketing strategies Questions: Define, Explain, Find, Describe</b>				<b>K5</b>
<b>UNIT-V</b>					
<b>Objectives:5</b>	<b>To learn about functions of management.</b>				
<b>The Evolution of management thoughts - Management as art - Management as profession – Professionalization of management in India - Functions of management - Levels of management - Case analysis</b>					
<b>Outcome5</b>	<b>Knowledge management thoughts. Questions: Define, Explain, Find, and Describe, Recall.</b>				<b>K2</b>

<b>Text Book(s) &amp; Reference Books</b>	
1.	Fashion Sketch Book –Bina Abling, FairChildPublications,NewYorkWardrobe,1988.
2.	FashionStyling-JacquelineMcAssey(Author),SophieBenson(Author),ClareBuckley(Author).
3.	FashionFrom1.GibsonG.Vedamani.,“Retail Management Functional Principles & Practices” ,Third Edition, Jaico Publishing House,2003,ISBN-10:81-7992-151-42.
4.	Martin.M. Pegler.,“Visual Merchandising and Display”,(fifth edition),Fair ChildPublications,2011, ISBN10:1563674459
5.	Bhalla,S.,andAnuragS.,2010.VisualMerchandising. TataMcGraw-HillEducation
6.	Morgenstein, Melvin and Strongen, H.,1983. Modern Retailing Principles and Practices. John Wiley & Sons. •
7.	Dr.Pentecost,R.,andDr.Andrews,L.,2010.FashionRetailingandtheBottomLine.QUTDigital Repository
8.	Diamond,E.,2006.FashionRetailing:AMulti-channelApproach,Volume1.2nded.Pearson Prentice Hall.
<b>Related Online Contents[MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1.	<a href="https://www.fibre2fashion.com/industry-article/3460/visual-merchandising-the-changing-scenario">https://www.fibre2fashion.com/industry-article/3460/visual-merchandising-the-changing-scenario</a>
2.	<a href="https://www.bloomsbury.com/us/fashion-styling-9781350241848/">https://www.bloomsbury.com/us/fashion-styling-9781350241848/</a>
3.	<a href="http://www.brainkart.com">www.brainkart.com</a>

SEMESTER -V				
Course Code 81654	BSC FAM CC	Women's Apparel	P	Credits:4 Hours:5
UNIT - I				
<b>Objective 1</b>	<b>To draft a pattern and construct the garment</b>			
Saree Petticoat- Six Panel, Decorated bottom. Skirts – pleated skirt				
<b>Outcome 1</b>	<b>Pattern drafted and Stitched the garment with design</b> <b>Questions: To draft, To design, To Apply, To stitch</b>			<b>K1</b>
UNIT – II				
<b>Objective 2</b>	<b>To draft a pattern and construct the garment</b>			
Middi Top- sleeve variation Blouse- Fashioned neck, Waist band at front, with sleeve.				
<b>Outcome 2</b>	<b>Pattern drafted and Stitched the garment with design</b> <b>Questions: To draft, To design, To Apply, To stitch</b>			<b>K2</b>
UNIT – III				
<b>Objective 3</b>	<b>To draft a pattern and construct the garment</b>			
5. Salwar (or) Churidhar- used elastic at waistline 6. Kameez/Kurta – with slit, with or without flare				
<b>Outcome 3</b>	<b>Pattern drafted and Stitched the garment with design</b> <b>Questions: To draft, To design, To Apply, To stitch</b>			<b>K3</b>
UNIT – IV				
<b>Objective 4</b>	<b>To draft a pattern and construct the garment</b>			
Maxi/Nighty – Decorative neck, with sleeve , full length				
<b>Outcome 4</b>	<b>Pattern drafted and Stitched the garment with design</b> <b>Questions: To draft, To design, To Apply, To stitch</b>			<b>K4</b>
UNIT - V				
<b>Objective 5</b>	<b>To draft a pattern and construct the garment</b>			
Ladies pant (Pyjama)				
<b>Outcome 5</b>	<b>Pattern drafted and Stitched the garment with design</b> <b>Questions: To draft, To design, To Apply, To stitch</b>			<b>K5</b>
Reference & Text Books				
1.	Gayatri Verma and Kapil Dev, “Cutting and tailoring course”, Computech Publications, 2009.			
2.	Shri K.R. Zarakar, “System of cutting”, Navneet Publications (INDIA) limited, 2010.			
3.	Mary Mathews, “Practical clothing construction”, Printed by Bhattarams, Copyright 1995			

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1.	<a href="http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf">http://www.go-woman.com/wpcontent/uploads/factsheets/FREE_Sewing_Book.pdf</a>
2.	<a href="http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-">http://brittlebooks.library.illinois.edu/brittlebooks_open/Books2009-</a>
3.	<a href="http://buc.edu.in/sde_book/fashion_design.pdf">http://buc.edu.in/sde_book/fashion_design.pdf</a>
4.	<a href="http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p">http://cbseacademic.in/web_material/doc/fashion_studies/3_XII_Text_Book.p</a>

**SEMESTER - V**

<b>Course Code</b> 81655	<b>BSC FAM</b> CC	<b>Surface Embellishment and</b> <b>Accessories</b>	<b>P</b>	<b>Credits:4</b>	<b>Hours:5</b>
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**UNIT -I**

**Objective I**      **Create Hand Embroidery Samples (20 stitches – 10 samples)**

- Outline Stitches
- Filling Stitches
- Loop Stitches
- Cross Stitches

**Outcome1**      **Understand about Hand Embroidery**  
**Questions: To Make ,To Design, Apply, Create**      **K1**

**UNIT – II**

**Objective2**      **Create the following samples**

- Bead work
- Sequins work
- Zardosi work
- Mirror work–Shapes (Round, Square, Diamond)Any2 Samples

**Outcome2**      **Develop Samples Using Surface Enrichment**  
**Questions: To Make ,To Design, Apply, Create**      **K2**

**UNIT – III**

**Objective3**      **Create Embroidery Samples with Applique, Patch work**

- Applique
- Simple Patchwork
- Smocking
- Quilting

**Outcome3**      **Design and Develop Samples for Thread Embroidery, Applique**  
**Questions: To Make ,To Design, Apply, Create**      **K3**

**UNIT – IV**

**Objective4**      **Create a samples for Accessories(Any Two Samples)**

- Belts – any 2types.
- Bows –any 2types
- Hand bag – 1sample
- Foot wear -1sample
- Purse

**Outcome4**      **Develop Samples for accessories**  
**Questions: To Make , To Design, Create**      **K4**

**UNIT -V**

**Objective5**      **Enhance Creativity by Jewellery designing**

- Earring-1
- Chain-1
- Bangles-1

**Outcome5**      **Understand about to make jewellery designing**  
**Questions:To Make ,To Design, Create**      **K5**

**Reference & Text Books**

1.	Charlotte Gerlings, Embroidery: A Beginner's Step- By-Step Guide To Stitches And Techniques ,2013
2.	Augustus F. Rose, Antonio Cirino, Jewelry Making And Design, 2012
3.	Libby Moore, Thread Folk: A Modern Makers Book of Embroidery Projects and Artist Collaboration, Paige Tate & Co, 2019

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

1.	<a href="https://sewguide.csom/smoking/">https://sewguide.csom/smoking/</a>
2.	<a href="https://www.youtube.com/watch?v=Ug2d1NUuE4A">https://www.youtube.com/watch?v=Ug2d1NUuE4A</a>
3.	<a href="https://www.youtube.com/watch?v=uJ2SyeFA_B4">https://www.youtube.com/watch?v=uJ2SyeFA_B4</a>
4.	<a href="https://www.youtube.com/watch?v=nJz9c8gEvFg">https://www.youtube.com/watch?v=nJz9c8gEvFg</a>

SEMESTER - V					
Course Code 81656	BSC FAM CC	Computer Aided Designing-II	P	Credits:4	Hours:5
<b>UNIT - I</b>					
<b>Objective I</b>	<b>Create garment designs for different occasions and uniforms.</b>				
Party Wear – Women, Men, Children. Sports Wear- Men, Women, Children. Fashion show – Children, men and women School uniforms.					
<b>Outcome 1</b>	<b>Understand about garment designs for different occasions and uniforms</b> <b>Questions: To create, To design, To Apply</b>				<b>K1</b>
<b>UNIT – II</b>					
<b>Objective 2</b>	<b>Create garment design for different season.</b>				
Winter Wear - Children, men and women Summer Wear - Children, men and women Spring Wear - Children, men and women					
<b>Outcome 2</b>	<b>Understand about the seasonal wear</b> <b>Questions: To create, To design, To Apply</b>				<b>K2</b>
<b>UNIT – III</b>					
<b>Objective 3</b>	<b>Design theme based garments</b>				
Create a collection of minimum 3 garments based on a theme's					
<b>Outcome 3</b>	<b>To understand about the theme based garments</b> <b>Questions: To create, To design, To Apply</b>				<b>K3</b>
<b>UNIT – IV</b>					
<b>Objective 4</b>	<b>Prepare pattern for the following.</b>				
Bib Jabla Knicker					
<b>Outcome 4</b>	<b>Understand about pattern using cad software</b> <b>Questions: To create, To design, To Apply</b>				<b>K4</b>
<b>UNIT - V</b>					
<b>Objective 5</b>	<b>Grade the following patterns.</b>				
Bodice front Bodice back Basic sleeve					
<b>Outcome 5</b>	<b>learn computerized pattern making and grading using CAD software</b> <b>Questions: To create, To design, To Apply</b>				<b>K5</b>

<b>Reference &amp; Text Books</b>	
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1.	<b><u>Chris Spear</u>, “SystemVerilog for Verification”, Springer(2012)</b>
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2.	<b><u>P N Rao</u>, “CAD/CAM: Principles and Applications Paperback”, McGraw Hill Education, (2017)</b>
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3.	<b><u>Cheryl R. Shrock</u>, “Beginning Autocad Exercise Book”, (2010)</b>
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<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
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1.	<b><a href="https://www.glamsen.se/CadTools.htm">https://www.glamsen.se/CadTools.htm</a></b>
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2.	<b><a href="https://textilelearner.net/list-of-cad-cam-software/">https://textilelearner.net/list-of-cad-cam-software/</a></b>
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3.	<b><a href="http://www.coreldraw.com/en/product/corel-cad">www.coreldraw.com/en/product/corel-cad</a></b>
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SEMESTER -VI				
Course Code 81661	BSCFAM CC	Fashion Clothing Psychology	T	Credits:3 Hours:4
<b>UNIT-I</b>				
<b>Objective I</b>	<b>To learn about fashion accessories.</b>			
<b>Fashion Accessories-</b> Shoes, handbags, jewellery, hats, ties and others. Prepare a picture album for accessories.				
<b>Outcome1</b>	<b>Students should know the suitable accessories for garment.</b>			<b>K1</b>
	<b>Questions: What, About, Create, Analyse</b>			
<b>UNIT-II</b>				
<b>Objective2</b>	<b>To learn the figure irregularities and wardrobe plan.</b>			
<b>Figure irregularities:</b> Stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face and broad face, prominent chin and jaw and prominent forehead. Wardrobe planning and factors to be considered while selecting clothes for different age groups (men and women)				
<b>Outcome2</b>	<b>To impart knowledge about fashion designing for figure irregularities.</b>			<b>K2</b>
	<b>Questions: What, About, List out, Explain.</b>			
<b>UNIT-III</b>				
<b>Objective3</b>	<b>To teach the how factors affecting the fashion changes.</b>			
<b>Factors affecting fashion changes-</b> Psychological needs of fashion, Socio Psychology of fashion, Technology, Economical, Political, legal and seasonal. Recurring silhouettes – changes in silhouettes from 1895 onwards; fashion cycle; fashion Prediction; Role of costumes as status symbol, clothes as sex appeal, self-identity, cultural value.				
<b>Outcome3</b>	<b>Understanding about need of fashion changes.</b>			<b>K3</b>
	<b>Questions: What, About, Define, Analyse.</b>			
<b>UNIT-IV</b>				
<b>Objective4</b>	<b>Students should understand the forecasting.</b>			
<b>Fashion forecasting:</b> Color, fabrics, current fashion silhouettes, texture, designs - Designer types – classicist, idealist, Influenced, Realist, Thinking poet				
<b>Outcome4</b>	<b>To understand the concept of texture, silhouettes and design.</b>			<b>K4</b>
	<b>Questions: What, About, Explain.</b>			
<b>UNIT-V</b>				
<b>Objective5</b>	<b>To learn about fashion designer.</b>			
<b>Types of designers</b> – High fashion Designer, Stylist, and Freelance Designer. Sources of design inspiration. Indian fashion Designers- Manish Malhotra, Ritu kumar, Ritu berri, Tarun Tahilani, Wendell Rodricks, Abu Jani and Sandeep Khosla, JJ Valaya, Rina Dhaka, Manish Arora, and Rohit Bal.				
<b>Outcome5</b>	<b>Studied about different types of designer.</b>			<b>K5</b>
	<b>Question: Create, Analyse.</b>			

**Reference & Text Books**

1.	Harriet T, Mc Jimsey, “Art and fashion in clothing selection”, The Iowa State University Press, Ames, Iowa.
2.	Fashion –From concept to consumer – Gini Stephens Frings , 6th edition, prentice Hall
3.	Fashion Merchandising & Merchandising, 4th Edition, Mary G.Wolfe, The Goodheart-Willcox Co.,Inc, Illions, 2014.
4.	. Benneett, “Femina Book of Fashion”, Coleman & Co., Ltd., Mumbai (1998)

**Related Online Contents[MOOC,SWAYAM, NPTEL, Websitesetc.]**

1.	<a href="https://www.arts.ac.uk/subjects/business-and-management-and-science/undergraduate/bsc-hons-psychology-of-fashion-lcf">https://www.arts.ac.uk/subjects/business-and-management-and-science/undergraduate/bsc-hons-psychology-of-fashion-lcf</a>
2.	<a href="https://www.liberty.edu/online/courses/facs302/">https://www.liberty.edu/online/courses/facs302/</a>
3.	<a href="https://studylib.net/doc/8453058/fashion-and-clothing-psychology---e">https://studylib.net/doc/8453058/fashion-and-clothing-psychology---e</a>
4.	<a href="https://textilelearner.net/elements-and-steps-involved-in-apparel-costing/">https://textilelearner.net/elements-and-steps-involved-in-apparel-costing/</a>

SEMESTER - VI					
Course Code 81662	BSC FAM CC	Fashion Entrepreneurship Development	T	Credits:3	Hours:4
<b>UNIT - I</b>					
<b>Objective I</b>	<b>To learn about entrepreneurship development of apparel and fashion industry.</b>				
Introduction to entrepreneurship, development of entrepreneurship, role of entrepreneurs in development of apparel and fashion industry, entrepreneurship with reference to fashion and apparel industry in India.					
<b>Outcome 1</b>	<b>Students should know the value of entrepreneurship.</b> <b>Questions: What, About, Explain, Analyse</b>				<b>K1</b>
<b>UNIT – II</b>					
<b>Objective 2</b>	<b>To teach various government policies in textile industry.</b>				
Entrepreneurial support by state, central financial institutions, organizations. Government policies with reference to textile and apparel industry					
<b>Outcome 2</b>	<b>To impart knowledge about government policies.</b> <b>Questions: What, About, List out, Explain.</b>				<b>K2</b>
<b>UNIT – III</b>					
<b>Objective 3</b>	<b>Students should understand the Business planning.</b>				
Business planning- Starting a new venture related to apparel industry, essentials of a successful centre. Limited company & public Ltd Company, bank formalities, term loan, working capital, project financing.					
<b>Outcome 3</b>	<b>Understanding about financing.</b> <b>Questions: What, About, Define, Analyse.</b>				<b>K3</b>
<b>UNIT – IV</b>					
<b>Objective 4</b>	<b>Students should learn the overall planning about textile industry.</b>				
Location & plant layout-factors influencing plant location, building, structure, lighting, Ventilation, material handling, availability of labour, material management and transportation. Plant layout, ergonomics safety & security to be considered while planning the layout.					
<b>Outcome 4</b>	<b>To understand the textile industry planning the layout.</b> <b>Questions: What, About, Explain.</b>				<b>K4</b>
<b>UNIT - V</b>					
<b>Objective 5</b>	<b>To learn about act and social responsibilities.</b>				
Industrial sickness and remedies, tax planning, VAT, Patent Rules, Factory Act, Minimum wages, knowledge of exemptions & deductions. Environmental considerations and social responsibilities.					
<b>Outcome 5</b>	<b>Studied about different act and responsibilities.</b> <b>Question: Explain, Why, What, Describe</b>				<b>K5</b>
<b>Reference &amp; Text Books</b>					
1.	Ormerod A Textile Project Management, the Textile Institute, 1992.				
2.	SangramKeshariMohanti Fundamentals & Entrepreneurship: 2009: PHI learning				
3.	Vasanth Desai the dynamics of entrepreneurial development & Management: 6th edition Himalaya publish house. 2009.				

<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1.	<a href="https://www.scribd.com/books/Business/Business-Development">https://www.scribd.com/books/Business/Business-Development</a>
2.	<a href="https://www.pdfdrive.com/business-development-books.html">https://www.pdfdrive.com/business-development-books.html</a>
3.	<a href="https://thebdschool.com/business-development-books/">https://thebdschool.com/business-development-books/</a>
4.	<a href="https://www.perlego.com/book/1622301/business-development-a-guide-to-small-business-strategy-pdf">https://www.perlego.com/book/1622301/business-development-a-guide-to-small-business-strategy-pdf</a>

SEMESTER – VI Elective II – DSE 2					
Course Code 81663A	BSCFAM	A. Technical Textiles & Non-Woven	T	Credits:4	Hours:6
UNIT - I					
<b>Objective I</b>	<b>To learn about importance of technical textiles.</b>				
Technical Textiles – Introduction, definition, application, importance and end uses.					
<b>Outcome 1</b>	<b>Students should know the technical textile uses.</b> <b>Questions: What, About, Explain, Analyse</b>				<b>K1</b>
UNIT – II					
<b>Objective 2</b>	<b>To teach about where it is used technical textiles.</b>				
Geo textiles – Introduction, General properties and end uses. Industrial textiles Introduction, General properties and end uses.					
<b>Outcome 2</b>	<b>To impart knowledge about geo textiles.</b> <b>Questions: What, About, List out, Explain.</b>				<b>K2</b>
UNIT – III					
<b>Objective 3</b>	<b>To teach the medical textiles and uses.</b>				
Medical textiles – Introduction, General properties and end uses. Home textiles– Introduction, General properties and end uses.					
<b>Outcome 3</b>	<b>Understanding about medical textiles.</b> <b>Questions: What, About, Define, Analyse.</b>				<b>K3</b>
UNIT – IV					
<b>Objective 4</b>	<b>To learn the nonwoven material.</b>				
Non-woven – definition – classification - fibres used - web preparation - parallel laid - cross laid and random laid web preparation.					
<b>Outcome 4</b>	<b>To understand the concept of web preparation.</b> <b>Questions: What, About, Explain.</b>				<b>K4</b>
UNIT - V					
<b>Objective 5</b>	<b>To learn about types of bonding in non-woven.</b>				
Bonding – mechanical – thermal - chemical / adhesive. Production of melt blown and spun lace techniques.					
<b>Outcome 5</b>	<b>Studied about different types of bonding.</b> <b>Question: Explain, About, What.</b>				<b>K5</b>
Reference & Text Books					
1.	Technical textiles-Anand and A.R.Horracks, Textile institute.				
2.	Non-wovens - Arul Dahiya, MG Kamath, Raghavendra R Hedge and Monika Kannadnguli.				
3.	Hand Book of Technical Textiles – A R Morrocks and S C Anand, wood Head				

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1.	<a href="https://ittaindia.org/abouttechnicaltextile">https://ittaindia.org/abouttechnicaltextile</a>
2.	<a href="https://www.technicaltextile.net/articles/technical-textiles-and-their-applications-3922">https://www.technicaltextile.net/articles/technical-textiles-and-their-applications-3922</a>
3.	<a href="https://www.textiletoday.com.bd/types-non-woven-fabrics-manufacturing-processes-applications">https://www.textiletoday.com.bd/types-non-woven-fabrics-manufacturing-processes-applications</a>
4.	<a href="https://recovo.co/blog/what-is-non-woven-fabric/">https://recovo.co/blog/what-is-non-woven-fabric/</a>

SEMESTER – VI Elective II – DSE 2				
Course Code 81663B	BSCFAM	B. Home Textiles	T	Credits:4 Hours:6
<b>UNIT - I</b>				
<b>Objective 1</b>	<b>To learn about recent trends in home furnishing.</b>			
<b>Introduction to Home textiles</b> – Different types of furnishing materials. Definition – Different types of furnishing materials – Woven and Non-woven, Factors affecting selection of home furnishes. Recent Trends in Home Furnishing				
<b>Outcome 1</b>	<b>Students should know the uses of home furnishing.</b> <b>Questions: What, About, Explain, Analyse</b>			<b>K1</b>
<b>UNIT – II</b>				
<b>Objective 2</b>	<b>To teach about use and care of wall covering .</b>			
<b>Floor and wall coverings:</b> Floor coverings – Hard floor coverings, resilient floor coverings. Soft floor coverings – Rugs and carpets, Use and care. Wall covering – Use and care Geo textiles – Introduction, General properties and end uses. Industrial textiles Introduction, General properties and end uses.				
<b>Outcome 2</b>	<b>To impart knowledge about floor and wall coverings.</b> <b>Questions: What, About, List out, Explain.</b>			<b>K2</b>
<b>UNIT – III</b>				
<b>Objective 3</b>	<b>Prepare pattern for the following.</b>			
<b>Doors and Window treatments:</b> 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>Outcome 3</b>	<b>To understand about the theme based garments</b> <b>Questions: To create, To design, To Apply</b>			<b>K3</b>
<b>UNIT – IV</b>				
<b>Objective 4</b>	<b>Design theme based garments</b>			
<b>Soft furnishings for living rooms:</b> Living Room Furnishing: 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>Outcome 4</b>	<b>To understand the suitable material used for living room.</b> <b>Questions:What, About, Explain.</b>			<b>K4</b>
<b>UNIT - V</b>				
<b>Objective 5</b>	<b>To learn about Soft furnishing for kitchen and dining.</b>			
<b>Soft furnishing for kitchen and dining</b> – Soft furnishings for kitchen and dining, types of kitchen linens – kitchen towel, aprons, dish cloth, Kitchen and Table Linens: 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>Outcome 5</b>	<b>Studied about different types of materials.</b> <b>Question: Explain, About, What.</b>			<b>K5</b>

**Reference & Text Books**

1.	<b>Home Comforts-The Arts and Science of Keeping Home, Cheryl Mendelson, Scriber, New York, 2005</b>
2.	<b>Design and make curtains, Heather Luke, New Holland publishers, London,1999.</b>
3.	<b>Cushions and Pillows- Professional Skills – Made Easy, Hamlyn Octopus, Octopus Publishing Group, New York, 2001</b>

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

1.	<a href="https://www.homestratosphere.com/types-curtains/">https://www.homestratosphere.com/types-curtains/</a>
2.	<a href="https://www.technicaltextile.net/articles/technical-textiles-and-their-applications-3922">https://www.technicaltextile.net/articles/technical-textiles-and-their-applications-3922</a>
3.	<a href="https://textilestudycenter.com/textile-books-free-download/">https://textilestudycenter.com/textile-books-free-download/</a>
4.	<a href="https://www.researchgate.net/publication/326508042_Home_Textiles">https://www.researchgate.net/publication/326508042_Home_Textiles.</a>

SEMESTER – VI					
Course Code 81664	BSC FAM CC	Fashion Portfolio	P	Credits:3	Hours:4
<b>UNIT - I</b>					
<b>Objective I</b>	<b>To plan a theme for design output</b>				
Theme selection To create an Introduction board, Theme board, Customer Profile (To be presented separately or in a combined form)					
<b>Outcome 1</b>	<b>Theme and design selected</b> <b>Questions: To create, To design, To Apply</b>				<b>K1</b>
<b>UNIT – II</b>					
<b>Objective 2</b>	<b>To create a story board</b>				
Create a story board, Mood board, color board (To be presented separately or in a combined form)					
<b>Outcome 2</b>	<b>Learned about basic theme boards</b> <b>Questions: To create, To design, To Apply</b>				<b>K2</b>
<b>UNIT – III</b>					
<b>Objective 3</b>	<b>To draft a pattern and alter with design</b>				
Create a Swatch board, Accessories board, Pattern Board (To be presented separately or in a combined form)					
<b>Outcome 3</b>	<b>Drafted a pattern for theme garment</b> <b>Questions: To draft, To design, To Apply, To create</b>				<b>K3</b>
<b>UNIT – IV</b>					
<b>Objective 4</b>	<b>To develop a design and construct a garment</b>				
Create a design development chart (To be presented separately or in a combined form)					
<b>Outcome 4</b>	<b>Stitched the garment with design</b> <b>Questions: To draft, To design, To Apply, To stitch</b>				<b>K4</b>
<b>UNIT - V</b>					
<b>Objective 5</b>	<b>To create a final presentation</b>				
Create a Final Presentation (Photograph of the Garment).					
<b>Outcome 5</b>	<b>Boards are aligned and presented</b> <b>Questions: How, To create, To design</b>				<b>K5</b>
<b>Reference &amp; Text Books</b>					
1.	“Fashion Portfolio: Design and Presentation”, Anna Kiper , Batsford Publication 2016				
2.	“Portfolio Presentation for Fashion Designers”, Linda Tain, Fairchild Publication 2018				
3.	“Design Your Fashion Portfolio”, Faerm, Steven, A & C Black Publication 2011				

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

**81665 - INDUSTRIAL AND PROJECT VIVA**  
**Credits: 8**  
**Hours: 12**

## UG Programme

### **Passing minimum**

- A candidate shall be declared to have passed in each course if he/she secures not less than 40% marks in the End Semester Examinations and 40% marks in the Internal Assessment and not less than 40% in the aggregate, taking Continuous assessment and End Semester Examinations marks together.
- The passing minimum for CIA shall be 40% out of 25 marks (i.e.10 marks) in Theory/ Practical Examinations.
- The passing minimum for University Examinations shall be 40% out of 75 marks (i.e. 30 marks) for Theory /Practical papers.
- The candidates not obtain 40% in the Internal Assessment are permitted to improve their Internal Assessment marks in the subsequent semesters (2 chances will be given) by writing the CIA tests or by submitting assignments.
- Candidates, who have secured the pass marks in the End-Semester Examination and in the CIA but failed to secure the aggregate minimum pass mark (E.S.E + C I.A), are permitted to improve their Internal Assessment mark in the following semester and/or in University examinations.
- A candidate shall be declared to have passed in the Dissertation/Project report/Internship report if he/she gets not less than 40% marks in the Internal Assessment and End Semester Examinations and not less than 40% in the aggregate, taking Continuous assessment and End Semester Examinations marks together.
- A candidate who gets less than 40% in the Dissertation / Internship/ Project Report must resubmit the thesis. Such candidates need to take again the Viva-Voce on the resubmitted report/thesis.

### **18.2 Grading of the Courses**

The following table gives the marks, Grade points, Letter Grades, and classifications meant to indicate the overall academic performance of the candidate.

Conversion of Marks to Grade Points and Letter Grade (Performance in Course / Paper)

RANGE OF MARKS	GRADE POINTS	LETTER GRADE	DESCRIPTION
90 - 100	9.0 – 10.0	O	Outstanding
80 - 89	8.0 – 8.9	D+	Excellent
75 - 79	7.5 – 7.9	D	Distinction
70 - 74	7.0 – 7.4	A+	Very Good
60 - 69	6.0 – 6.9	A	Good
50 - 59	5.0 – 5.9	B	Average
40 - 49	4.0 – 4.9	C	Satisfactory
00 - 39	0.0	U	Re-appear
ABSENT	0.0	AAA	SENT

- Successful candidates passing the examinations and earning a GPA between 9.0 and 10.0 and marks from 90 – 100 shall be declared to have Outstanding (O).
- Successful candidates passing the examinations and earning GPA between 8.0 and 8.9 and marks from 80 - 89 shall be declared to have Excellent (D+).
- Successful candidates passing the examinations and earning GPA between 7.5 – 7.9 and marks from 75 - 79 shall be declared to have Distinction (D).
- Successful candidates passing the examinations and earning GPA between 7.0 – 7.4 and marks from 70 - 74 shall be declared to have Very Good (A+).
- Successful candidates passing the examinations and earning GPA between 6.0 – 6.9 and marks from 60 - 69 shall be declared to have Good (A).
- Successful candidates passing the examinations and earning GPA between 5.0 – 5.9 and marks from 50 - 59 shall be declared to have Average (B).
- Successful candidates passing the examinations and earning GPA between 4.0 – 4.9 and marks from 40 - 49 shall be declared to have Satisfactory (C).
- Candidates earning GPA between 0.0 and marks from 00 - 39 shall be declared to have Re-appear (U).
- Absence from an examination shall not be taken as an attempt.

From the second semester onwards the total performance within a semester and continuous performance starting from the first semester are indicated respectively by Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA).

These two are calculated by the following formulae

$$\text{GRADE POINT AVERAGE (GPA)} = \frac{\sum C_i G_i}{\sum C_i}$$

GPA = Sum of the multiplication of grade points by the credits of the courses

Sum of the credits of the courses in a Semester

### **18.3 Classification of the final result**

The final result of the candidate shall be based only on the CGPA earned by the candidate.

- a) Successful candidates passing the examinations and earning CGPA between 9.5 and 10.0 shall be given Letter Grade (O+) and those who earned CGPA between 9.0 and 9.4 shall be given Letter Grade (O) and declared to have First Class –Exemplary\*.
- b) Successful candidates passing the examinations and earning CGPA between 7.5 and 7.9 shall be given Letter Grade (D), those who earned CGPA between 8.0 and 8.4 shall be given Letter Grade (D+) and those who earned CGPA between 8.5 and 8.9 shall be given Letter Grade (D++) and declared to have First Class with Distinction\*.
- c) Successful candidates passing the examinations and earning CGPA between 6.0 and 6.4 shall be given Letter Grade (A), those who earned CGPA between 6.5 and 6.9 shall be given Letter Grade (A+), and those who earned CGPA between 7.0 and 7.4 shall be given Letter Grade (A++) and declared to have First Class.
- d) Successful candidates passing the examinations and earning CGPA between 5.0 and 5.4 shall be given Letter Grade (B) and those who earned CGPA between 5.5 and 5.9 shall be given Letter Grade (B+) and declared to have passed in the Second Class.
- e) Successful candidates passing the examinations and earning CGPA between 4.0 and 4.4 shall be given Letter Grade (C) and those who earned CGPA between 4.5 and 4.9 shall be given Letter Grade (C+) and declared to have passed in the Third Class.
- f) Absence from an examination shall not be taken as an attempt.

### Final Result

CGPA	Grade	Classification of Final Result
9.5 – 10.0 9.0 and above but below 9.5	<b>O+</b> <b>O</b>	First Class – Exemplary*
8.5 and above but below 9.0 8.0 and above but below 8.5 7.5 and above but below 8.0	<b>D++</b> <b>D+</b> <b>D</b>	First Class with Distinction*
7.0 and above but below 7.5 6.5 and above but below 7.0 6.0 and above but below 6.5	<b>A++</b> <b>A+</b> <b>A</b>	First Class
5.5 and above but below 6.0 5.0 and above but below 5.5	<b>B+</b> <b>B</b>	Second Class
4.5 and above but below 5.0 4.0 and above but below 4.5	<b>C+</b> <b>C</b>	Third Class
0.0 and above but below 4.0	<b>U</b>	Re-appear

CUMULATIVE GRADE POINT AVERAGE (CGPA) =  $\frac{\sum_n \sum_i C_{ni} G_{ni}}{\sum_n \sum_i C_{ni}}$

CGPA = Sum of the multiplication of grade points by the credits of the entire programme

Sum of the credits of the course for the entire Programme

Where ‘Ci’ is the Credit earned for Course i in any semester; ‘Gi’ is the Grade Point obtained by the student for Course i and ‘n’ refers to the semester in which such courses were credited.

**CGPA** (Cumulative Grade Point Average) = Average Grade Point of all the Courses passed starting from the first semester to the current semester.

Note: \* The candidates who have passed in the first appearance and within the prescribed Semesters of the UG Programme (Major, Allied, and Elective courses alone) are eligible for this classification.