

JAMAL MOHAMED COLLEGE (AUTONOMOUS), Tiruchirappalli – 620 020.

B.Voc. Apparel and Fashion Design

(Programme structure for Students admitted from 2018-2019 onwards)

Sem	Part	Course	Course Code	Course Title	Total Hours	Credits	Marks			
							CIA	ESE	TOTAL	
	I	General	18B1LT1 /18B1LBT1	Language – I (Tamil)/Basic Tamil-I	30	2	25	75	100	
	II	General	18BCN1E1	English – I	30	2	25	75	100	
		General	18BAF1C1	Apparel Designing and Clothing Psychology	45	3	25	75	100	
		General	18BAF1C2	Sewing Techniques	45	3	25	75	100	
		Skill	18BAF1C3P	Apparel Designing and Sketching - Practical	90	6	20	80	100	
		Skill	18BAF1C4P	Sewing Techniques - Practical	90	6	20	80	100	
		Skill	18BAF1C5I	Internship	180	6	20	80	100	
	IV	General	18BCN1VE	Value Education	30	2	-	100	100	
	TOTAL					540	30	-	-	800
		I	General	18B2LT2 /18B2LBT2	Language – II (Tamil) /Basic Tamil-II	30	2	25	75	100
II		General	18BCN2E2	English - II	30	2	25	75	100	
		General	18BAF2C6	Apparel Technology and Entrepreneurship	45	3	25	75	100	
		General	18BAF2C7	Fiber to Fabric	45	3	25	75	100	
		Skill	18BAF2C8P	Apparel Designing for Girl's Wear - Practical	90	6	20	80	100	
		Skill	18BAF2C9P	Computer Aided Fashion Designing – Practical	90	6	20	80	100	
		Skill	18BAF2C10I	Internship	180	6	20	80	100	
IV		General	18BCN2ES	Environmental Studies	30	2	-	100	100	
TOTAL					540	30	-	-	800	
			General	18BAF3C11	Fabric Manufacturing Technology	60	4	25	75	100
	General		18BAF3C12	Fabric Structure and Design	45	3	25	75	100	
	General		18BAF3C13	Chronicles of Textiles and Costumes	45	3	25	75	100	
	Skill		18BAF3C14P	Apparel Designing for Boy's Wear - Practical	75	5	20	80	100	
	Skill		18BAF3C15P	Fabric Structure and Design - Practical	60	4	20	80	100	
	Skill		18BAF3C16P	Hand Embroidery - Practical	45	3	20	80	100	
	Skill		18BAF3C17I	Internship	180	6	20	80	100	
	IV	General	18BCN3SS	Soft Skills Development	30	2	-	100	100	
	TOTAL					540	30	-	-	800
			General	18BAF4C18	Textile Wet Processing	60	4	25	75	100
General			18BAF4C19	Export Trade	60	4	25	75	100	
General			18BAF4C20	Apparel Merchandising and Marketing	45	3	25	75	100	
Skill			18BAF4C21P	Apparel Designing for Women's Wear - Practical	75	5	20	80	100	
Skill			18BAF4C22P	Textile Wet Processing - Practical	60	4	20	80	100	
Skill			18BAF4C23P	Accessories Making - Practical	45	3	20	80	100	
Skill			18BAF4C24I	Internship	180	6	20	80	100	
IV		General	18BCN4GS	Gender Studies	15	1	-	100	100	
TOTAL					540	30	-	-	800	
			General	18BAF5C25	Garment Quality and Cost Control	60	4	25	75	100
	General		18BAF5C26	Textile Testing	60	4	25	75	100	
	General		18BAF5C27	Apparel Home Furnishing	60	4	25	75	100	
	Skill		18BAF5C28P	Apparel Designing for Men's Wear – Practical	75	5	20	80	100	
	Skill		18BAF5C29P	Textile Testing - Practical	60	4	20	80	100	
	Skill		18BAF5C30P	Apparel Home Furnishing - Practical	45	3	20	80	100	
	Skill		18BAF5C31I	Internship	180	6	20	80	100	
	TOTAL					540	30	-	-	700
			General	18BAF6C32	Visual Merchandising	60	4	25	75	100
			General	18BAF6C33	Wardrobe Planning and Fabric Care	60	4	25	75	100
General			18BAF6C34	Home Science	60	4	25	75	100	
Skill			18BAF6C35P	Apparel Draping - Practical	75	5	20	80	100	
Skill			18BAF6C36P	Aari Embroidery – Practical	60	4	20	80	100	
Skill			18BAF6C37P	Fabric Painting - Practical	45	3	20	80	100	
Skill			18BAF6C38I	Internship	180	6	20	80	100	
TOTAL					540	30	-	-	700	
GRAND TOTAL					3240	180	-	-	4600	

General Course – 24		Skill Course – 22	Total
Language - 2	Environmental Studies - 1	Practical's – 16	
English - 2	Gender Studies - 1	Internship – 6	
Value Education – 1	Soft Skills Development - 1		
Apparel and Fashion Design (Theory) – 16			

**SEMESTER I
18BAF1C1
APPAREL DESIGNING AND CLOTHING PSYCHOLOGY**

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	25
Total Hours	:	45	External Marks	:	75

OBJECTIVES:

- To know the knowledge about terminology of fashion, structural and decorative designs, elements of art and principles of design.
- To design the garment for unusual figures.
- To learn trickle down, trickle up and across theory.
- To develop knowledge about fashion psychology, fashion designer and fashion centers.

UNIT-I: INTRODUCTION TO FASHION AND TERMS 8 Hrs

Introduction to fashion design. Terminology of fashion- fashion, apparel, style, design, classic, fad, trend, chic, haute couture, mannequin. Fashion forecasting - fashion show, trade show. Fashion cycle Application of Structural and Decorative Design in dress design.

UNIT-II: ELEMENTS OF DESIGN AND PORTFOLIO PRESENTATION 10 Hrs

Elements of Art - line, shape or forms, color, size, and texture. Principle of Design- balance, rhythm, proportion, harmony and emphasis.

Occasions - Forecasting colors, Pattern and Fabric for the ensuing seasons based on national forecast. Preparation –Theme board, Mood board, Story board, Fabric board, Colour board.Fabric development chart-Design development chart- Final Presentation.

UNIT-III: FIGURE IRREGULARITIES 8 Hrs

Garment Designing for Figure Irregularities becoming and unbecoming. Figure types –Stout figure, Thin figure, Slender figure, Broad Shoulder, Narrow shoulder, Round shoulder, Flat bust, Large bust, Large abdomen, Large hip. Faces-Round, Large, Small, Broad, Chin-Prominent and Jaw, Prominent forehead.

UNIT- IV: SOURCES OF FASHION INSPIRATION**9 Hrs**

Theories of fashion adoption- down flow theory, horizontal flow theory, upward flow theory. Factors influencing fashion changes- psychological, social, technological, economical, political, legal and seasonal influence. Role of costumes as a status symbol. Fashion leaders and followers.

UNIT-V: FASHION CENTERS AND DESIGNERS**10 Hrs**

World fashion Centers- France, USA, Italy, Germany, New York and Far East countries.

Indian- culture and traditional costume, state fashion. Understanding fashion designers- classicists, idealist, influenced, realist, and thinking poet. Indian Designers-RituBeri, RohitKhosla, Ritu Kumar, RohitBal,

COURSE OUTCOME:

1. Build of fashion design. (k3)
2. List out of elements of art and principles of designs. (k1)
3. Illustrate the Garment Designing for types of figures. (k2)
4. Build of fashion inspiration (k3)
5. Motivate an Indian culture and understand about fashion designer and make use of current fashion and world fashion (k3)

TEXT BOOK:

“Apparel Designing and Clothing Psychology” - Text book prepared by the department.

BOOKS FOR REFERENCES:

1. Khurana and Sethi, Introduction to Fashion Technology, Fire Well Publication, New Delhi, 2007.
2. Pundir. N, Fashion Technology Today and Tomorrow, Mittal Publication, New Delhi, 2007.
3. JudithRasband, “Wardrobe Strategies for Women”, Judith Rasband, Delmar Publishers, London, 1995.
4. Jenny Davis, A Complete Guide to Fashion Designing, 1st Edition, Abhishek Publication, Chandigarh, 2009.
5. Frings, Fashion from Concept to Consumer, 7th Edition, Dorling Kindersley Publishing Inc, India, 2008.

SEMESTER-I
18BAF1C2
SEWING TECHNIQUES

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	25
Total Hours	:	45	External Marks	:	75

OBJECTIVES:

- To gain knowledge in Seams and its Finishes.
- To learn about hems and Fullness.
- To enable the students in basic garment construction details.
- To gain knowledge about to organize the garment unit.

UNIT- I: SEWING EQUIPMENT**9 Hrs**

Sewing machines- parts and their functions, care and maintenance, tools used for measuring, marking, cutting and pressing.

UNIT-II: SEAMS AND SEAM FINISHES**9Hrs**

Seams – definition, common seams used in stitching – seam finishes- definition, types- pinked, edge stitched, double stitch, overcast, herringbone finished seam and bound seam edge finish. Seam defects and remedies.

UNIT-III: FACING, HEMS AND FULLNESS**9Hrs**

Facings - bias facings, shaped facing and decorative facing. Binding - single bias binding, double bias binding. Hems- definition, types- stitched hem, turned hem, seam binding hem finish, catch stitched hem, narrow machine stitched hem. Fullness- types - darts, tucks, pleats, flares and godets, gathers, frills and ruffles

UNIT-IV: POCKETS, PLACKETS AND FASTNERS**9Hrs**

Pockets-types - patch pocket, bound pocket, pocket in a seam, front hip pocket. Plackets, definition, types - inconspicuous plackets and conspicuous plackets. Fasteners –types – buttons & button hole, snaps & press buttons, hooks & eyes, zipper, eyelets & cord.

UNIT-V: YOKES, SLEEVES AND COLLARS

9Hrs

Yokes – definition, types – yoke with fullness, yoke without fullness, yoke supporting/releasing fullness. Sleeves- definition, types -plain, puff at top, bottom, bishop, bell and circular. Collars -definition, types - peter pan, scalloped, sailor, full shirt collar, open collar , shawl collars. Stand collar and Chinese collar.

COURSE OUTCOME:

1. List the name of sewing machineries parts. (k1)
2. Classify the cutting technology and equipments used for cutting. (k2)
3. Classify the sewing machines. (k2)
4. Explain about the care and maintenance of the sewing machines. (k2)
5. Define the garment finishing. (k1)

TEXT BOOK:

“Sewing Techniques” - Study material prepare by the department.

BOOKS FOR REFERENCES:

1. The complete Book of Sewing, Betsy Hosegood, Dorling Kindersley limited, London, 2006.
2. The practical Encyclopedia of Sewing, Dorothy Wood, Anness Publishing, 2007
3. Fashion Production Terms, Debbie Ann Gioello, Fair Child Publications, New York, 1979
4. Draping and Pattern Making for Fashion Design, Kamal Khurand, Sonali Publications, New Delhi, 2012.
5. Clothing and Textiles, Swathi Bhargava, Shree Niwas Publications, Jaipur,2010.

SEMESTER-I
18BAF1C3P
APPAREL DESIGNING AND SKETCHING - PRACTICAL

Credits	:	6	Max Marks	:	100
Hours/Week	:	6	Internal Marks	:	20
Total Hours	:	90	External Marks	:	80

OBJECTIVES:

- To gain knowledge about the elements of art and principles of design applied in different area.
- To understand different colors moods and their meaning.
- To illustrate basic techniques of sketches and fashion figures in different method
- To know the sketching of different style of dresses and ornaments and name of the accessories.

I. PREPARE THE FOLLOWING CHARTS

- Prang Color Charts **4 Hrs**
- Value Chart **2 Hrs**
- Intensity Chart **2 Hrs**

II. ILLUSTRATE APPAREL DESIGN FOR THE ELEMENTS OF DESIGN

- Line **3 Hrs**
- Colors **3 Hrs**
- Texture **3 Hrs**
- Shape **3 Hrs**
- Size **3 Hrs**

III. ILLUSTRATE APPAREL DESIGN FOR THE PRINCIPLES OF DESIGN

- Balance **2 Hrs**
- Harmony **2 Hrs**
- Emphasis **2 Hrs**

- Proportion **2 Hrs**
- Rhythm **2 Hrs**

IV. ILLUSTRATE APPAREL DESIGN FOR THE COLOUR HARMONY

- Monochromatic Colour Harmony **2 Hrs**
- Analogous Colour Harmony **2 Hrs**
- Complimentary Colour Harmony **2 Hrs**
- Double Complimentary Colour Harmony **2 Hrs**
- Split Complimentary Colour Harmony **2 Hrs**
- Traid Colour Harmony **2 Hrs**

V. PREPARE SKETCHES FOR THE FOLLOWING

1. Free hand drawing. **3Hrs**
2. Basics of shading. **2Hrs**
3. Fashion figure-8 head theory. **2Hrs**
4. Fashion figure-10 head theory. **2Hrs**
5. Facial features-Eyes, Nose, Lips, Ears. **2Hrs**
6. Sketching Different postures- Face, Hands, Legs. **3Hrs**
7. Sketching Different poses of fashion figure (women and men) **2Hrs**

VI. ILLUSTRATE AND SHADE THE FOLLOWING WITH SUITABLE SHAPE & SIZE

8. Sketching Different types of collars **2Hrs**
9. Sketching Different types of sleeves **2Hrs**
10. Sketching Different types of neck lines **2Hrs**
11. Sketching Different types of skirts **2Hrs**
12. Sketching Different varieties of ladies tops **2Hrs**
13. Sketching Different types of kid's dresses-girls. **2Hrs**

14. Sketching Different types of kid's dresses-boys.	2Hrs
15. Sketching Different types of salwar kameez with fashion figure.	2Hrs
16. Sketching figures for casual wear (women and men).	2 Hrs
17. Sketching figures for formal wear (women and men).	2 Hrs
18. Sketching figures for formal wear (women and men).	3Hrs
19. Different types of accessories-Bags, Foot wear, Hats, Bows, Belts & shoes.	3Hrs
20. Different types of ornaments- Traditional, Modern and Antique.	3Hrs

COURSE OUTCOME:

1. Illustrate apparel designs for elements of designs. (k2)
2. Demonstrate the apparel using colour harmony and types of charts. (k3)
3. How to Sketch the basic shadings and techniques and fashion figures. (k2)
4. Sketch the human body in proportions relevant to fashion illustration. (k2)
5. Creating quick sketches of clothing items on the human body. (K6)

SEMESTER-I
18BAF1C4P
SEWING TECHNIQUES – PRACTICAL

Credits	:	6	Max Marks	:	100
Hours/Week	:	6	Internal Marks	:	20
Total Hours	:	90	External Marks	:	80

OBJECTIVES:

- To create skilled work force for working in garments manufacturing Industry.
- To acquire knowledge and understand about fundamentals of sewing.
- To gain about the knowledge about the Basic garment Techniques.
- To Identify about the components in garment construction.

1. SEAMS

9 Hrs

- a) Plain seam
- b) Top stitched seam
- c) Felt seam
- d) French seam
- e) Piped seam
- f) Mantua maker's seam
- g) Lapped seam

2. SEAM FINISHES

9 Hrs

- a) Turned Under seam finish
- b) Overcast-Closed seam finish
- c) Overcast-Opened seam finish
- d) Pinked seam finish
- e) Herring bone finish seam
- f) Bound seam edge finish

3. HEMS	8 Hrs
<ul style="list-style-type: none"> a) Faced hem b) Edge stitched hem c) Band hem. d) Mitered hem. 	
4. FULLNESS	10 Hrs
<ul style="list-style-type: none"> a) Darts b) Tucks c) Pleats d) Gathers e) Frills f) Godets g) Flares 	
5. CASING	8 Hrs
<ul style="list-style-type: none"> a) Casing with Drawstring b) Casing with elastic c) Casing with Heading 	
6. FACING	8 Hrs
<ul style="list-style-type: none"> a) Biased facing b) Shaped facing c) Decorative facing d) Binding e) Piping 	
7. PLACKETS	10 Hrs
<ul style="list-style-type: none"> a) Continuous placket b) Zippered placket c) Tailor placket d) Double piece placket 	

8. POCKETS

8 Hrs

- a) Patch
- b) Bound pocket
- c) Pocket in a seam

9. COLLARS

10 Hrs

- a) Pieter pan collar
- b) Convertable collar
- c) Mandarin collar
- d) Sailor collar

10. SLEEVES

10 Hrs

- a) Plain sleeve
- b) Puff Sleeve
- c) Raglan sleeve
- d) Kimono sleeve

COURSE OUTCOME:

1. Estimate about the Fundamentals components of Garment construction (k5)
2. Demonstrate with the elements for Garment Decoration such as Fullness (k2)
3. Comparison about Garment casing and facing (k5)
4. Construct various forms of Plackets and Pockets (k3)
5. Categorize about the different types of Sleeves (k4)

**SEMESTER-I
18BAF1C5I
INTERNSHIP**

Credits	:	6	Max Marks	:	100
Hours/Week	:	-	Internal Marks	:	20
Total Hours	:	180	External Marks	:	80

OBJECTIVES:

- To gain knowledge in sketching
- To experiment with different types sketching using elements and principles of design.
- To know about Portfolio presentation.
- To discover the processing from Retail store/boutique/Garment unit.

INSTRUCTIONS:

- The student has to visit Retail store/Boutique/Garment unit
(or)
- Prepare a portfolio presentation using by sketching of the following:
- List of garments to illustrate

a) Apparel components	-Collars, Sleeves, Necklines
b) Fullness	- Tucks, Pleats
c) Elements of Design	-Line, Shape, Colour, Texture, Size
d) Principles of design	-Balance, Harmony, Emphasis, Proportion, Rhythm
- Duration -36 days
- Period-By end of I semester.
- Submission of report and mark statement in the prescribed format during last week of 1st semester.
- Report will be evaluated by-guide under viva voice examination.

COURSE OUTCOME:

1. Show the knowledge about Working environment by giving real-time exposure in the Industry (k2)
2. Demonstrate the various opportunity in the Boutique/retail store (k3)
3. Explain the students to relate their theoretical knowledge with the application domain of the garment industry (k2)
4. Illustrate the different styles of garment(k2)
5. Interpret the knowledge about computer aided designing (k2)

**SEMESTER-I
18BCN1VE
VALUE EDUCATION**

Credits	:	2	Max Marks	:	100
Hours/Week	:	2	Internal Marks	:	-
Total Hours	:	30	External Marks	:	100

OBJECTIVES:

- To educate the students on various concepts of values and to develop ethics in them and also build their personality.

UNIT-I: PURPOSE AND PHILOSOPHY OF LIFE**6Hrs**

Life - Philosophy -Basic needs, Safety measures, Ethics, and Wisdom of perfection stages. Law of nature – Unified force, Cause and effect system. Education – Nonviolence, Five-fold moral culture. Protecting, nature.

UNIT-II: GREATNESS OF LIFE FORCE AND MIND**6Hrs**

Maintaining youthfulness, Bio-magnetism and body, food-transformation into seven minerals, reasons for hunger, circular movement of life force, mind-development of mind in ten stages, mental frequency, meditation –benefits.

UNIT-III: INDIVIDUAL QUALITIES**6Hrs**

Indian Culture – Four structures – Spiritually guided young age, Family life, Introspection, service. Analysis of thought, six roots for thoughts, Practical technique for analysis of thoughts.

Desire – Moralization and analysis of desire. Anger - Method of neutralization of anger. Benefits of blessings and greatness of friendship. Love and Compassion.

UNIT-IV: HUMAN RIGHTS**6Hrs**

Concept –characteristics – Functional principles – Classification – Theories of human rights – legal theory – Social theory – Economic theory. Human duties.

UNIT-V: ANTI-CORRUPTION

6Hrs

Causes, Anticorruption measures in India – CBI, Santhanam Committee's recommendations – CVC (Central Vigilance Commission) – functions – LOKPAL – Salient features of LOKPAL bill 2001-Lokayukta, Right to Information Act-advantages.

COURSE OUTCOME

1. Impart the purpose and meaning of life.
2. Understand basic culture and individual qualities of human beings.
3. Give awareness on human rights and anti-corruption.
4. Strengthen the sense of commitment to values in practical life.

RECOMMENDED TEXT BOOK:

1. Value Education - Jamal Mohamed College Publication.

BOOKS FOR REFERENCES:

1. Value education for health, happiness and harmony – The world community service centre, vethathiri publications.
2. Philosophy of universal magnetism (Bio-magnetism, universal magnetism) – The world community service centre, vethathiri publications.
3. Thirukkural with English translation of Rev.Dr.G.U.Pope – Uma publications 156, serfoji nagar, medical college road, Thanjavur – 613 004.
4. Public Administration (2005) – Vishnoo bhaaqan vidya Bhutan, S.Chand and company.Ltd.

SEMESTER-II
18BAF2C6
APPAREL TECHNOLOGY AND ENTREPRENEURSHIP

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	25
Total Hours	:	45	External Marks	:	75

OBJECTIVES:

- To gain knowledge about spreading, marking and cutting techniques.
- To study about the sewing machineries, stitching mechanisms.
- To know the specialized machines used in garment industry.
- To gain an in-depth knowledge about starting New Business and about managing small and medium enterprises and brands.

UNIT-I: ORGANIZATION OF GARMENT UNIT

10Hrs

Organization of garment manufacturing unit. Spreading – definition, functions, types-hand and machine spreading. Marking– methods, efficiency, requirements. cutting technology - definition, function, equipments – straight knife, band knife, round knife, die cutters, notches, drills and thread marker, computer controlled cutting machine.

UNIT-II: SEWING MACHINERIES

9Hrs

Sewing machineries-classification of sewing machines, parts of the machines, functions of single needle machine, over-lock machine, bar-tacking machine, buttonhole machine, button fixing machine, feed-of-arm machine, blind stitching machine, fabric examining machine. Care and maintenance, common problems and remedies.

UNIT-III: STITCHING MECHANISMS& SPECIAL ATTACHMENTS

8Hrs

Stitching mechanisms- needle, bobbin and bobbin case, bobbin winding, loops and loop spreader, threading finger, upper and lower threading, auxiliary hooks, tension disc-upper and lower thread tension, stitching auxiliaries - pressure foot and its types.

UNIT-IV: ENTREPRENEUR CONCEPT - OVERVIEW

8 Hrs

Entrepreneur – Entrepreneurship – Characteristics – Functions & Types - Entrepreneur Development – Role in Entrepreneur Development - Women entrepreneurship – Problems & Issues – Development of women entrepreneur - Rural entrepreneurship – Need – Development steps.

UNIT- V: AGENCY SUPPORT TO ED AND BRANDING

10 Hrs

Institutional finance to Entrepreneur - lease financing and hire purchase - institutional support to Entrepreneur – Need – NSIC – SIDO – SISI- SSICS – DIC - Taxation benefits to small scale industry.

Creating brand – role, scope, defining. Brand equity- Building brand equity-managing-devising-consumer equity.

COURSE OUTCOME:

1. Explain about Spreading, Marking and Cutting techniques. (k2)
2. Develop knowledge about sewing machines and stitching mechanisms. (k3)
3. Identify the special attachments in sewing machines. (k3)
4. To adapt new concepts of entrepreneurship.
5. Analyzing the agency support to ED (k4)

TEXT BOOK:

“Apparel Technology and Entrepreneurship”-Study material prepared by the department.

BOOKS FOR REFERENCES:

1. Betsy Hose good, The Complete Book of Sewing, Dorling Kindersley Limited, London, 2006.
- 2.The Technology of Clothing Manufacture, David J. Carr and Latham’s, 2008.
- 3.Mary Mathews, Practical construction-Part I& II, Cosmic Press, Chennai, 1974.
4. S.S. Khanka, “Entrepreneurial Development”, S.Chand& Company Ltd., Edn.2001, New Delhi.
5. Saravanavel .P, Entrepreneurial Development, Ess Pee Kay Publishing House Edn. 1997, Chennai.

SEMESTER II
18BAF2C7
FIBER TO FABRIC

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	25
Total Hours	:	45	External Marks	:	75

OBJECTIVES:

- To gain the basic knowledge of textiles.
- To learn the properties and manufacturing of different fibers.
- To enable the students to know about basic manufacturing fabrics.
- To learn the yarn spinning process.

UNIT-I: FIBERS CLASSIFICATION**9Hrs**

Introduction of Fibers -Classification and properties of fibers- Natural- Vegetable, Animal and Mineral Fibers - Manmade fibers - Synthetic, Regenerated Fibers - Primary properties - Secondary properties.

UNIT-II: FIBER MANUFACTURING PROCESS**9Hrs**

Manufacturing Process - cellulose fiber-Cotton, Linen, Jute. Protein fibers – silk, wool.

UNIT-III: MAN MADE FIBERS**9Hrs**

Manmade fibers- nylon, polyester, acrylic. Regenerated fibers- viscose rayon, acetate rayon. Properties of man-made fibers.

UNIT-IV: YARN MANUFACTURING PROCESS**9Hrs**

Yarn - classification. Cotton yarn manufacturing process - blending, opening and cleaning, carding, doubling, combing, drawing, roving, spinning.

UNIT-V: SPINNING TECHNOLOGY**9Hrs**

Spinning - Definition, Types of Spinning - Chemical Spinning- Melt spinning, Dry spinning, Wet spinning. Mechanical Spinning- Ring Spinning and Open End Spinning. Advantages and Disadvantages of spinning.

COURSE OUTCOME:

1. Define the basic fibers (k1)
2. Classify the fibers and its types (k2)
3. Compare to the natural fibers and manmade fibers. (k2)
4. Define the methods of yarn manufacturing (k1)
5. Utilize the recent techniques in processing (k3)

TEXT BOOK:

‘Fiber to fabric’ -Text book prepared by the department.

BOOKS FOR REFERENCES:

1. Corbman .B.P, Textile – Fiber to Fabric Third Edition, International Students Edition, McGraw Hill Book Co, Singapore, 1985.
2. Gupta et al, Text Book of Clothing and Textiles and Laundry, 5th Edition, Kalyani Publishers, New Delhi, 2006.
3. J. GORDON COOK, “Hand Book Of Textile Fibers” VOL-II Manmade Fibers, Wood Head Publishing, 2005.
4. SEEMA SEKHRI,“Fabric science” Fundamentals to finishing.
5. “Textile Spinning, Weaving, Finishing& Printing” By NIIR Board Published by AJAY K,R GUPTA for Asia Pacific Bussiness Press.

SEMESTER-II
18BAF2C8P
APPAREL DESIGNING FOR GIRL'S WEAR- PRACTICAL

Credits	:	6	Max Marks	:	100
Hours/Week	:	6	Internal Marks	:	20
Total Hours	:	90	External Marks	:	80

OBJECTIVES:

- To illustrate different designs for girls wear.
- To learn the drafting procedures for girls wear.
- To construct basic and modify pattern techniques.
- To suggest suitable fabrics, colors and designs for all patterns.

Design and construct the following Garments

1. Baby Bed/Laytee.	7 Hrs
2. Infant wears- Bib, Panty and Jabla.	7 Hrs
3. A-line Frock.	8 Hrs
4. Summer Frock-with Suspenders at Shoulder Line, Without Sleeve.	8 Hrs
5. Yoke frock- with Puff Sleeve, Pleated skirt, Circular skirt	10 Hrs
6. Pinafore – fit waistline/pleated.	10 Hrs
7. Girl's shirt- with ruffles/ collar/ elbow sleeve.	10 Hrs
8. Middy- pleated/belt attached/hook attached.	10 Hrs
9. Middy top (traditional) - puff sleeve/shrink at waistline/slit open.	10 Hrs
10. Party wear – princess line / yoke attached.	10 Hrs

COURSE OUTCOME:

1. Illustrate different designs and styles for girls. (k2)
2. Construct and rephrase basic and modify patterns. (k3)
3. Examine suitable fabrics, colors and designs for patterns. (k4)
4. Construct the garment as per the pattern and drafting procedure. (k3)
5. Summarize the cost calculation for the garment (k2)

SEMESTER-II
18BAF2C9P
COMPUTER AIDED FASHION DESIGNING – PRACTICAL

Credits	: 6	Max Marks	: 100
Hours/Week	: 6	Internal Marks	: 20
Total Hours	: 90	External Marks	: 80

OBJECTIVES:

- To know about basics in computerized design creation.
- To gain knowledge in creating motifs using Computer Aided Designing.
- To illustrate different types of garments using Computer Aided Designing.
- To create fashionable logos and labels using Computer Aided Designing.

CREATE THE FOLLOWING DESIGNS

1. **Motifs** **15 Hrs**
 - a. Create an Embroidery Design for Blouse
 - b. Create a design using elements of design for T-Shirt.
 - c. Create a design using principles of design for Home Furnishing.
2. **Create the following Children's Garments** **15 Hrs**
 - a) Jabla
 - b) Frock
 - c) Sherwani
3. **Create the following Women's Garments** **15 Hrs**
 - a. Maxi .
 - b. Princess cut Top and Middi.
 - c. House Coat
 - d. Nighty
4. **Create the following Men's Garments** **15 Hrs**
 - a. SB Vest
 - b. T-Shirt
 - c. Shirt

d. Kurtha

e. Pant

5. Logo

a. Create a Logo for the Indian Apparel Branded Company.

15 Hrs

b. Create a Logo for the International Apparel Branded Company

6. Care Label

a. Create a Care Label for Dry Cleaning.

15 Hrs

b. Create a Care Label for Tumble drying.

COURSE OUTCOME:

1. Illustrate the basic small designs as motifs (k2)
2. Construct the garments for children's using suitable Croquis. (k3)
3. Design the women's garment with suitable texture (K6)
4. Develop the Textured garments for men(k3)
5. Formulate the familiar logos for Indian and International Apparel Branded company (K6)

**SEMESTER-II
18BAF2C10I
INTERNSHIP**

Credits	:	6	Max Marks	:	100
Hours/Week	:	-	Internal Marks	:	20
Total Hours	:	180	External Marks	:	80

OBJECTIVES:

- To get exposure in textile and apparel industries.
- To observe the spinning process of yarn.
- To learn the needs CADD software in apparel industry.
- To gain knowledge of various opportunities in apparel industry.

INSTRUCTIONS:

- The student has to visit and prepare the report for Textile production unit/ Spinning unit/Retail store/Boutique (**or**)
- Prepare Portfolio presentation – Illustrate five designs for children’s apparel using CADD software
- Duration 36 days.
- Period-by end of IInd semester.
- Submission of internship report and mark statement in the prescribed format during last week of IInd semester.
- Report will be evaluated by-guide under viva voice examination.

COURSE OUTCOME:

1. Show the knowledge about Working environment by giving real-time exposure in the Industry
2. Demonstrate the various opportunities in the designing field (k3)
3. Explain the students to relate their theoretical knowledge with the application domain of the apparel industry (k2)
4. Experiment with different styles of garment illustrating using CAD software (k3)
5. Interpret the knowledge about computer aided designing (k2)

SEMESTER-II
18BCN2ES
ENVIRONMENTAL STUDIES

Credits	:	2	Max Marks	:	100
Hours/Week	:	2	Internal Marks	:	--
Total Hours	:	30	External Marks	:	100

UNIT-I: THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES **6Hrs**

Definition-scope and importance - awareness

UNIT: II NATURAL RESOURCES **6Hrs**

Renewable and Non-Renewable Sources
 Natural resources: Forest -water-mineral-food-energy-land. Environmental pollution:air-water-soil-marine-noise

UNIT:III ECOSYSTEM **6Hrs**

Concept of ecosystem-structure and function-producers consumers & decomposers-energy flow in ecosystem-ecological succession-food chain,foodweb,and ecological pyramid-types of ecosystem-forest ecosystem-grassland ecosystem-dessert ecosystem-aquatic ecosystem.

UNIT: IV BIODIVERSITY AND ITS CONSERVATION **6Hrs**

Introduction and definition-conservation value of biodiversity-biodiversity at global level-india-a mega diversity zone-hotspots-threats to biodiversity

UNIT: V HUMAN POPULATION AND THE ENVIRONMENT **6Hrs**

Population growth,variation among nations-population explosion-human right and environment-value education in environment-HIV/AIDS and environment-women and child welfare and the environment-role of IT in environment and human health.

TEXT BOOK:

1. Environmental studies UGC syllabus Dr.k.kumaraswamy, M.sc., Ph.d.,

SEMESTER-III
18BAF3C11
FABRIC MANUFACTURING TECHNOLOGY

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To know about different methods of fabrication
- To understand about weaving and loom mechanism.
- To gain knowledge about knitting.
- To know the uses of non woven.

UNIT-I: WEAVING**12Hrs**

Weaving- Introduction, Classification. Loom - Introduction, Classification of looms, Basic loom mechanisms, Parts and functions of a loom, Preparation of Weaving- Warping, Sizing, Looming. Primary motion, Secondary motion, Auxillary.

UNIT-II: KNITTING TERMS AND MACHINE DESCRIPTION**12Hrs**

Knitting – Definition, Classification, General terms of knitting, Elements of Knitting. Machine description – frame – drive – needles –loop forming sequence of latch, spring bearded, compound needles – sinkers - sinkers operation- cylinder – dial – cams- creels – feeders- fabric spreader – take down and winding mechanism.

UNIT- III: WEFT KNITTING & WARP KNITTING**12Hrs**

Weft knitting – Classification. Basic structure and properties of weft knit structures – single jersey or plain, rib, interlock, purl. Warp knitting – Classification. Basic structure and properties of warp knit structures – tricot, raschel, simplex fabrics.

UNIT-IV: NON WOVEN**12Hrs**

Nonwoven – Definition, Web Production- Dry laid fiber webs, Cross-laid webs, Wet laid fiber webs, and Spun laid, Spun lace webs, Melt blown fiber webs. Techniques for Preparing Nonwovens – Fusing, Bonding, Lamination. End uses of Nonwoven.

UNIT-V: OTHER METHODS OF FABRICATION

12Hrs

Felting, Net like structure. Fabric from yarns-Braids, Lace, Handmade lace-Needle point lace, Bobbin lace, crocheted lace, Battenberg lace. Machine made lace-Leavers lace, Raschel lace.

COURSE OUTCOME:

1. Explain the methods of fabric formation of weaving, Knitting and Nonwoven (k2)
2. Classify the types of weaves and knitting (k4)
3. Demonstrate the weaving and loom's parts and functions (k3)
4. Interpret the knitting terms and machine functions (k2)
5. Discover the techniques for preparing non woven and uses of non woven(k4)

TEXT BOOK :

'Fabric Manufacturing Technology'-Study Material prepared by the Department.

BOOKS FOR REFERENCES:

1. M.G. Mahadevan, Textiles Spinning, Weaving and Designing, First Edition, Abhishek Publications Chandigarh, 2005.
2. W.S. Murphy, Textile Weaving and Design, First Indian Edition, Abhishek Publications Chandigarh, 2007.
3. Sara J.Kadolph, Textiles, 10th edition, Dorling Kindersley India pvt.Ltd, India, 2008.
4. Spencer.D.J, Knitting Technology, Woodhead Publishing Ltd, New Delhi, India, 2011.

SEMESTER-III
18BAF3C12
FABRIC STRUCTURE AND DESIGN

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	25
Total Hours	:	45	External Marks	:	75

OBJECTIVES:

- To know to identify the different types of fabrics.
- To enable students to prepare point paper designs for basic and figured weaves.
- To study about structure of woven fabrics.
- To explain about design, draft and peg plan for various weaves

UNIT-I: WOVEN DESIGN FUNDAMENTALS**9Hrs**

Introduction, Classification of woven structures, Methods of weave representation, Weave repeat, basic elements of a woven design, Types of draft plans. Weaves – Plain, Rib, Twill, Satin and Sateen. Uses of plain weaves.

UNIT- II: HEAVY FABRICS**9Hrs**

Honey Comb – Features of honeycomb, Types- Ordinary, Brighten. Quality particulars of honeycomb weave. Weaves – Huck a Back and its features. Crepe and its features. Mock Leno and its features. Uses of the above weaves.

UNIT-III: FIGURED FABRICS**9Hrs**

Extra warp and extra weft figuring – single and two colours, Difference between extra warp and extra weft figuring .Uses of the above weaves.

UNIT-IV: PILE FABRICS**9Hrs**

Pile Fabric- Classification of Pile Fabric-Weft pile fabrics and Warp pile fabric.Types of weft Pile fabrics –Plain velveteens, Weft plushes, Corded Velveteens, Figured velveteens. Warp Pile Fabric –Methods of producing warp pile fabrics-Variety types of Terry pile designs.. Uses of the above weaves.

UNIT-V: DOUBLE CLOTH**9Hrs**

Double Cloth- Classification of Double Cloths, Self Thread Stitching – Stitching from Face to back, Back to Face and Combination. Uses of the above weaves.

COURSE OUTCOME:

1. Create designs, draft and peg plan for the types of weave. (K6)
2. Discuss the feature of different weaves. (K6)
3. Analyze the definitions for various types of weaves. (k4).
4. Explain about heavy fabrics. (k2)
5. List out uses of types of weave. (K6)

TEXT BOOK:

“Fabric Structure and Design “- Study material prepared by the department.

BOOKS FOR REFERENCES:

1. Textiles Spinning, Weaving and Designing, M.G. Mahadevan, First Edition, Abhishek Publications Chandigarh, 2005.
2. Textile Weaving and Design, W.S. Murphy, First Indian Edition, Abhishek Publications, Chandigarh, 2007.
3. Fabric structure and design, N.Gokarneshan, New age International (P) limited, 2004.
4. The complete Technology book on Textile spinning, Weaving, Finishing and Printing, Asia pacific business press, Delhi.
5. Textile fiber to fabric, 6th edition, McGraw Hill International editions, Bernard P. Corbman, 1983.

SEMESTER-III
18BAF3C13
CHRONICLES OF TEXTILES AND COSTUMES

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	25
Total Hours	:	45	External Marks	:	75

OBJECTIVES:

- To learn the traditional costumes and Embroidery of India.
- To know the woven textile and dyed textile.
- To learn the traditional embroidery of India.
- To learn different techniques and rules in a different way.

UNIT-I: INTRODUCTION TO INDIAN COSTUMES**10Hrs**

Indian costume – introduction, Indian costumes from the earliest times to the beginning of the historical period-indus valley civilization costumes, indo aryans and vedic ages, mauryan and sunga period, satavahana period, kushan period , mughal period.

UNIT- II: TRADITIONAL COSTUMES OF INDIA**9 Hrs**

Introduction to traditional Indian costumes - Costumes of Punjab, Himachal Pradesh, Uttar Pradesh, Rajasthan, Jammu and Kashmir, Madhya Pradesh, and Gujarat.

UNIT-III: EMBROIDERIES OF INDIA**9Hrs**

Kasida of Kashmir, Kantha of Bengal, Chambarummal of Himachal Pradesh, Chickenkari of Uttar Pradesh , Pulkhari of Punjab, Kasuti of Karnataka, Kutch of Gujarat.

UNIT-IV: TRADITIONAL WOVEN TEXTILES**9Hrs**

Introduction to woven textiles of India – Jammu and Kashmir-Jamiavar ao kamikar,Do-rukha, Himachal Pradesh – Kullu shawls,Tamil nadu – Kanjiwaram , Gujarat and orisa – Patola and itkat, Maharashtra – Pithani , Amru and himru, Uttar Pradesh – Brocade.

UNIT-V: TRADITIONAL PRINTED AND DYED TEXTILES**8Hrs**

Printed textiles – Kalamkari, Block printing, Roghan printing .**printed textiles** - Mata-mi-Pachedi, Pabuji-ka-Pad. **Dyed textiles** – Ikat, Patola, Bandhani, Laharia, Mashru.

COURSE OUTCOME:

1. Appreciate the finer nuances of embroidery. (k1)
2. Classify the regional embroideries of India. (k2)
3. Identify a specific embroidery style of India on the basis of colours, motifs, layouts. (k3)
4. Identify the influencing factors for development and evolution of a specific embroidered textile. (k5)
5. The evolution of embroidered textiles over a period time.(k5)

TEXT BOOK:

“Chronicles of Textiles and Embroidery” – Study Material prepared by the Department.

BOOKS FOR REFERENCES:

1. GovindSadashivGhurye, “Indian Costume”, Popular Prakashan Publication, 1966.
2. Ritu Kumar, “Costumes and Textiles of Royal India Antique Collectors”, Club, 2006.
3. ArabindaBiswas, “Indian Costumes”, Ministry of Information and Broadcasting Publication Division, 1985.
4. ZamilaBrijBhushan, “Indian Embroidery”, Ministry of Information and Broadcasting Publications Division, Government of India, 1990.
5. Dr. Paul bhatnagar,”Traditional Indian costumes and textiles” Abhishek publications, Chandigarh (India), 2004

SEMESTER-III
18BAF3C14P
APPAREL DESIGNING FOR BOY'S WEAR - PRACTICAL

Credits	: 5	Max Marks	: 100
Hours/Week	: 5	Internal Marks	: 20
Total Hours	: 75	External Marks	: 80

OBJECTIVES:

- To illustrate different designs for boys wear.
- To learn the drafting procedures for boys wear.
- To construct basic and modify pattern techniques.
- To examine suitable fabrics, colors and designs for all patterns.

Design and construct the following Garments using specified features

- | | |
|--|--------------|
| 1. Baba suit / romper. | 7 Hrs |
| 2. Boys Shirt-Open Collar/ Pocket / Without Yoke. | 9 Hrs |
| 3. Knickers - with elastic at waist. | 8 Hrs |
| 4. Dhoti pant- pleats, elastic/ waist belt. | 8 Hrs |
| 5. Churidhar Patiala- fullness at top/ tightly fitted lower leg, casting at waist. | 9 Hrs |
| 6. Night wear- open/round neckline /pocket, full/half pant. | 8 Hrs |
| 7. Sherwani- flared at hip/pocket/placket. | 9 Hrs |
| 8. Kurta- pocket/stand collar/placket. | 9 Hrs |
| 9. Shorts- waist belt/ side pocket/ pleats, broad bottom. | 8 Hrs |

COURSE OUTCOME:

1. Illustrate different designs and styles for boys. (k2)
2. Construct and rephrase basic and modify patterns. (k3)
3. Examine suitable fabrics, colors and designs for patterns. (k4)
4. Construct the garment as per the pattern and drafting procedure. (k3)
5. Summarize the cost calculation for the garment (k2)

SEMESTER-III
18BAF3C15P
FABRIC STRUCTURE AND DESIGN-PRACTICAL

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	20
Total Hours	:	60	External Marks	:	80

OBJECTIVES:

- To know how to identify the different types of fabrics.
- To enable students to prepare point paper designs for basic weaves
- To summarize the knowledge about fancy weaves.
- To know the use of these weaves.

Identify the following weave design and draft a peg plan for the same:

1. Plain Weave	6 Hrs
2. Twill Weave	6Hrs
3. Satin	6Hrs
4. Sateen	6Hrs
5. Honey Comb Weave	6Hrs
6. Huck a Back Weave	6Hrs
7. Jacquard Weave	6Hrs
8. Dobby Weave	6Hrs
9. Extra Warp Figuring	6Hrs
10. Extra Weft Figuring.	6Hrs

COURSE OUTCOME:

1. Define basic concept of making point paper for the basic and fancy weaves (k1)
2. Identify the different types of weaves (k3)
3. Develop peg plan and point paper for the basic, fancy weaves (K6)
4. Discover the purpose, uses of basic and fancy weaves (k4)
5. Explain the different fabric structure in textile industry (k2)

SEMESTER-III
18BAF3C16P
HAND EMBROIDERY - PRACTICAL

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	20
Total Hours	:	45	External Marks	:	80

OBJECTIVE:

- To understand the different types of embroidery stitches.
- To acquire practical knowledge in advance and surface embroidery.
- To know the traditional embroidery of India.
- To understand how to trace a design and convert to fabric.

1. BASIC HAND STITCHES**5Hrs**

1. Running stitch
2. Back stitch

2. BASIC EMBROIDERY STITCHES**10Hrs**

3. Chain stitch and its variations
4. Stem stitch
5. Lazy daisy stitch
6. Blanket or buttonhole stitch
7. Satin stitch and its variations
8. Romanian
9. Long and short
10. Fish bone
11. Bullion knot
12. Feather
13. Herring bone

4. OTHER EMBLISHMENT WORK

15Hrs

14. Bead work
15. Ribbon embroidery
16. Patch work
17. Flower making
18. Tassels and fringes

5. TRADITIONAL EMBROIDERY STITCHES

15Hrs

19. Chikankari of Uttar Pradesh
20. Phulkari of Punjab
21. Kutch of Gujarat
22. Kasuti of Karnataka
23. Kantha of Bengal
24. Shisha or mirror work of Rajasthan

6. PROJECT WORK

Prepare any sample using mixture of these stitches.

- a. Saree/ Salwar/ Shawl or blouse.

COURSE OUTCOME:

1. Choose capable of designing embroidery by different stitches. (k3)
2. Enable the trainees to make creative designs in embroidery and prepare dresses by using those embroidery stitches. (k6)
3. Capable to identifying new opportunities in craft, textile art and fashion design markets.(k6)
4. Identify various color schemes and their application in dress making. (k3)
5. Elaborate the techniques of create the different stitch with hand. (k6)

**SEMESTER-III
18BAF3C17I
INTERNSHIP**

Credit	:	6	Max Marks	:	100
Hours/Week	:	-	Internal Marks	:	20
Total Hours	:	180	External Marks	:	80

OBJECTIVES:

- To gain knowledge in kids wear for both boy and girl.
- To learn different styles of garment.
- To design forecasting for kids wear.
- To know about fabric production sequence, spinning technology in textile industry.

INSTRUCTIONS:

- The student has to visit and prepare the report for fabric manufacturing industry/ spinning unit/weaving/knitting/ embroidery unit/Retail store/boutique
- (or)**
- Prepare Portfolio presentation – Design and construct the children’s apparel
 - Duration 36 days.
 - Period-by end of IIIrd semester.
 - Submission of internship report and mark statement in the prescribed format during last week of IIIrd semester.
 - Report will be evaluated by-guide under viva voice examination.

COURSE OUTCOME:

1. Explain the knowledge about Working environment by giving real-time exposure in the Industry (K2)
2. Demonstrate the various opportunity in the Apparel Industry (K3)
3. Explain the students to relate their theoretical knowledge with the application domain of the spinning unit/knitting/weaving (K2)
4. Experiment with various styles of garment construction for children (K3)
5. Develop skills about Work ethics, garment construction etc., (K6)

**SEMESTER-III
18BCN3SS
SOFT SKILLS DEVELOPMENT**

Credits	:	2	Max Marks	:	100
Hours/Week	:	2	Internal Marks	:	--
Total Hours	:	30	External Marks	:	100

OBJECTIVES:

- To develop positive psychological and physical outlook
- Enhance healthy interpersonal relationships
- Recognize opportunities and overcome threats
- Lead students towards self-actualization and social success

UNIT-I: COMMUNICATION SKILLS

Verbal and non-verbal communication – the active vocabulary – conversational etiquette – KOPPACT syndrome.

UNIT-II: EMOTIONAL SKILLS

Emotional intelligence – the five steps to emotional quotient – self awareness and regulation – empathy – social intelligence – stress management – coping with failures.

UNIT-III: FUNCTIONAL SKILLS

Using the tools of communicatory and emotional skills – resume writing – preparation of curriculum vitae – interview skills – acting the interview – group dynamics – mock interviews and group discussions.

UNIT-IV: INTERPERSONAL SKILLS

Synergising relationships – SWOT analysis – SOAR analysis – the social skills – time management – decision making – problem solving – prioritizing and implementation.

UNIT-V: PERSONALITY SKILLS

Leadership skills – attributes and attitudes – social leader vs the boss – critical and creative thinking.

LEARNING OUTCOMES:**AT THE END OF THE COURSE:**

1. Students optimize their life skills experience and create a personal growth plan.
2. They are conceptually grounded and practically oriented towards interpersonal and group relationships that evolve beyond academic achievements.
3. They are able to strategies their personality traits towards community immersion and ethical behavior.

BOOKS FOR REFERENCES:

1. Social intelligence: The new science of human relationships – Daniel Goleman; 2006.
2. Body language in the workplace – Allan and Barbara Pease; 2011.
3. Student's hand book: Skill genie – Higher education department, Government of Andhra Pradesh.

SEMESTER-IV
18BAF4C18
TEXTILE WET PROCESSING

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To gain knowledge on basic processing of textiles.
- To develop skills in dyeing of fabrics.
- To explain printing techniques and finishing process.
- To enable students on eco – friendly processing in textiles.

UNIT-I: INTRODUCTION TO WET PROCESSING **10 Hrs**

Preparatory processes: singeing, desizing, scouring, bleaching and mercerization, Degumming-Silk, Carbonization- Wool.

UNIT-II: DYEING **15 Hrs**

Definition – dyeing and dyes, classification of dyes-Natural Dyes, Synthetic Dyes, mordants and its types. Types of dyeing- Application of direct, basic, acid, reactive and disperse dyes. Methods of Dyeing - Yarn dyeing, Fabric dyeing .Advantages & Disadvantages of dyes.

UNIT-III: PRINTING **10 Hrs**

Printing- definition, Types of printing- direct, discharge, resist, flock, warp, khaki prints. Methods of printing methods - block printing, roller printing, screen printing, rotary printing, transfer and digital printing. Comparison between dyeing and printing.

UNIT-IV: FINISHING **15 Hrs**

Finishing - Definition, Importance of finishing, difference between finished goods and unfinished good, classifications. Special finishes - water repellent, antimicrobial, flame retardant, Stone Wash- Denim. Calendaring, sanforising, antcrease, flocking, napping and tufting.

UNIT-V: ECO FRIENDLY PROCESSING

10 Hrs

Problems faced by textile wet processing. Enzymes – meaning, enzymes used in textile industry. Enzymatic desizing, enzymatic scouring, enzymatic bleaching, bio polishing, degumming.

COURSE OUTCOME:

1. Select the basic processing for fabrics (k3)
2. Classify the dyes and its types (k2)
3. Define the methods and types of printing (k1)
4. Make use of the finishing techniques and special finishers (k1)
5. Utilize the recent techniques in processing (k3)

TEXT BOOK:

Textile Wet processing- Study material prepared by Department.

BOOKS FOR REFERENCES:

1. Palsingh.K.V, Elementary Idea of Textile dyeing, printing and finishing, Kalyani Publishers, 2009.
2. Kadolph .S.J, Textiles, Tenth Edition, Dorling Kindersley (India) Pvt. Ltd., 2006.
3. Corbman.B.P, Textile fiber to fabric, 3rd Edition, International students, Mc Grow Hill co, Singapore, 1985.
4. Smith J E _Textile Processing‘–Printing, Dyeing, Abhishek Publishing, 2003.
5. Murphy, W.S _ Textile Finishing‘Abhishek Publication, 2000

**SEMESTER-IV
18BAF4C19
EXPORT TRADE**

Credits	:	3	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To understand the international trade in garment industry.
- To study the import and export procedures.
- To know the required documents for export and import.
- To learn the tax and tariffs for international trade.

UNIT-I: OVERVIEW OF APPAREL & TEXTILE TRADE 9 Hrs

Need for international trade – features of international trade – advantages of international trade – problems of foreign trade. World trade in apparel and textiles, India’s position in world trade, trade restrictions on apparel and textiles.

UNIT-II: INTERNATIONAL TRADE DOCUMENTS 9 Hrs

Regulatory framework, foreign trade documents, regulatory documents, commercial documents, letter of Credits, contract terms and export documents.

UNIT-III: EXPORT AND IMPORT PROCEDURES 9 Hrs

Export procedures-getting established as an exporter, entering into export contract, execution of export order, post shipment procedures, export promotion measures, incentives and facilities to exporters. Import procedures-the import process, customs clearance for imports.

UNIT-IV: LOGISTICS AND SUPPLY CHAIN MANAGEMENT 9 Hrs

Introduction to logistics and supply chain management(SCM), integrated logistics system, managing supply and demand, supply chain strategies and implementation supply chain planning, global chain logistics-different modes of shipment.

UNIT-V: RECENT DEVELOPMENTS IN FOREIGN TRADE

9 Hrs

World Trade Organization (WTO) – Regional Trade Agreements – European Union – Current trends in International Trade – GATT – Government Programmes and incentives for apparel and textile exports.

COURSE OUTCOME:

1. Explain the International trade in garment industry(k2)
2. Analyze the International trade documents in textile industry(k3)
3. Assess the export and import documentation and procedures(k5)
4. Demonstrate the logistics and supply chain management in export trade (k2)
5. Show the recent developments in foreign trade (k2)

TEXT BOOK:

‘Export Trade’ – Study Material prepared by the Department.

BOOKS FOR REFERENCES:

1. DIANE Publishing, Company Textile Trade: Operations of the Committee for the Implementation of Textile Agreements (CITA) DIANE Publishing, 1996.
2. Thomas.E,Johnson, Donnal, Bade.L, “ Export/Import Procedures and Documentation”, AMACOM Div American Management Association, 2010.
3. Jeevanandam.C, Foreign Trade, 1st Edition, Sultan Chand and Sons, New Delhi, 2005.
4. Joshi.P, Apparel and Textile Exports, CBS Publishers, New Delhi, 2006

SEMESTER-IV

18BAF4C20

APPAREL MERCHANDISING AND MARKETING

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	25
Total Hours	:	45	External Marks	:	75

OBJECTIVES:

- To gain knowledge about marketing, merchandising, presentation and export marketing.
- To learn about environmental trends.
- To understand the national brands and private labels.

UNIT-I: MARKETING

9 Hrs

Marketing concepts -definition, apparel and fashion. Marketing - planning, apparel market, environment - micro and macro marketing, environment trends. Apparel market and segments.

UNIT-II: MERCHANDISING

9 Hrs

Merchandising - Definition, Types of merchandising. Merchandising as Business Function - Role of Merchandiser, Evolution, Merchandising Organization, Buying Preparation, Brand building-Introduction, strategies, image building, brand expansion, global trends National Brands vs. Private Labels.

UNIT-III: CONSUMER BEHAVIOUR IN APPAREL AND FASHION MARKET

9 Hrs

Consumer behavior in apparel and fashion market-fashion buyer-decision making- Psychological and sociological aspects- Product planning and development of new product. Apparel and fashion market practices and procedures.

UNIT-IV: MERCHANDISING PRESENTATION AND CUSTOMER RELATIONSHIP 9Hrs

Merchandising Presentation - Principles of Merchandising Presentation, Placement of Merchandise, Categories of Merchandise Presentation, Dominance Factors in Merchandising Presentation, Cross Merchandising .Retail merchandiser - trend analysis, forecast analysis. Customer relationship – Introduction, measuring customer relationship.

UNIT-V: EXPORT MARKETING AND DOCUMENTATION

9 Hrs

Export Marketing of Apparel, Prospects for Indian in Overseas Market, Globalization.

COURSE OUTCOME:

1. Analyze the fashion consumer and market trends. (k4)
2. Manage your own learning-evaluate your own progress as you work individually (or) in teams. (k5)
3. Use research skills and analysis methods in order to produce a range of fashion products relevant to set assignments. (k2)
4. Communicate the design development and research process effectively through verbal presentations. (K6)
5. Evaluate trends in the fashion industry and their impact on overall business operations. (k5)

TEXT BOOK:

“Apparel merchandising and marketing” - study material prepared by department

BOOKS FOR REFERENCES:

1. George.E.Belch, Michael.B.Belch, “Introduction to Advertising and Promotion”, – An Integrated Marketing Communication Perspective, Richard, Irwin, Inc., 1995.
2. Varma and Aggarwal, “Advertising Management”, Kingsbood – Educational Publishers, Delhi, 1997.
3. Chuter.A.J, “Introduction to Clothing and Production Management”, Om Books Services, New Delhi, 1995.
4. Laura L Bliss, Study Guide Visual Merchandising and Display III edition, Fairchild Publications, 1995
5. Gibson, G. Vedomani, Retail Management, Jaico Publishing House, Bangalore

**SEMESTER IV
18BAF4C21P
APPAREL DESIGNING FOR WOMEN'S WEAR – PRACTICAL**

Credits	: 5	Max Marks	: 100
Hours/Week	: 5	Internal Marks	: 20
Total Hours	: 75	External Marks	: 80

OBJECTIVES:

- To create different types of patterns for women's apparel.
- To suggest suitable fabrics, colors and designs for all patterns.
- To learn the drafting procedures for women's apparel
- To develop the drafting design for women's apparel.

Design and construct the following Garments:

- | | |
|---|-------------|
| 1. Middy-Variation in panel/ pleated skirt/ circular | 7Hrs |
| 2. Middy Top-With or without collar, sleeve variations | 7Hrs |
| 3. Full gown- Fashioned neck and attaching trimmings. | 7Hrs |
| 4. Kameez –Stright,Semi stiched,Bandani. | 7Hrs |
| 5. Salwar -Plain, Gathering at bottom, pleated | 7Hrs |
| 6. Pannelled top | 8Hrs |
| 7. Anarkali - paneled , Pleated | 8Hrs |
| 8. Night dress- With / without yoke, Sleeve variation. | 8Hrs |
| 9. Ladies pant- patch pant, Zip attached. | 8Hrs |
| 10. Ladies shirt-Half open collar, half or full sleeve. | 8Hrs |

COURSE OUTCOME:

1. Illustrate different designs and styles for Women's wear. (k2)
2. Construct and rephrase basic into modify patterns. (k3)
3. Examine suitable fabrics, colors and designs for patterns. (k4)
4. Construct the garment as per the pattern and drafting procedure. (k3)
5. Summarize the cost calculation for the garment (k2)

**SEMESTER-IV
18BAF4C22P
TEXTILE WET PROCESSING- PRACTICAL**

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	20
Total Hours	:	60	External Marks	:	80

OBJECTIVES:

- To build practical knowledge regarding pre treatments of fabric before dyeing.
- To compare different dyes for fabrics.
- To ensure the students to identify the suitable dyes for different fabrics.
- To study the dyeing mechanism.

I. Preparatory process

1. Desizing	4Hrs
2. Scouring	4Hrs
3. Bleaching- Cotton	5Hrs
4. Mercerization- cotton	5Hrs
5. Degumming- silk	5Hrs

II. Dyeing of fabrics

6. Direct Dye- cotton	4Hrs
7. Acid Dye- wool	4Hrs
8. Basic Dye- silk	4Hrs
9. Disperse Dye- polyester	4Hrs
10. Reactive Dye- cotton	4Hrs

III. Printing in different methods

11. Block printing	3Hrs
12. Stencil printing	3Hrs
13. Screen printing	3Hrs
14. Tie and Dye printing	4Hrs
15. Batik printing	4Hrs

COURSE OUTCOME:

1. Recall and experiment the basic preparatory processing for fabrics (k1)
2. Relate the dyes and fabrics (k2)
3. Defining the methods and types of printing (k1)
4. Categorize the dyeing method by printing techniques (k4)
5. Make use of surface ornamentation by using different printing methods (k3)

SEMESTER-IV
18BAF4C23P
ACCESSORIES MAKING – PRACTICAL

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	20
Total Hours	:	45	External Marks	:	80

OBJECTIVES:

- To gain the knowledge in fashion accessories.
- To prepare the stud, chain, bangles, hand bags, foot wears and hand gloves.
- To design and construct the accessories using Paper, Fabrics, Beads, Glass, Leather and other suitable materials.
- To Design and create the Fashionable Textile accessories.

1. Construct the Earring Varieties using Beads and Kundhan stones.	5 Hrs
2. Construct the Chain Varieties using Newspaper and fabrics.	5 Hrs
3. Construct the Bracelet Varieties using Copper string, beads and hooks.	5 Hrs
4. Construct a Hand Bag using Fur or resin Fabric.	5 Hrs
5. Construct a Foot Wear using leather or resin Fabric.	5 Hrs
6. Construct a Men’s Tie using a suitable Fabric.	5 Hrs
7. Construct a Hand Gloves using a floral textured fabric.	5 Hrs
8. Construct a Baby Hat using the leather or resin fabric along with canvas.	5 Hrs
9. Construct a Belt using the resin fabric.	5 Hrs

COURSE OUTCOME:

1. Build the fashionable accessories such as earrings, Chain and Bracelets (K6)
2. Construct Apparel accessories such as Handbag and belts (k3)
3. Inspect about the Construction of Footwear (k4)
4. Develop the design for construct the Baby hat (k3)
5. Design the fashionable apparel accessories Men’s Tie (K6)

**SEMESTER-IV
18BAF4C24I
INTERNSHIP**

Credit	:	6	Max Marks	:	100
Hours/Week	:	-	Internal Marks	:	20
Total Hours	:	180	External Marks	:	80

OBJECTIVES:

- To experiment with different styles of women's wear.
- To learn process sequence in dyeing and printing.
- To know export trade regulations in a apparel industry.
- To gain knowledge in a boutique/ retail store.

INSTRUCTIONS:

- The student has to visit and prepare the report for Textile wet processing unit/ dyeing/ printing/Retail store/Boutique/Garment unit (**or**)
- Prepare Portfolio presentation – Design and construct the women's apparel
- Duration 36 days.
- Period – end of IVth semester.
- Submission of internship report and marks statement in the prescribed format during last week IVth semester.
- Report will be evaluated by-guide under viva voice examination.

COURSE OUTCOME:

1. Show the knowledge about Working environment by giving real-time exposure in the Industry(K2)
2. Interpret the knowledge about dyeing and printing (K2)
3. Demonstrate the ability to work effectively as a team member and/or leader in an ever changing garment industry (K3)
4. Explain the students to relate their theoretical knowledge with the application domain of the garment industry (K2)
5. Design and develop various styles of garments for women (K6)

SEMESTER-IV
18BCN4GS
GENDER STUDIES

Credits	:	2	Max Marks	:	100
Hours/Week	:	1	Internal Marks	:	-
Total Hours	:	15	External Marks	:	100

OBJECTIVES:

- To know the social, cultural contributions of one or more women.
- To identify gender and sex-based inequalities in a particular society.
- To read and respond to feminist scholarship.
- Scrutinizes the social construction of gender roles.

UNIT-I: 6Hrs

Concepts of Gender: Sex-Gender - Biological Determinism – Patriarchy – Feminism – Gender Discrimination - Gender Division of Labour - Gender Stereotyping - Gender Sensitivity – Gender Equity – Equality - Gender Mainstreaming - Empowerment.

UNIT-II: 6Hrs

Women's Studies Vs Gender Studies: UGC's Guidelines – VII to XI Plans – Gender Studies: Beijing Conference and CEDAW.

UNIT-III: 6Hrs

Areas of Gender Discrimination: Family – Sex Ratio – Literacy – Health Governance – Religion Work Vs Employment – Market – Media – Politics – Law – Domestic Violence – Sexual Harassment – State Policies and Planning.

UNIT-IV: 6Hrs

Women Development and Gender Empowerment : Initiatives – International Women's Decade – International Women's Year – National Policy for Empowerment of Women – Women Empowerment Year 2001 – Mainstreaming Global Policies.

UNIT-V: 6Hrs

Women's Movements and Safeguarding Mechanism: All Women Police Station – Family Court – Domestic Violence Act – Prevention of Sexual Harassment at Work Place Supreme Court Guidelines

– Maternity Benefit Act – PNDT Act – Eve Teasing Prevention Act – Self Help Groups – 73rd and 74th Amendment for PRIS.

COURSE OUTCOME:

1. Identify major influences within key historic feminist movements. (k3)
2. Evaluate, compose, and critique gender and feminist theories and methodologies. (k4)
3. Recognize their relationship within their communities and understand that actions are integral to overcoming inequalities. (k4)
4. Identify and employ legitimate sources of information covering social inequalities and injustices. (k3)
5. Engage in promoting social justice and human rights. (k5)

TEXT BOOK:

1. Gender Studies, (08U612), Jamal Mohamed College (Autonomous), Trichirappalli -20.

SEMESTER V
18BAF5C25
GARMENT QUALITY AND COST CONTROL

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To learn the terms of quality in textile industries.
- To know the uses of quality control and its specification of apparel industries.
- To gain knowledge in cost control.
- To learn about quality specifications.

UNIT-I: INTRODUCTION TO QUALITY **12Hrs**

Concept of quality, aspects of quality, definition of QC (quality control) and QA (quality assurance), importance of quality, advantages of quality control.

UNIT-II: QUALITY CONTROL **12Hrs**

Definition-concept- scope of quality control – establishing merchandising standards - quality control of raw material.

UNIT-III: QUALITY SPECIFICATION **12Hrs**

Establishing processing quality specification-training quality control personnel-quality standard control- quality control-inspection- quality control for finished garments, packaging, warehousing and shipping.

UNIT-IV: TYPES OF CONTROL FORMS **12Hrs**

Types of control forms - basic production systems - principles for choosing a production system, evaluating production systems, basic flow process grids for production control.

UNIT-V: COST CONTROL **12Hrs**

Cost control – definition, aspects of cost control, and advantages of cost control functions of cost control- types of costs and expenses-the manufacturing budget- cash flow control-standard cost sheet- breakeven charts.

COURSE OUTCOME:

1. Identify the quality concepts and importance of quality control in textile industry (k3)
2. Explain the quality parameters of textile and clothing (k2)
3. Analyze the quality specifications in textile (k3)
4. Examine the quality control in finished garments, packaging and warehousing (k4)
5. Discuss about cost control and types of control forms. (K6)

TEXT BOOK:

‘Garment Quality and Cost Control’ –Study Material prepared by the Department.

BOOKS FOR REFERENCES:

1. Website: <http://ezinearticles.com> / Garment Quality and Cost Control.
2. Pradip V. Mehta, Managing quality in apparel industry, new age international, New Dehli, India, 1998.
3. P L Jain, Quality control and total quality management, Tata Mccraw- Hill publishing company limited, New delhi, India, 2006.

SEMESTER V
18BAF5C26
TEXTILE TESTING

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To understand the methods used for textile sampling.
- To know about the various techniques to Analysis about the textile fibers, Yarns and Fabrics.
- To acquire knowledge about various properties of textile materials.
- To endure the Quality and performance of the textile product.

UNIT-I: INTRODUCTION TO TEXTILE TESTING**12 Hrs**

Importance of Textile testing, general rules for testing, Different types of testing and their needs-Physical test, Chemical Test, Mechanical test. Sampling-Fiber sampling Techniques –Cut square method and Zoning method.

UNIT-II: FIBER TESTING**12 Hrs**

Fiber analysis-length-Baer sorter Technique ,Fiber fineness-Methods of measuring fineness-Airflow method by Micronaire.Fiber maturity-Determination of maturity-Caustic soda swelling method,Fibre trash-Shirley trash analyser,Moisture content-Shirley Moisture tester, Moisture regain-Wet and dry bulb hygrometer.

UNIT-III: YARN TESTING**12 Hrs**

Yarn Analysis-Count of yarn-Yarn numbering system- Indirect, direct, universal, Yarn Strength-Single thread strength of CRT principle and Lea tester, Yarn grade and appearance-Visual examination method,Fielden-Walker Evenness tester, Yarn twist –Methods of determination of twist-Single yarn Twist Tester-Types of twist.

UNIT-IV: FABRIC ANALYSIS

12 Hrs

Fabric Analysis-Fabric length-Trumeter, Fabric weight-GSM method, Fabric thickness-Fabric thickness tester. Serviceability test – Bursting Strength-Hydraulic Bursting Principle, Abrasion Resistance-Martindale abrasion tester, Pilling test-Mechanism and factors of pilling,Martindale Pilling tester.Water permability test-Poracity Principle and Fabric stiffness and Drapability Test-Drapemeter.

UNIT-V: COLOUR FASTNESS TEST

12 Hrs

Colour Fastness-Sunlight, Crocking-Crockmeter, Pressing-Steam Iron, Perspiration-Acid and alkaline. Laundering and Dry Cleaning. Fastness Grading using Gray Scale, Whiteness Index and Colour Matching Cabinet.

COURSE OUTCOME:

1. Identify the quality concepts about the components of textile (k3)
2. Classify about the Quality analysis of fibers (k2)
3. Explain about the Quality parameters of yarns (k2)
4. Measure about the Quality components of fabric (k4)
5. Discuss about the Basic color fastness test and its factors(K6)

TEXT BOOK:

Textile Testing-Study Material, Department of Fashion Technology, Jamal Mohamed College, Trichy.

BOOKS FOR REFERENCES:

- 1.Seema Sekhri,Text book of fabric science, Fundamentals of finishing, PHI Learning private Limited,Newdelhi,2013.
2. Howard L.Needles, Textile fibres, Dyes, Finishes and processes, Noyes Publication, USA, 1986.
3. Meenakshi Rastogi,Industrial Laundry,Sonali Publication,Newdelhi,2009.
4. Groover.E and B Hamby.D.S, Textile Testing and Quality Control, John Wiley and Sons Inc, New York, 1960.

SEMESTER V
18BAF5C27
APPAREL HOME FURNISHING

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To know the indoor designing
- To understand the different colors and room designing
- To design the furnishings for room structure
- Create the designs kitchen linens

UNIT-I: FLOOR COVERING**12Hrs**

Carpets- Choosing Carpets, carpet manufacturing, Comparison of carpet types, woven carpets, non-woven carpets, Protection of carpets, Carpet maintenance and troubleshooting.

UNIT-II: LIVING ROOM FURNISHING**12Hrs**

Introduction, choosing color, pattern and texture for interiors, sofa types. Sofa covers wall hangings, cushion and cushion covers. Bolster and bolster covers.

UNIT-III: WINDOW AND WINDOW TREATMENTS**12Hrs**

Introduction-parts of windows - types of blinds - curtains and draperies. Definition, types, pelmets, net curtains, blind loose covers, curtain fixtures.

UNIT-IV: BED LINENS**12Hrs**

Introduction- Types of beds, cots, bed boards, other beds, types of mattresses and mattress covers. Types of bed spread - blankets, pillow, quilts.

UNIT-V: KITCHEN AND TABLE LINENS

12Hrs

Kitchen Linens: Introduction, types of kitchen linens - hand towels, dish cloth, kitchen apron, tea cozy cover, bath linen.

Table Linens: Introduction, types of table linens, table cloth, table mats, table napkin.

COURSE OUTCOME:

1. Select the fabrics for home furnishing (k1)
2. Survey of the colour and fabric for furnishing product (k4)
3. Identify the theme of home furnishing product (k4)
4. Design the products (k6)
5. Develop to the product design. (k3)

TEXT BOOK:

‘Apparel Home Furnishing’ Text book prepared by the Department.

BOOKS FOR REFERENCES:

1. Seema Sekhri, Text book of fabric science, Fundamentals of finishing, PHI Learning private Limited, New Delhi, 2013.
2. Howard L. Needles, Textile fibres, Dyes, Finishes and processes, Noyes Publication, USA, 1986.
3. Meenakshi Rastogi, Industrial Laundry, Sonali Publication, New Delhi, 2009.
4. Groover, E and B Hamby, D.S, Textile Testing and Quality Control, John Wiley and Sons Inc, New York, 1960.

SEMESTER V
18BAF5C28P
APPAREL DESIGNING FOR MEN'S WEAR – PRACTICAL

Credits	:	5	Max Marks	:	100
Hours/Week	:	5	Internal Marks	:	20
Total Hours	:	75	External Marks	:	80

OBJECTIVES:

- To create different types of patterns for men's.
- To suggest suitable fabrics, colors and designs for all patterns.
- To learn the drafting procedures for men's Apparel.
- To suggest suitable fabrics, colors and designs for all patterns.

Design and construct the following Garments

- | | |
|--|--------------|
| 1. S.B Vest –With collar, Sleeveless. | 8 Hrs |
| 2. T-Shirt-Polo t shirt, Round neck t shirt, Neck binding. | 8Hrs |
| 3. Slack Shirt-with Collar, Half Sleeve, Pocket. | 8Hrs |
| 4. Full sleeve shirt | 8Hrs |
| 5. Nehru Kurta -Kali Piece, Pocket, collar. | 8Hrs |
| 6. Kalidar Kurta - Kali Piece, Side Pocket, Round Neck, Half Open. | 8Hrs |
| 7. Nehru jacket- Pocket, collar. | 9Hrs |
| 8. Pyjama – Elastic, Tape attached Waist, With/Without Fly. | 9Hrs |
| 9. One- piece pant | 9Hrs |

COURSE OUTCOME:

1. Illustrate different designs and styles for Men's Apparel. (k2)
2. Construct and rephrase basic and modify patterns. (k3)
3. Examine suitable fabrics, colors and designs for patterns. (k4)
4. Construct the garment as per the pattern and drafting procedure. (k3)
5. Summarize the cost calculation for the Men's garment. (k2)

SEMESTER V
18BAF5C29P
TEXTILE TESTING- PRACTICAL

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	20
Total Hours	:	60	External Marks	:	80

OBJECTIVES:

- To study about the physical testing of textiles.
- To know the testing methods for colored fabrics.
- To gain knowledge about tester used in testing.
- To understand the principles for various textile testing machines.

I.IDENTIFICATION OF TEXTILE FIBRES

Fibres – Cotton, Silk, Wool, Nylon, Polyester, Linen, Rayon, Jute.

1. Microscopic Test.	3Hrs
2. Burning Test.	2Hrs
3. Solubility Test.	3Hrs

II.YARN TEST

4. To determine the yarn count using Quadrant Balance.	4Hrs
5. To determine the yarn count using Wrap Reel Method.	4Hrs
6. To determine the yarn count using Beesley’s Balance Method.	4Hrs
7. To determine the yarn Twist using Single Yarn Twist Tester.	4Hrs
8. To determine the Course Length and Loop Length for knitted fabric.	4Hrs

II.FABRIC TEST

9. To determine the thickness of a fabric using Thickness Tester.	4Hrs
10. To determine the stiffness of a fabric using Stiffness Tester.	4Hrs

11. To determine the drape of a fabric using Drape Meter. **4Hrs**

12. To determine the crease of a fabric using Crease Recovery Tester. **4Hrs**

13. To determine the cover factor for a fabric. **4Hrs**

III.COLOURFASTNESS TEST

14. To determine the rubbing fastness of a dyed fabric using Crock Meter. **4Hrs**

15. To determine the colour fastness to sunlight using Gray Scale. **4Hrs**

16. To determine the colour fastness to washing. **4Hrs**

COURSE OUTCOME:

1. Classify the textile fibers (k2).

2. Explain about natural and man-made fibers. (k2)

3. Test for the identification of fibers. (k4).

4. Importance of fibers used in textiles. (k5).

5. Discuss about microscopic test and chemical test for textile fibers (k6)

**SEMESTER V
18BAF5C30P
APPAREL HOME FURNISHING –PRACTICAL**

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	20
Total Hours	:	45	External Marks	:	80

OBJECTIVES:

- To implement the students creativity in the home products.
- To innovate a product from wealth out of waste.
- To develop the students knowledge about home textile products.
- To study scenario of home textiles and to identify new trends.

Designing and Constructing Home Textile Products

1. Living Room Linens 18Hrs

- | | | |
|---------------------|---|--|
| a. Sofa Covers | – | Cut Works |
| b. Cushion | – | Smocking |
| c. Carpet | – | Using Waste Material |
| d. Wall Hangings | – | Collage Work. |
| e. Curtains | – | Box, Pinch, Pleat, Café Curtain, Criss Cross Curtain |
| f. Draperies | – | Any One Method. |
| g. TV cover | | |
| h. Cell phone cover | | |

2. Kitchen Linen 9Hrs

- a. Apron
- b. Gloves

3. Table Linens 10Hrs

- | | | |
|--------------|---|-----------------|
| a. Runner | - | Hand Embroidery |
| b. Napkins | - | ” |
| c. Tea Cosy | - | ” |
| d. Place Mat | - | ” |

4. Bed Linen

8Hrs

- a. Bed Spread - Tie and Dye
- b. Baby Blanket - Quilting
- c. Pillow Covers - Appliqué

COURSE OUTCOME:

1. Demonstrate the purpose and uses of Home textiles (k2)
2. Construct the Home textile products for various applications (k3)
3. Make use of wealth from waste materials (k3)
4. Discover new trends for Home furnishings (k4)
5. Develop the innovative things for Home (K6)

**SEMESTER-V
18BAF5C31I
INTERNSHIP**

Credit	:	6	Max Marks	:	100
Hours/Week	:	-	Internal Marks	:	20
Total Hours	:	180	External Marks	:	80

OBJECTIVES:

- To get exposure in visual merchandising.
- To get knowledge about fashion photography.
- To observe the process of home furnishing unit.
- To know about design and development of men's apparel.

INSTRUCTIONS:

- The student has to visit and prepare the report for Home furnishing unit/ Fashion photography/Visual merchandising/Retail store/boutique (Or)
- Prepare Portfolio presentation – Design and construct the Men's apparel.
- Duration 36 days.
- Period-By end of V semester.
- Submission of report and make statement in the prescribed format during last week of 5th semester.
- Report will be evaluated by-guide under viva voice examination.

COURSE OUTCOME:

1. Show the knowledge about Working environment by giving real-time exposure in the Industry(K2)
2. Interpret the knowledge about fashion photography (K2)
3. Explain the students to relate their theoretical knowledge with the application domain of the visual merchandising (K2)
4. Demonstrate the ability to work effectively as a team member and/or leader in an ever changing Home furnishing industry (K3)
5. Design and develop various styles of garments for men (K6)

**SEMESTER VI
18BAF6C32
VISUAL MERCHANDISING**

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To know the role of visual merchandising in retail shops.
- To know about store planning, circulation plan and presentation of products.
- To know the quality and process in visual merchandising.
- To encourage the students to become an entrepreneur.

UNIT –I: INTRODUCTION TO MERCHANDISING 12Hrs

Visual Merchandising – Definition and Function, History of visual merchandising, Role of visual merchandising, Visual Merchandiser-Duties and Responsibilities of the merchandiser.

UNIT –II: STORE PLANNING AND FIXTURES 12Hrs

Store plan-Factors in store planning, Floor plan and its features. Fixture-The purpose of planning fixtures, Types of fixtures.

UNIT –III: BOUTIQUE AND CIRCULATION PLAN 12Hrs

Boutique-Features and importance of Boutique, Circulation plan – Rules of circulation Plan, Types of Circulation plan – Free flow, Grid, Race track, Herringbone and spin.

UNIT –IV: MERCHANDISE PRESENTATION 12Hrs

Merchandise presentation – Principles of merchandise presentation, categories in merchandise presentation, Dominance factor in merchandise presentation, Display-Types of display- Elementary of display – Store Exteriors and Interiors.

UNIT –V: WINDOW DISPLAY

12Hrs

Window display-Features and importance of windows display. Promotional Display Vs Institutional Display, Mannequins, Torso-Types of Mannequins and Torso. Lighting-Different types of Lightening. Visual Merchandising Tool Kit, Quality and process in Visual Merchandising.

COURSE OUTCOME:

1. Explain about the Fundamentals and Features of Visual Merchandising (k2)
2. Discuss about Different Methods of Floor planning and fixtures (K6)
3. Comparison of the boutique and its features (k4)
4. Discuss about the Merchandise presentation and its principle (K6)
5. Classify various types of Window display (k4)

TEXT BOOK:

Visual merchandising, Study Material, Dept of fashion Technology and costume designing, Jamal Mohamed College, Trichy.

BOOKS FOR REFERENCES:

- 1.Manmeet Sohia, Pooja Chatley,Fashion Marketing and Merchandising,Kalyani Publishers,Newdelhi,2008.
- 2.Malini singh, Jaya B.George,House Keeping,Jaico publication house,Newdelhi,2008.
- 3.Jay Diamond,Ellen Diamond, Fashion apparel accessories and Home Furnishings, Dorling Kindersley publication,India,2008 .
- 4.Bhallo.S, Anuraya.S, Visual Merchandising, Tata MC Graw Hill Education Private Limited, New Delhi, 2010.

SEMESTER-VI

18BAF6C33

WARDROBE PLANNING AND FABRIC CARE

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	75
Total Hours	:	60	External Marks	:	25

OBJECTIVES:

- To impart the knowledge about care of the fabric.
- To know about Basic Laundering concepts.
- To acquire Basic Knowledge about Various stains and its removal procedure.
- To acquire knowledge and understand various fabric effects and care labels.

UNIT-I: WATER

12 Hrs

Water-Classification of water-Hard and Soft Water, Methods of water softening-Lime soda Method, Ion exchange method-Preparation of Soap and Detergent.

UNIT-II: PRINCIPLES OF WASHING & FINISHING

12 Hrs

Washing - Suction Washing, Machine washing, Washing by Kneading and Squeezing. Stiffening Agents- Starch, Types of starch-Natural and synthetic, Preparation of starch. Bluing agents- Laundry Blue.

UNIT-III: LAUNDERING AND STORAGE OF FABRICS

12 Hrs

Preparatory process in laundering-Washing and Dry cleaning-White and colored fabrics, Synthetic and silk fabrics, Heavy worked Fabrics. Storage of Fabrics-Wardrobe Planning, Factors in wardrobe storage and Planning.

UNIT-IV: REMOVAL OF STAINS

12 Hrs

Stain-Classification of Stains-Vegetable, Animal, Mineral. Stain Removal-Home made and Synthetic solvents. Application of Stain Removers, Some Common Stains-Oil, Tannin, Protein, Crease and dye.

UNIT-V: CARE LABEL

12 Hrs

Care label, Care label code, and Care labeling system-International care labeling system-Indian, British, Canadian and European.

COURSE OUTCOME:

1. Summarize about the Basic knowledge about the Water and its softening methods (k2)
2. Identify about the principles of washing and finishing (k3)
3. Explain about the Factors in fabric laundering and wardrobe planning (k2)
4. Discuss about the stains and its common methods of removal (K6)
5. Distinguish study about various care labeling system (k4)

TEXT BOOK:

Fabric Care-Study Material, Department of Fashion Technology, Jamal Mohamed College, Trichy.

BOOKS FOR REFERENCES:

- 1.Subrata Das, Performance of Home Textiles, Wood head publishing India PVT Limited, Newdelhi, 2010.
- 2.Sara J Kadoph, Quality Assurance for Textiles and Apparel, Fairchild Publications, Inc USA, 2008.
- 3.Gupta et al, Text Book of Clothing and Textiles and Laundry, 5th Edition, Kalyani Publishers, New Delhi, 2006.
- 4.Noemia. D Souza, Fabric care, New Age International (P) Limited, Publishers, Chennai, 2003.

SEMESTER-VI
18BAF6C34
HOME SCIENCE

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	25
Total Hours	:	60	External Marks	:	75

OBJECTIVES:

- To study the basic concept of home science.
- To learn the importance of nutrition and it's processing.
- To make the students to understand the process of home management.
- To gain knowledge about stages in life span.

UNIT-I: CONCEPT OF HOME SCIENCE**10 Hrs**

Meaning and scope of Home Science, History of Home Science , Philosophy of Home Science – Structure and Components of Home Science – Basic principles of Home Science.

UNIT-II: FOOD SCIENCE**13 Hrs**

Functions of food, food groups, food preparation - Dry heat methods and wet heat methods. Food analysis – cereals, pulses, nuts and oil seeds, milk and milk products, eggs, flesh foods, vegetables and fruits, sugar and related products, spices.

UNIT-III: NUTRITIONAL SCIENCE**12 Hrs**

Fundamentals of nutrition. Nutritional Biochemistry – proteins, Carbohydrates, lipids, vitamins and minerals. Food preservation – Bactericidal methods and bacteriostatic methods. Purchasing and storing of foods.

UNIT-IV: HOME MANAGEMENT**13 Hrs**

Process of home management – Motivating factors of management (Values, Goals and Standards) - Resource and its classifications. Decision Making – steps in Decision Making. Housing – Kitchen planning and its types.

UNIT-V: CHILD DEVELOPMENT

12 Hrs

Principles of development, stages of growth from neonatal to old age and its characteristics. Problems in child hood – withdrawn behavior, aggressive behavior, hyperactivity, fear & phobias, sleep disturbances, depression, autism, infantile autism, learning difficulties, dyslexia, mental sub normality.

COURSE OUTCOME:

1. Summarize about the Basic knowledge about the home science (k2)
2. Categorize the different types of food groups (k5)
3. To know the importants of nutrition's (k5)
4. Discuss about the management factors (K6)
5. To know the principles of child development (k4)

TEXT BOOKS:

1. Mullick.P,Text Book of Home Science, Kalyani Publishers, 2010.
2. Khosla.A and Manocha.R, UGC, NET / SET Home Science, Danika Publishers of Trueman's Specific Series, 2012.
3. Yadla.V.L and Jasrai.S, Reference Book for UGC in Home Science, Kalyani Publishers, 2006.

SEMESTER-VI
18BAF6C35P
APPAREL DRAPING – PRACTICAL

Credits	:	5	Max Marks	:	100
Hours/Week	:	5	Internal Marks	:	20
Total Hours	:	75	External Marks	:	80

OBJECTIVES:

- To be more creative in design to develop the draping skill of the students.
- To know the basic of draping
- To develop pattern by using draping.
- To experiment with different types of designs.

I. INTRODUCTION TO DRAPING

- | | |
|---|-------------|
| 1. Introduction to Draping Technique | 2Hrs |
| 2. Tools& Equipments needed for Draping | 2Hrs |
| 3. Blocks | 2Hrs |

II. BASIC DRAPING

- | | |
|------------------------------|-------------|
| 1. Basic Bodice for Women | 3Hrs |
| 2. Basic Bodice for Men | 3Hrs |
| 3. Basic Bodice for Children | 3Hrs |

III. MANIPULATING TECHNIQUE

- | | |
|----------------------|-------------|
| 1. Dart Manipulating | 3Hrs |
| 2. Princess Shapers | 3Hrs |

IV. BASIC DRAPING OF BODY PARTS

- | | | |
|--------------------|---|-------------|
| 1. Basic Necklines | - Round, Halter, Asymmetric | 6Hrs |
| 2. Basic Collars | - Stand collar, Peterpan collar, Shawl collar | 6Hrs |
| 3. Basic Sleeves | - Plain, Puff, Raglan | 6Hrs |
| 4. Basic Skirt | - A line, Circle, Tulip | 8Hrs |

V. GARMENT DRAPING

1. Kid's wear	- Frock , Jump suit	8Hrs
2. Women's wear	- Maxi, one shoulder dress	10Hrs
3. Men's wear	- Shirt, Kurta Pyjama	10Hrs

COURSE OUTCOME:

1. Explain the tools and needs for draping (k2)
2. Experiment with different kinds of designs in draping (k3)
3. Analyze the advantages in draping (k4)
4. Estimate the fabric usage for draping of garments (k5)
5. Design and develop creative designs and new patterns for garment in draping (K6)

SEMESTER-VI
18BAF6C36P
AARI EMBROIDERY - PRACTICAL

Credits	:	4	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	20
Total Hours	:	60	External Marks	:	80

OBJECTIVES:

- To understand the different types of aary embroidery stitches.
- To know about the different materials and tools required for aary.
- To understand how to tracing a design and convert to fabric.
- To construct the bridal blouse using given aari stitches.

1. Thandi (chain)	6Hrs
2. Back thandi	6Hrs
3. Salli	6Hrs
4. Double salli	6Hrs
5. Padded load stitch	6Hrs
6. Kichu Kichu	6Hrs
7. Tikka Tikki,(Jumki, bead, tube bead)	6Hrs
8. Zardosi	6Hrs
9. Mirror work	6Hrs
10. Cut work	6Hrs

PROJECT WORK/DESIGN:

Design a blouse using above all stitches.

COURSE OUTCOME:

1. Choose capable of designing aari embroidery by different stitches. (k3)
2. Enable the trainees to make creative designs in aari embroidery and prepare dresses by using these aari embroidery stitches. (k6)
3. Capable to identifying new opportunities in craft, textile art and fashion and design markets. (k6)
4. identify various color schemes and their application in dress making. (k3)
5. Elaborate the techniques of create the different stitch with hand. (k6)

SEMESTER VI
18BAF6C37P
FABRIC PAINTING – PRACTICAL

Credits	:	3	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	20
Total Hours	:	45	External Marks	:	80

OBJECTIVES:

- To enable the students to create a painting design.
- To learn how to use different sources in painting.
- To choose the different color combinations in painting.
- To suggest suitable colors and Fabric for all designs.

DRAW A DESIGN AND APPLY THE SUITABLE COLOURS

- | | |
|--|-------------|
| 1. Fabric Painting-Types-One stroke, 3D, Spray, Block, Wet, Stencil, Finger. | 9Hrs |
| 2. Stencil Painting -Craft and hobby stencil, paper craft, quilting stencil. | 9Hrs |
| 3. Sand Painting- Materials- Cristal salt and Colors used for sand painting. | 9Hrs |
| 4. Finger painting- Sponges, cloth | 9Hrs |
| 5. Spray painting-Negative space spray | 9Hrs |

COURSE OUTCOME:

1. Illustrate different designs and styles for new painting techniques. (k2)
2. Create the new Fabric painting techniques (k6)
3. Develop new designs for sand painting (k6)
4. Improve the Designing techniques (k6)
5. Modify the fabric design styles (k6)

**SEMESTER-VI
18BAF6C38I
INTERNSHIP**

Credit	:	6	Max Marks	:	100
Hours/Week	:	-	Internal Marks	:	20
Total Hours	:	180	External Marks	:	80

OBJECTIVES:

- To get exposure in Aari embroidery unit /fabric painting unit.
- To observe production process in boutique.
- To gain knowledge in both men's and women's wear.
- To experiment with variety of styles in draping method.

INSTRUCTIONS:

- The student has to visit and prepare the report for Garment unit/ Aari embroidery unit/ Fabric painting unit/Retail store/Boutique **(or)**
- Prepare Portfolio presentation – Make different styles of garments by using draping technique.
- Duration 36 days.
- Period-By end of VIth semester.
- Submission of report and make statement in the prescribed format during last week of VIth semester.
- Report will be evaluated by-guide under viva voice examination.

COURSE OUTCOME:

1. Demonstrate the difficulties in the Textile Industry (K3)
2. Explain the students to relate their theoretical knowledge with the application domain of the garment industry (K2)
3. Show the knowledge about Working environment by giving real-time exposure in the boutique (K2)
4. Experiment with different styles of garment draping (K3)
5. Interpret the knowledge about process sequence in boutique (K2)