MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI-12, TAMILNADU

B. Sc .FASHION DESIGNING AND APPAREL MAKING (2017-2018 onwards)

Sl.No	Category of Subjects	Contact Hrs/week	Credits
	SEMESTER III	·	1
1.	Core- Fabric structure and Design	5	4
2.	Core-Fashion Designing	4	4
3.	Core-Fashion and clothing psychology	4	4
4.	Major Practical III-Designing and Construction of women's wear	4	2
5.	Allied III- Computer in the Garment Industry	3	3
6.	Allied Practical III-Basic Illustration	4	2
7.	Skill Based Core-Textile Processing	4	4
8.	Non- Major Elective 1. Embroidery and Surface working	2	2
	2.Fashion Concept		
9.	Common-Yoga	0	2
	Subtotal	30	27
	SEMESTER IV		
10.	Core-Knit Fabric and Structure	5	4
11.	Core- Fashion Merchandising and Marketing	4	4
12.	Core-Technology of Textile Finishing	4	4
13.	Major Practical IV-Computer Aided Design	4	2
14.	Allied IV- Printing Technology	3	3
15.	Allied Practical IV-Textile Processing	4	2
16.	Common-Computers for Digital Era	0	2
17.	Skill Based Core-Entrepreneurial Development	4	4
18.	Non- Major Elective 1. Fashion Illustration	2	2
	2.Fibre to Fashion		
19.	Extension Activity –NCC,NSS,YRC,YWF,PE-	0	1
Subtotal		30	28
	SEMESTER V		
20.	Core-Apparel Costing	6	4
21.	Core-Home Textile	5	4
22.	Core-Care and maintenance of Textiles	5	4
23.	Major Practical V- Designing and Constructing Men's wear	4	2
24.	Major Elective - Technical Textiles	4	4
25.	Skill Based Common- Personality Development/Effective	2	2
	Communication/Youth Leadership		
26.	Mini Project	4	6

	Subtotal	30	26	
SEMESTER VI				
27.	Core-Textile Testing and Quality Control	4	4	
28.	Core-Apparel Export Trade Documentation	4	4	
29.	Core-Clothing care and Wardrobe Planning	4	4	
30.	Core- Apparel Production and Quality Management	4	4	
31.	Major Practical VI-Textile testing and Quality Control	4	2	
32.	Major Elective – Fashion Portfolio	4	4	
33.	Major Project	6	7	
	Subtotal	30	29	
Total 110				

Total 140 credits- exclusive of Yoga and Computers for Digital Era

Semester – III - Core

FABRIC STRUCTURE AND DESIGN

L T P C

4004

(Total: 60L)

Preamble: This course facilitates an understanding of fabric forming techniques and orients the learners in the field of fabric design .The learners are expected to know the classification of weave ,construction of elementary weaves in textile industry.

UNIT-I:Elements of woven design:

Elements of woven design, Methods of fabric representation, draft and lifting plan, construction of elementary weaves – plain, wrap rib, weft rib, twill, modification of twills, satin and sateen weaves – their derivatives.

Principles of shuttleless looms- projectile, air-jet, water-jet, rapier. (14L)

UNIT – II: Fancy weave:

Ordinary and brighten honey comb – its modification, huck-a-back and its modifications, crepe weave, mock leno weave. (11L)

UNIT – **III:**Extra – warp and extra weft figuring:

Extra - warp and extra weft figuring – single and two colours, planting, backed fabrics, warp and weft backed fabrics. (12L)

UNIT-IV:Pile fabric:

Pile fabric – Formation of pile – weft pile- warp pile- Bedford cord and it's Modifications. (12L)

UNIT –V: Double cloth:

Reference:

- 1. Watson's textile design and colour, GrosichkiliZNewness, Butter worths, London 1980.
- 2. Watson's advanced textile design, Grosichkli Z Newness, Butter worths, London 1989.
- Textiles –fibre to fabric, corbmann B.P, Intenationalstudents edition, McGraw Hill book Co, Singapore 1985.

Semester – III - Core

FASHION DESIGNING L T P C

Preamble: This course facilitates n understanding of fashion design and orients the learners in the field of costume design. The learners are expected to know the elements of design, principles of design, fashion designers and colors in fashion industry.

UNIT I: Terms related to the fashion industry:

Terms related to the fashion industry- Fashion, style, fad, classic, collection, chic, custom made, mannequin, fashion show, trend, forecasting, high fashion, fashion cycle, haute couture, culture, couturier, fashion director, fashion editor, line, knock-off avantgarde, bridge, buying house, fashion merchandising, pre-a-porter, sample. (13L)

UNIT II: Design:

Design- Definition and types – structural and decorative design. Elements of design – line, shape or form, color, size and texture. Application of structural and decorative designs in a dress. Selection and application of trimmings and decorations. Fashion accessories- shoes, handbags, hats, ties – different types/shapes. Principles of design- balance- formal and informal, rhythm- through repetition, radiation and gradiation, emphasis, harmony and proportion. Applications of principles of design in a dress. (12L)

UNIT III:Colour:

Colour- definition, colour theories- prang color chart and munsell color system. Dimensions of colorhue, value and intensity. Standard color harmonies- color in principles of design- application of the same in dress design. (12L)

UNIT IV: Designing dresses for unusual figures:

Designing dresses for unusual figures types - stout figure, slender figure, narrow shoulder, broad shoulder, round shoulder, large bust, flat chest, large hip, large abdomen, round face, large face, small face. (12L)

UNIT V: Designers:

Designer- Role & function, Types of designer. Fashion and season, Designing dresses for different occasions – business meetings, parties/dinners, evenings, leisure hours, marriage functions, sports, airhostess & hoteliers, (11L)

Reference:

1. Fashion sketch book – BinaAbling, Fair Child Publications, New York Wardrobe.

2. Inside the Fashion Business – Heannette A Jarnow et-al, Macimilan Publishing Company, New York.

3. Art and Fashion in Clothing Selection – McJimsey and Harriet, Lowa State University press, Jowa.

(Total:60L)

4004

Semester – III - Core

FASHION AND CLOTHING PSYCHOLOGY

L T P C 4004

Preamble: This course facilitates n understanding of fashion accessories and orients the learners in the field of fashion design. The learners are expected to know the fashion psychology and fashion designer in fashion industry.

UNIT – I

Fashion Accessories – Shoes, handbags, jewelry, hats, ties and other. Prepare an album for accessories. (13L)

UNIT – II

Figure irregularities – 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. (12L)

UNIT – III

Factors affecting fashion charges – Psychological needs of fashion, psychology of fashion, Technology, Economical, Political, legal and seasonal. (12L)

UNIT – IV

Recurring silhouettes – changes in silhouettes; fashion cycle; Prediction fashion; Role of costumers as status symbol, clothes as sex appeal, self identity, cultural value. (13L)

UNIT – V

Understanding Fashion Designer: Designer types – Classicist, idealist, Influenced, Realist Thinking poet. (10L) (Total : 60L)

Reference:

1. Benneett" Femina Book of Fashion", Coleman & Co., Ltd., Mumbai (1998).

2. Jeaneettee. A. Jarnow, MiriarnGuerrerio, "Inside the Fashion Business", Mecmillion Publishing Company New York 1987.

3. Harriet T. Mcjimesey, "Art and Fashion in clothing selection", Thelowa state University Press, Ames, Lowa 1973.

Semester – III - Core Practical-III

DESIGNING AND CONSTRUCTION OF WOMENS WEAR

L T P C 0 0 4 2

1. SIX GORE SAREE PETTICOAT Feature:

- a) Six panel
- b) Frilled edge

2.FOUR GORE SAREE PETTICOAT

Features:

- a) Four panel
- b) Frilled edge

3.BLOUSE:

Features:

- a) front open
- b) Fashion neck
- c) Waist band
- d) Any sleeve
- 4.KATORI CHOLI

features:

- a) Kato
- b) Waist band
- c) Belt.

5.MIDDI

Features:

a)With (or) without open b)Waist band of elastic c)Panel

6. MIDDITOP

Features:

a)Back (or) Front open

b) Collar

c) Fashioned full sleeve with or without cuff.

7.MAXI

Features:

- a) Back open
- b) Trimming in front
- c) Fashioned neck
- d) Fashioned sleeve 8. NIGHTY

Features:

- a) Yoke
- b) Bell sleeve
- c) Gathered bottom
- d) Attaching trimmings.

9. SALWAR

Features:

- a) Tape or Elastic attached waist
- b) Designed bottom.

10. KURTA

Feature:

- a) Fashioned neck
- b) Fashioned sleeve
- c) Side seam slit.

11. LADIES PANT

Features:

- a) Waist band
- b) Zip attached
- c) Patch pocket

12. LAIDES SHIRT

Features:

- a) Half or Full open
- b) Collar
- c) Half or Full Sleeve

13. SURWAR

Features

- a) Gathered waist with tape or elastic
- b) Bottom design

14. KAMEEZ

Features:

- a) Fashioned front body
- b) Back or Front open
- c) Fashioned neck
- d) Fashioned sleeve.

Reference

- 1. Practical Clothing Construction Part-I & II Mary Mathew
- 2. Zarapkar System of Cutting K.R.Zarapkar
- 3. Easy Cutting Juvekar
- 4. Commercial system of cutting Juvekar
- 5. Dress making Smt. ThangamSubramaniam

Page 8 of 33

MSU/2017-18/UG-Colleges/Part-III(B.Sc. Fashion Designing and Apparel Making)

Semester – III - Allied-III

COMPUTER IN THE GARMENT INDUSTRY

L T P C

3003

Preamble: This course facilitates an understanding the role of computer in garment industry and orients the learners in the field of design .The learners are expected to know the application of computer in pattern making and grading in textile industry.

UNIT – I: Classification of computers:

Classification of computers, computer generations, computer specification, organization of computer sections. Types of storage devices (Primary and Secondary), input devices, output devices. (10L)

UNIT – II: Role of computers:

Role of computers in fashion industry-Information flow – CAD,CAM,CIM,CAA, PDC – Definition and Functions.

Computers in production planning and production scheduling, computerized colour matching system.

UNIT – III:CAD in Designing:

CAD in Designing Textile designing – Weaving, knitting and printing. Creating embroidery designs.

Garment designing -2D and 3D forms.

UNIT – IV:CAD in Pattern making and grading:

CAD in Pattern making and grading – system description – information flow – process involved pattern making, process involved in pattern grading. (10L)

UNIT – V:Computer application :

Computer application in fabric defect checking, laying / spreading, cutting marker planning, labelling –parts and functions. Computerized sewing machines. (9L)

References:

(Total :45L)

- 1. Clothing Technology HanneloreEberle et al, Verlaag Europa Lehrmittel, Vollmer Gmbh&Co4287, Haan Gruilen.
- 2. Computer Fundamentals P K Sinha, BPB Publications, Delhi (1992)
- 3. The technology of clothing manufacture Harold Carr ad Barbara Latham, Blackwell Ltd (1994)
- 4. Pattern Grading for Women's Cloths The Technology of sizing Gerry Cooklin, Blackwell Science Ltd (1990)

(8L)

(8L)

Semester – III - Allied Practical-III

BASIC ILLUSTRATION

L T P C 0 0 4 2

UNIT I

Lines and line drawings – object drawing and perspective view drawings, Enlarging and reducing motifs.Learning the usage of various drawing and sketching mediums – Pencils, Ink, Charcoal, Brushes, Crayons, Water color and Poster colors.

UNIT II

Drawing a stick figure for both normal and fashion figure.Forming a fleshy figure over a stick figure.

UNIT III

Dividing the figure into various parts using lines like plumb line, center front line, princess line, waist line, side seam, armhole, jewel neckline, panty line, bust line etc.,Practicing the art of creating textures.

UNIT IV

Illustrating pattern details – pockets, sleeves, yokes, skirts, trousers, tops, etc., Illustrating different types of ornaments and accessories.

UNIT V

Illustrating details of ruffles, cowls, shirring, smocking, quilting, draping, gathers, pleats, frills and flounces.Basic concept and types of silhouette.

References:

- 1. Fashion Design Drawings & Presentation, Ireland Patrick John.
- 2. Fashion Design Illustration: Children, Ireland Patrick John.
- 3. Fashion Design Illustration: Men, Ireland Patrick John.
- 4. Fashion Design Illustration, Ritu.
- 5. Foundation in Fashion Design and Illustration Julian Seaman.

Semester – III - Skill based core LTPC

TEXTILE PROCESSING 4004

Preamble: This course facilitates an understanding of dyeing techniques and orients the learners in the field of textile industry. The learners are expected to know the, pre- processing techniques and dyeing machines in the textile industry.

UNIT -1

Typical sequence of processes, Object and methods. Singeing, Desizing, Scouring, Synthetic Fiber Heat setting, Wool carbonizing, Weighting of silk.Wet processing equipment - Kier - J box - pad roll – U box – Roller bed – Conveyor steamer – stenter.

UNIT-II

Mercerization - Theory process - Methods - Chemicals - effects.Bleaching - Hypo chlorites -Hydrogen peroxide - sodium chlorite, Evaluation of bleached fabric - whiteness - absorbency chemical damage - residues. (11L)

UNIT –III

Dyeing – Definition, classification, Natural Dyes – vegetables dyes, Animal dyes, Mineral dyes, Synthetic dyes -Direct, Disperse, reactive, Acid, Basic, Azoic, Sulphur, Vat, and suitable for different fabrics. (12L)

UNIT-IV

Dyeing machines – fiber, yarn and fabric dyeing machines –loose stock fiber bale – hank package – jigger – winch – HT Beam jet – padding mangles. Garment dyeing machines.(13L)

UNIT-V

Wet processing of polyester, nylon, silk, wool and their blends.

Reference

- 1. PatersR.H.TextileChemistry Vol.I.II Textile institute,Manchester 1970.
- 2. ShenaiV.A. "Technology of textile processing"Vol.III.V.VII,VHSevalepuplications,BOMBAY 1981.
- 3. Lewis D.M." WoolDyeing"SDC publications England 1990

(10L)

TOTAL - 60L

(14L)

Semester – III - Non Major Elective - 1

EMBROIDERY AND SURFACE WORKING

L T P C 2002

Preamble: This course facilitates an understanding of traditional embroidery used in different states of India and orients the learners in the field of woven textiles of India. The learners are expected to know the hand embroidery stitches, machine embroidery stitches and surface trimmings.

UNIT-I

Hand embroidery:Running stitch, back stitch, stem stitch, blanket stitch, lazy daisy stitch, chain stitch, herring bone stitch, fish bone, seed stitch and cross stitch. (6L)

UNIT-II

Feather-single and double, rommanianstitch, fly stitch, long and short stitch, French knot, bullion knot, double knot, satin stitch and couching. (6L)

UNIT-III

Machine embroidery: Running stitch,cordingstitch,satinstitch,long and short,round stitch and eyelet work, (6L)

UNIT-IV

Traditional Indian embroidery:Kashida of Kashmir,kantha of Bengal,phulkari of punjab,embroidery of kutch and kathiawar,kasuti of Karnataka,chikankari of lucknow

(6L)

UNIT-V

Creating style through surface trimming: Cut

work, beadwork, sequencework, mirrorwork, patchwork, appliquéwork, quilting, fabric painting, drawn thread work, faggoting and smocking. (6L)

Reference :

(Total:30L)

- 1. Practical clothing construction part I &II -Mary Matthew
- 2. Indian Embroidery Kamala devi
- 3. Creative art of embroidery Barbara snook

Semester – III - Non Major Elective - 1

FASHION CONCEPTL T P C

2002

Preamble: This course facilitates an understanding of fashion design and orients the learners in the field of fashion design. The learners are expected to know the elements of design, principles of design, fashion designer and colors in fashion industry.

UNIT – I

Fashion – Style – Fad Definition – Sources of Fashion – Terms related to Fashion Industry –Boutique, Collection, Classic Chic Fashion Show, Fashion Trends and High Fashion.(6L)

UNIT – II

Role of designer – Researching the market. Design process, sample production. Sources of design inspiration. Types of designer – High fashion designer, Moderate designer, Stylist and free – lance designer. (6L)

UNIT – III

Colour – definition characters of colour, theory, colour schemes, colour psychology, visual and physical effect of colour, colour& texture, colour marketing systems. Value & intensity of colour.

$\mathbf{UNIT} - \mathbf{IV}$

Design and Principles of design, Definition, types of design – structural and decorative design, characteristics of a good design, elements of design, principles of design – Definition – Harmony – Proportion – Scale, balance – Rhythm – Emphasis - and its application in dresses. (6L) UNIT – V

Components of fashion – Silhouette, Texture, colour, Acceptance change, environment of fashion – Economic factors, sociological factors, Physical factors Psychological factors. Movement of fashion – cycling of fashion, Stages of fashion cycle. (6L)

(Total: 30L)

Reference:

1. Goldstein and Goldstein. Art in Everyday life. Mac Millan and co. New York.

2. Mathews M. Practical clothing construction.Part – III cosmic Press, Madras.

3. Markstorm, Dorthy and Jane. Guide to Modern clothings, MC, Graw Hill Boom Company, New York.

(6L)

Semester – IV - Core

Knit Fabric and Structure

L T P C 4 0 0 4

Preamble: This course facilitates an understanding of fabric forming techniques and orients the learners in the field of knitting .The learners are expected to know the classification of knitting , elements and functions of knitting machines in textile industry.

UNIT – I

Knitting– Definition.Differentiate weaving and knitting.Classification ofknitting.Comparison of warp and weft knitting.Basic knitting elements.(13L)

UNIT-II

Weft knitting –Definition .Yarn passage diagram of a circular knitting machine- knitting elements and mechanism.Rib, interlock, purl structure. Ornamentation – derivatives. Pique - Variations. Major types of yarns for weft knitting, Defects in weft knitted fabrics. (12L)

UNIT-III

Circular rib knitted machine – Elements and functions. Interlock knitting machine – Elements and functions. Non-apparel use of knit goods.

UNIT-IV

Jacquard knitting- Needle selection for jacquard and non-jacquard Pattern making –Pattern wheel, pattern drum, programmed tape. Calculations – Methods of finding courses per inch, wales per inch and loop length- GSM calculation- count and gauge relationship- efficiency calculation – tightness factor- Production in length and weight units. (12L)

UNIT-V

Warp knitting – Definition – knitting machines – Variations in warp knitting- Tricot – Variations in guide bars- Knitting cycle. Rachel – variation in guide bars – Knitting cycle. Differentiate Tricot from Rachel. Yarns for warp knitting – common faults in fabrics. (12L)

Reference:

(Total: 60L)

(11L)

1. Knitting Technology – D.B. Ajgaonkar

- 2. Knitting Technology David .J.Spencer
- 3. Textile Mathematics- J.E.Booth

Semester –IV - Core

FASHION MERCHANDISING AND MARKETING

LTPC

4004

Preamble: This course facilitates n understanding of fashion apparel merchandising techniques and orients the learners in the field of costume design. The learners are expected to know the different types of merchandising techniques, retailing and supply chain management in apparel industry.

UNIT-I

Merchandising – Definition, types .Fashion merchandising – principles and techniques.Merchandiser – role and function. (13L)

UNIT-II

Visual merchandising technique – Merchandising Ladder – Factors for Route card – Preparation – Effective Expediting procedures – samples and types of samples, Brand – Definition. Branding strategies. (12L)

UNIT-III

Apparel Merchandising – principles and techniques. Apparel Merchandising – Interface with production. (12L)

UNIT-IV

Marketing – definition – nature and scope. Classification of marketing functions – Buying, Assembling, Standardization and Grading, Packing and Packaging, Storage, Advertising, selling, Buying motives, Consumer decision making.Production planning and development, product line policies and strategies, production mix, factors influencing changes in product mix. (13L)

UNIT-V

Advertising – types – preparation of advertising for apparels. Advertising media used in apparel marketing. Advertising department and advertising agencies. (10L)

Reference:

(Total:60L)

- 1. Path for merchandising a step by step approach Moore Evelyn.C.
- 2. Inside the Fashion Business J. Arnow and K.G. Dickerson
- 3. Fashion Merchandising Laine stone, Jean A Semples .
- 4. Marketing Management Dr. B.K. ChatterjeeJaaico, Juice Publishing House, Bombay, 1982
- 5. Marketing Principles and method Philip C.F. and Duncon D.T, Irwin publications.

Semester –IV - Core

TECHNOLOGY OF TEXTILE FINISHING

L T P C 4004

Preamble: This course facilitates an understandingtextile finishing in the field oftextile industry. The learners are expected to know thechemical finishing, functional finishes and effluent plant in textile industry.

UNIT - I

Introduction to finishing – Definition, Importance, Classification. Mechanical Finishing – Sanforising – calendaring – Brushing – Decating – Milling. (13L)

UNIT - II

Chemical finishing – wash and wear finishing. Anti – crease finish, durable finish, Stiff Finish, Denim Finish, stone wash finish. Application of silicones in finishing processes. (12L)

UNIT - III

Functional finishes –water proof finishes – water repellent finish – flame retardant finish – soil release finish, antimicrobial finish. Nano Technology in Textile finishing. (12L)

UNIT - IV

Eco – friendly processing – Definition and importance.Study of conventional processing with eco – friendly processing. Enzymes – characteristics, Types. Application of enzymes in textile (12L)

UNIT - V

Effluent plant – effects from various plants –various process for treating waste water. (11L)

Reference:

- 1. Shenai V.A. "Technology of Finishing" Sevek Publications, Mumbai (1996)
- 2. Manivasaga. N. Treatment of Textile Processing Effluents'', Sakti Publications.
- 3. Bernard. P. Corbmann'' Textile Fibre to Fabric'' McGraw Hill, 1983.

(Total: 60L)

Semester – IV - Core practical - IV

COMPUTER AIDED DESIGN

L T P C 0 0 4 2

Create the following designs

1. Motifs / small designs.

Embroidery designs for kerchiefs, Neck lines Chest Prints for T - shirts

2. Children's Garments

Jabla – different styles Frocks –different styles Middi and Tops – different styles

3. Women's Garments

Churidhar – different styles Full gowns - different styles Middi&Tops - different styles Princess line Dress - different styles House coats, Aprons, Nighties

4. Men's Wear

S B Vest T- Shirt - different styles Shirts - different styles Kurtapyjama - different styles

- 5. Create logos for branded companies.
- 6. Create label for garments / companies
- 7. Prepare charts for production planning and scheduling.

Semester – IV - Allied-IV

PRINTING TECHNOLOGY

L T P C

3003

Preamble: This course facilitates an understanding of printing techniques and orients the learners in the field of wet processing .The learners are expected to know the printing machine, styles of printing and printing methods in textile industry.

UNIT – I

Introduction to printing – definition, Difference between printing and dyeing –preparation of cloth for printing – cotton, wool, silk, viscose rayon, and polyester. Preparation of printing paste – essential ingredients used in printing paste – various thickening agents and it's preparation. (10L)

UNIT – II

Methods of printing – definition, classification – direct, discharge and resist styles, conversion style and crimp style. Foam printing, flock printing, Kalamkari printing, Bubble printing and multi colour printing. After treatments for printed goods. (10L)

UNIT – III

Printing – Types of Machine for printing, preparation of screen, table and squeezes used for screen-printing. Automatic screen printing, roller printing-faults and it's rectification, Rotary printing and transfer printing. Advantages and disadvantages of various methods of printing. (8L)

UNIT – IV

Stencil printing – preparation of stencils and different stencil techniques used in printing. Block printing – Preparation of hand blocks and application of block on apparel, Tie and Dye techniques – types of tie and dye techniques. Batik printing – Learning the art of batik printing (8L)

UNIT - V

Finishing – Temporary, permanent and various types of fibremercerisation. (9L)

Reference: (Total:45L)

- 1. Beginners Guide to fabric Dying and printing By Shirat and Rabirision. P. Technical Books, London, 1982.
- 2. Technology of Textile Printing, Prayag. R.S., L.R. PrayagDhaund, 1985
- 3. The Thames &Huddson manual of Textile Printing, story, Joyce Thomas and Hudson, London, 1992.

Semester – IV - Allied Practical-IV

TEXTILE PROCESSING

LTPC

Prepare the following

0042

- a. Preparation of soaps and detergents
- b. Preparation of natural and commercial starches
- c. Application of stain removal methods on fabrics
- d. Preparation of samples for processing
 - Desizing
 - Scouring
 - Bleaching
 - Mercerising
- e. Dye the given fabric using suitable dye
 - Reactive dye (Hot & cold)
 - Direct dye
 - Sulphur dyes
 - Vat dyes
 - Disperse dyes
 - Acid dyes
 - Basic dyes
 - Vegetable dyes (any one)
- f. Printing : preparation of samples for printing- cotton, polyester & silk.
 - 1. Preparation of printing paste.
 - 2. Create designs with block printing vegetable, wooden block.
 - 3. Create designs with stencil printing for chest/neck & yoke designs
 - 4. Tie & dye designs single, double &multi color.
 - 5. Batik printing single, double &multi color.
 - 6. Print a design using screen printing methods.

Semester – IV - Skill based core L T P C

ENTREPRENEURIAL DEVELOPMENT

L T P C 4004

4004

Preamble: This course facilitates an understandingConcept of Entrepreneurshipand orients the learners in the field of clothing industry. The learners are expected to know the Project Identification, Institutional service to Entrepreneur and Institutional finance to Entrepreneuringarment industry.

UNIT - I

Concept of Entrepreneurship: Definition Nature and Characteristics of Entrepreneurship – Functions and types of Entrepreneurship phases of EDP. Development of women Entrepreneur and rural Entrepreneur – including self employment of women council scheme. (14L)

UNIT – II

The Start- up process, Project Identification – Selection of the product – Project formulation evaluation – Feasibility Analysis, Project Report. (11L)

UNIT - III

Institutional service to Entrepreneur – DIC, SIDO,SIC,SISI,SSIC,SIDCO,ITCOT, IIC, KUIC and commercial Bank. (12L)

UNIT –IV

Institutional finance to Entrepreneur – IFCI, SFC, IDBI, ICICI, TIIC, SIDCS, LIC AND GIC, UIT, SIPCOT – SIDBI and commercial Bank venture capitals. (13L)

UNIT –V

Incentives and subsidies – Subsided Services – Subsidy for market. Transport – seed capital assistance – Taxation benefit to SSI – role of Entrepreneur in export promotion and import substitution. (10L)

REFERENCES:

(Total :60L)

- 1. Entrepreneurial Development C.B.Gupta ad N.P. Srinivasan
- 2. Fundamentals of Entrepreneurship and small Business RenuAroraad S.KI. Sood
- 3. Entrepreneurial Development S.S. Khanka
- 4. Entrepreneurial Development p. SaravanaVel
- 5. Entrepreneurial Development S.G. Bhanushali
- 6. Entrepreneurial Development Dr. N. Ramu

Semester – IV - Non Major Elective - 2

Fashion Illustration

L T P C 2 0 0 2

Preamble: This course facilitates an understanding of fashionillustration and orients the learners in the field of fashion design. The learners are expected to know the human anatomy and stylized drawing in fashion industry.

UNIT-I

Human anatomy-study of human anatomy in terms of shapes, sizes and movements.(6L)

UNIT-II

Drawing a flesh figure –drawing a fleshy figure from a stick figure. Dividing the figure into various parts using lines like plumb line, centre front line, princess line, waist line, side seam, arm hole, jewel neckline, pantyline, bust line etc.(6L)

UNIT-III

Drawing the face of the croquic- drawing the face of a fashion figure proportion and placement of facial features, each feature to be dealt separately and faces to be analyzed into croquic face.(6L)

UNIT-IV

Drawing hairstyles and accessories on the croquic.drawing various fashionable hair styles and accessories on the croquic.(6L)

Unit-V

Women's project, Create a mood board-color palette- customer profile-illustration-specification sheet. (6L)

REFERENCE:

(Total:30L)

- 1. The style source book- Judith miller, Stewart, tabori and chang.Newyork
- 2. Fashion drawing the basic principles by Anne Allen and Julian seaman
- 3. Design studied by Manmeetsodhia Kalyani publishers.

Semester – IV - Non Major Elective - 2

Fibre to Fashion

L T P C 2 0 0 2

(6L)

Preamble: This course facilitates an understanding of fibre to fashion and orients the learners in the field of textile. The learners are expected to know the Properties and uses of natural fibres, spinning and yarns in textile industry.

UNIT-I

Textile fiber – Definition – Properties of textile fiber – classification of fiber. Brief study and important properties of cotton, silk, wool rayon and polyester best fibers – Influences of fiber properties on fabric characteristics (6L)

UNIT-II

Yarn definition, Classification, types

UNIT-III

Weave – definition, Classification. Study on basic weaves. (6L)

UNIT-IV

Fashion – Style – Fad Definition – Sources of Fashion – Terms related to Fashion Industry – Boutique, Collection, Classic Chic Fashion Shows, Fashion Trends and High Fashion. (6L)

UNIT-V

Role of designer – Researching the market. Design process, sample production. Sources of design inspiration. Types of designer – High fashion designer, Moderate designer, Stylist and freelance designer. (6L)

(Total:30L)

Semester V - Core

APPAREL COSTING

LTPC 4004

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

UNIT – I

Principles of costing – requirement of good costing system – cost unit- types of cost – Fixed cost – Variable cost – Semi variable cost – Conversion cost – Replacement cost – Differential cost – Imputed cost – Sunk cost – Research cost – Development cost – Policy cost – Shutdown cost. (14L)

UNIT – II

Elements of cost – Direct material cost – Direct expenses – Direct wages – Indirect material cost – Indirect expenses – Indirect labour overheads – Production overhead – Administrative overhead – selling overhead – Distribution overhead – Work cost – Cost of production – Total cost. (11L)

UNIT – III

Cost estimation of yarn, fabric and components, dyeing, printing and finishing. Cost estimation for cutting, stitching, checking, packing, forwarding, shipping and insurance. (12L)

UNIT – IV

Cost of product development. Analysis of Design cost – profit design – product profitability. Function of cost control – Apparel manufacturing cost categories – sales cost control – purchasing cost control – production cost control.

(13L)

UNIT – V

Costing of various garments – Children's wear, Women's wear, Men's wear. (10L) (Total: 60L)

Reference:

- 1. Apparel Manufacturing Analysis Solinger Jacob
- 2. Production Costing Khanna Publications
- 3. Development Banks and Enterprises
- 4. Fashion Design and product Development Harold Carr/ John

Semester V - Core

HOME TEXTILE

L T P C 4004

Preamble: This course facilitates an understanding of furnishing materials and orients the learners in the field of home textile .The learners are expected to know the Floor coverings, Living room furnishing and doors and windows of textile industry.

UNIT – **I**:Different types of furnishing materials:

Introduction to home textiles, definition, types of home textiles, factors influencing selection of home textiles, recent trends in home textiles. (13L)

UNIT – II:Floor coverings:

Floor and wall coverings – definition, types of floor covering – hard, soft and resilient floor coverings and uses and care and maintenance of floor coverings. Wall covering – definition, uses, care and maintenance of wall coverings. (12L)

UNIT – III:Doors and Windows:

Door and window treatments – definition and parts of door and windows, curtains and draperies – definition and materials used for curtains and draperies –swags. Accessories – rods hook, rails, racks, curtain tape pins. (12L)

UNIT – **IV:** Living room furnishing:

Soft furnishings for living and bedlinen.. Introduction to living and bedroom linens, types – sofa, sofa covers, wall hangings, cushion, cushion covers, upholsteries, bolster and bolster covers, bed sheets, covers, blankets, blankets covers, comfort and comfort covers, bed spreads, mattress and mattress covers, pillow and pillow covers, pads, uses and care. (12L)

UNIT – V:Kitchen and Table Linens:

Soft furnishings for kitchen and dining, types of kitchen linens-kitchen towel, aprons, dish cloth, fridge, grinder and mixie covers, mittens, fridge holders – their uses and care. Types of dining –table mat, dish/pot holders, cutlery holder, fruit baskets, hand towels – uses and care.Bathroom linens – types, uses and care. (11L)

(Total : 60L)

Reference :

- 1. Jay Diamond, Ellen Diamond Fashion Apparel Accessories and Home Furnishings.
- 2. PremavathySeetharaman, Praveen Pannu Interior Design and Decoration.
- 3. DurgaDelukar, House hold Textiles and laundry work.

Semester V - Core

CARE AND MAINTENANCE OF TEXTILES L T P C 4004

Preamble: This course facilitates an understandingcare and maintenance of textilesand orients the learners in the field of clothing industry. The learners are expected to know thelaundry soaps, Laundry equipment and dry cleaning in textile industry. **UNIT-I**

Types of Water- Hard and soft water.Hardness of water - Temporary and permanent hardness. Problems caused by hard water. Methods of softening water. Care and labeling.(**13L**) **UNIT-II**

Soaps and Detergents - Definition, Manufacturing process, Properties and their cleansing action. Indigenous cleaning agents like Rita nut, Shikkakai and Bran.Dry cleaning – Using Absorbents, using grease solvents.(12L)

UNIT-III

Stiffening agents-Natural and commercial starches.Bleaching agents, Bluing agents.Optical brighteners.Additional laundering agents-Acidic, Alkaline and Others.Stain Removal. (12L) UNIT-IV

Laundry equipment – for storage, for steeping and washing – wash board, suction washer, wash boiler, washing machine. Drying equipment – outdoor and indoor types. Irons and ironing board – types of iron (box, flat, automatic, steam iron). ironing board – different types . (13L)

UNIT – V

Principles of washing – Suction washing, washing by kneading, rubbing, scrubbing and squeezing, washing by machine – process details and machine details.Laundering of different fabrics – cotton, linen, woolen, silk, rayon, nylon, and colouredfabrics.Special types of laundry – water proof coats, silk ties, leather goods, furs and laces. (10L)

REFERENCES:

(Total:60L)

- 1. Household Textiles and Laundry Work DURGA DELUKAR.
- 2. Fundamentals of Textiles and Their Care DANTYAGI.S.
- 3. Shenai V.A. "Technology of Textile Processing" Vol III, V, VII & VIII Sevle publication Mumbai 1981.
- 4. Lewis D.N. "Wool Dyeing" SDC Publ. England 1990

Semester V - Core practical - V

L T P C 0 0 4 2

Designing and Constructing Men's wear

UNIT – I

Designing and drafting of shirts

- 1. Slack Shirt : Features
 - (A) Open Collar
 - (B) Patch Pocket
- 2. T Shirt : Features (A) Front Half open – Zip Attached
- 3. Full Sleeve : Feature
 - (A) Open Collar
 - (B) Patch Packet
 - (C) Full Sleeve with cuff

UNIT – II

- 1. Pleated Trousers : Features
 - (A) Pleats in Front
 - (B) Darts At Back
 - (C) Side Pockets
 - (D) Fly with Buttons or Zip
 - (E) Belt with Adjustable strap.

2. Bell Bottom : Features

(A) Bell Bottom

3. Narrow Bottom : Features

- (A) Narrow Bottom
- (B) Pleats
- (C) Hip Pockets

UNIT – III

Designing and Drafting Kurates

- 1. Kalidar Kurta : Features
 - (A) Kalipiece
 - (B) Side Pocket
 - (C) Stand Collar

(D) Half Open

2. Nehru Kurta : Features

- (A) Half Open
- (B) Round Neck
- (C) With or without Pocket
- (D) Full Sleeve

UNIT – IV

Designing and Drafting Jeans and Pyjama

- 1. Jeans : Features
 - (A) Tight Fitting(B) Jeans Cut(C) Pockets
- 2. Pajamas : Features (A) Elastic or Tape Attached Waist (B) Fly

UNIT - V

Designing and Drafting Single Breast coat and Night Dress

- 1. Single Breast Coat : Features
 - (A) Coat Collar(B) Coat Sleeves(C) Pocket
- 2. Night Dress
 2. Features

 (A) Round Neck or Collar Attached
 (B) Overlap Front
 (C) Tap Attached

Reference:

- Scientific Grament Quality "by K. M. Hedge & Sons Plot No. 43, Somuwar pet, Poona 411011.
- 2. "Easy Cutting" By Juvkar Commercial Tailors Corporation Pvt. Ltd., 166, Dr. Ambedkar Road, Dardar.
- 3. "Commercial System of Cutting" By Juvkar Commercial Tailors Corporation Pvt. Ltd., 166, Dr. Ambedkar Road, Dardar.
- 4. "Zerapkar System of Cutting by K. R. Zreapkarnavneet Pub Ltd. Mumbai / Ahmedabad /Nagpur.
- "Dress Making" by SmtThangamSubramaniam, Bombay Tailoring & Embroidery college, 32, North Part St, Ambatur, Chennai.

Semester V - Major Elective

TECHNICAL TEXTILES

L T P C 4004

Preamble: This course facilitates an understandingtechnical textiles and orients the learners in the field oftextile industry. The learners are expected to know the medical textiles, geo textiles and protective textiles in garment industry.

UNIT – I

Technical Textiles – Definition and Scope. Categories of Tech	nical Textiles (12L)

UNIT – II

Medical Textiles – Classification. Fibres used and their properties required. Medical textile Products – Properties, functions. (12L)

UNIT – III

Geo textiles – Definition, Fibers used in geo textiles –requirement of fibers.	
Functions of Geo Textiles – separation, Filteration, Drainage, Reinforcement.	(13L)

UNIT - IV

Textiles for automotive industry. Suitable fibers for automotive industry Safety devices –Airbags – Materials used- types of fabric – Seat belts – Types, Fabrics used. (11L)

UNIT - V

Brief study on Protective textiles – Bullet Proof fabrics –fire retarding fabrics- high temperature fabrics –High visibility clothing.Fibers used and Properties of fabrics, smart textiles and intelligent textiles. (12L)

Reference:

1. The design of Textiles for Industrial Application – P.W.Harrison

- 2. Protective Clothing Bajaj. P. And Sengupta A.K
- 3. Textiles : Fibre to fabric Corbmann. B.P.
- 4. Performance of Protective Clothing Johnson. J.S. and Mansdork. S.Z.

(Total: 60L)

Semester VI - Core

TEXTILE TESTING AND QUALITY CONTROL L T P C 4004

Preamble: This course facilitates an understandingtextile and quality control andIdentification of Textile Fibreand orients the learners in the field oftextile industry. The learners are expected to know thefibreanalysis, yarn analysis and fabric analysis in textile industry.

UNIT – I

Introduction to Textile Testing and Quality Control – Definition, Importance of Textile testing and quality control, Routine tests performed in Textile Industry. (14L)

UNIT – II

FIBRE ANALYSIS:Identification of Textile Fibre – Burning, Solvent, Longitudinal and
Cross sectional view of Cotton, Wool, Polyester, Nylon, Acrylic fibres. Cotton fibre length, strength-
single & bundle strength - Fibre fineness.(12L)

UNIT – III

YARN ANALYSIS: Yarn numbering, wales, courses, density, evenness Yarn strength, Twist and crimp. Colour fastness tests in Textiles – Crocking, Perspiration, Sunlight, Laundering.(11L)

UNIT – IV

FABRIC ANALYSIS: Length, Width, Bow, Skewness, Weight, Thickness, Breaking Strength, Abrasion Resistance, Crease Recovery, Stiffness of fabrics and drapability. (12L)

UNIT – V

Additional test for fibres and Yarn –Microscope, Weight method, Air flow method, Wet strength and elongation of filament yarn, Knot strength, Loop strength for filament yarn, Crimp.(11L)

Reference :

(Total:60L)

- 1. Principles of Textile Testing BOOTH J.E.
- 2. Technology of Textile Properties -MANJORCE. A.TAYLOR.
- 3. Textile Testing and Quality Control GROUER AND

(12L)

	Export- Import bank.	(13L)
UNIT-V		
Marketing -	Market development assistance	
	100% Export Oriented scheme of the government of India	
	Free trade zone.	
		(I0L)

Reference:

1. Effective Export Marketing of Apparel – Darlie O. Koshy.

2. Export Marketing – A practical guide to exporters – S. Sivaramu.

(Total:60L)

MSU/2017-18/UG-Colleges/Part-III(B.Sc. Fashion Designing and Apparel Making)

Semester VI -Core

APPAREL EXPORT TRADE DOCUMENTATION

LTPC

4004

(11L)

Preamble: This course facilitates an understanding of export trade and orients the learners in the field of marketing .The learners are expected to know globalization features ,export promotion and institutional finance in apparel industry.

UNIT-I

Export marketing of apparel, Global seen, Prospects for Indian apparel in overseas market. (14L)

UNIT-II

A.E.P.C.'s role in the administration of export entitlement policy export promotional activities of A.E.P.C

UNIT-III Facilities available for garment exporters Cash compensatory support Duty drawback

Export finance through banks

Export credit Guarantee Corporation

UNIT-IV

Semester VI - Core

CLOTHING CARE AND WARDROBE PLANING L T P C 4004

UNIT - I

Classification and introduction to laundry processes (2) -(i) Wet and (ii) dry cleaning - Materials equipments used in laundry. (14 L)

$\mathbf{UNIT} - \mathbf{II}$

Bleaches – Classification, commercial products, application of bleaches to various fiber and fabric. (11L)

UNIT – III

Wardrobe planning and factors to be considered while selecting clothes for different age groups (men and women) (12L)

$\mathbf{UNIT} - \mathbf{IV}$

Additives used in laundry – optical brighteners: bleaching agents vs. fluorescent whiteners.(13L)

UNIT – V

Preservation and storage – Apparel and household linen. Disinfections of clothes. (10L)

Reference;

- 1. DulkarDurga (1976): Household Textiles and laundry work, Delhi Atmaram and sons.
- **2.** Alexander, R. R (1977) : Textiles products selection, use and care Boston Houghton Miffin Co.
- **3.** Joseph Marjory (1981) : Introductory Textile Science, New York, Holt, Rinehart and Winston.

(Tatal :60L)

Semester VI - Core

APPAREL PRODUCTION AND QUALITY MANAGEMENT

LTPC

4004

Preamble: This course facilitates an understanding of structure and sectors of clothing industry and orients the learners in the field of clothing industry. The learners are expected to know the production systems , Production planning and control of raw material ingarment industry.

UNIT-I

Quality definition – Quality and its necessity . Introduction – Inspection its importancefunctions of inspection – systems of inspection – types of inspection – hundred percent inspection – sampling inspection – comparison of 100% inspection and sampling inspection. (14L)

UNIT-I

Quality control in Pattern Making, Grading.Marking, Stitching and Production Analysis – Co coordinating department activities – Distribution of tickets and Maintenance of records – Establishing Merchandising standards.The quality control of trims and fasteners, sewing thread and accessories. (11L)

UNIT-III

Management: Meaning and definition, Functions and Principles of Management – Planning, organizing, staffing, directing and controlling, Production and productivity .(12L)

UNIT-IV

Human resource management: Objectives – Functions and principles of HRD. Recruitment / Training of Supervisors and Executives. (13L)

UNIT-V

- a. Quality standards, SQC Control charts Sampling its importance and use of sampling techniques. ISO 9000, ISO 14000. Total quality management, quality circles.
- b. Marketing channels, Advertising, Sales promotion, Material management meaning and importance (10L)

Reference :

(Total:60L)

- 1. Apparel Manufacturing Handbook Jacob Solinger.
- 2. Modern production /Operations, Management ElwoodsBuffa and Rakesh
- 3. Industrial Engineering and Management O.P..Khanna

Semester VI - Core practical - VI

L T P C 0 0 4 2

TEXTILE TESTING & QUALITY CONTROL

- 1. Identification of fibre
 - Fibre length
- 2. Identification of yarn
 - Yarn count (Pick glass &Beesley balance)
 - Yarn twist

3. Identification of fabric

- Thickness testing
- Stiffness testing
- Abrasion testing
- Drape testing
- Crease recovery
- Color fastness laundry, abrasion (wet, dry), sunlight

Semester VI - Major Elective

FASHION PORTFOLIO

LTPC 4004 Preamble: This course facilitates an understanding of portfolio presentation and orients the learners in the field of fashion .The learners are expected to know the concept of portfolio development in fashion industry. **UNIT –I:**Concept of Portfolio Development: Concept of Portfolio Development – Environment (Natural Factors), Season, Colour, Culture, Fabric design, Occasion, Presentation Technique. (14L)UNIT –II Study on Mood board, fabric Board, Theme Board, and Story Board (11L) UNIT –III **Portfolio Presentation of Kid's Wear** Mood board - Colour Paletter - Customer Profile - fabric development Chart - Design Development Chart – Specification Sheet. (12L)UNIT -IV Portfolio Presentation of Women's Wear Mood board – Colour Paletter – Customer Profile – fabric development Chart – Design Development Chart – Specification Sheet. (13L) UNIT-V **Portfolio Presentation of Men's Wear** Mood board - Colour Paletter - Customer Profile - fabric development Chart - Design Development Chart - Specification Sheet. (10L)

(Total:60L)

Reference:

1. Jenny Devis – A Complete Guide to Fashion designing, Abishek, Publications, 2007