# BHARATHIAR UNIVERSITY –COIMBATORE – 641046.

**B.Sc. APPAREL FASHION DESIGN DEGREE COURSE**

(For the students admitted during the academic year 2014-2015 Batch onwards)

**Scheme of Examination**

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<th>Part</th>
<th>Study Components</th>
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<td>B Advanced Illustration (P)</td>
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<td>C Care and Maintenance of Textiles</td>
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<td>A Fashion Ethnography (P)</td>
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<td>B Human Values and Professional Ethics</td>
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<td>C Entrepreneurial Development</td>
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<td>A Fashion Photography (P)</td>
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<td>B Fashion Presentation and Choreography</td>
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<td>C Computer Aided Textile Designing (P)</td>
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@ No University Examinations. Only Continuous Internal Assessment (CIA)

# No Continuous Internal Assessment (CIA). Only University Examinations.

** Theory 25/75 Marks, Practical 40/60 Marks

* For Viva: 20 Marks & report: 80 Marks.
SEMESTER I CORE PAPER I - DESIGN CONCEPTS AND METHODOLOGY

UNIT I
INTRODUCTION
Introduction to fashion - Fashion terminologies. Types of Design- basic, structural and decorative. Elements of design - form, shape, space, line, color and texture. Principles of design- balance-formal, informal and radial, proportion, emphasis, rhythm and harmony

UNIT II
LINES & SILHOUETTES
Various types of lines, its functions and its characteristics. Silhouettes in clothing, optical illusion created by various combinations of lines

UNIT III
COLOR THEORY
Color wheel - primary, secondary and tertiary colors. Color scheme - Hue, Value and chroma, tint, tone, shade. Color harmony, Seasonal colors, Color psychology

UNIT IV
COLORING MEDIUM
Introduction to different coloring medium and its applications. Design any art work using pencils, ink, charcoal, crayons, water color & poster color - Render textile surface using any color medium

UNIT V
FASHION DETAILS
Different types of Neck line, Collar, Sleeve, Cuff, Waistline, Bow, Tie, Placket, Pocket, Skirt, Trouser, Ruffle, cowl, shirring, smoking, quilting, yoke, draping, gather, pleat, appliqué, frill and flounce.

REFERENCES
SEMESTER I CORE PAPER II - FUNDAMENTALS OF APPAREL DESIGNING

UNIT I
ANATOMY OF HUMAN FIGURES
Proportion and disproportion in human figures - Normal figures measurements and its importance - Sequence of taking body measurements for various age group and gender-recording of measurements - standardization of body measurements - Standard body measurements for children, ladies and gents-measurement and size specification for various genders and age groups for European countries: America, Canada, Japan, Australia, eastern countries.

UNIT II
PATTERN MAKING
Concept of pattern making - Different types of pattern making - Principles for pattern drafting – Reduced scale pattern making - Draft 1/4th pattern for basic bodice, sleeve, collar, cuff and skirt – Concept of pattern grading – Types of grading

UNIT III
PATTERN VARIATION I – KNITS & WOVEN
Draft 1/4th pattern for sleeve variations – half sleeve, puff sleeve, cap sleeve, petal sleeve, leg-o-mutton sleeve, and bishop sleeve. Draft 1/4th pattern for collar variations – Shirt collar, convertible collar, stand collar, peter-pan collar, shawl collar, tie collar and roll collar

UNIT IV
PATTERN VARIATION II – KNITS & WOVEN
Draft 1/4th pattern for cuff variations – Basic cuff, French cuff and continuous cuff. Draft 1/4th pattern for neck variations – round, V neck, jewel, square, scallop, hey hole, sweat heart, scoop and asymmetrical neck line. Draft 1/4th pattern for skirt variations – A line, Flared, Gored, pegged, yoke, umbrella and wrap around skirt

UNIT V
PATTERN MANIPULATION
Introduction to fitting – principles of a good fit – fitting techniques. Introduction to fullness – method of introducing fullness in garments - gathers, pleats, flares, flounces, smocking tucks & darts, methods of controlling fullness. Dart manipulation and its different types – manipulation of darts into classic and princess style line.

REFERENCE
2. ‘Dress making simplified’ Blackwell science,1987
SEMESTER I CORE PAPER III PRACTICAL I – FASHION SKETCHING

LIST OF EXPERIMENTS

1. Object drawing and perspective drawing
2. Various shading methods
3. Techniques of Enlarging & Reducing the motifs
4. Art of creating textures.
5. Drawing heads, hands, arms, legs, and feet in different angles.
7. Various types of hair styling and application of cosmetics.
8. Practice to draw the accessories.

Note: The above practice will be carried out using different drawing and sketching medium such as pencils, ink, charcoal, brushes, crayons, water color & poster color.

REFERENCES:
8. Patricia Monahan, Step by Step Art School – Water Colour
SEMESTER I ALLIED PAPER I – TEXTILE FIBERS AND YARNS

UNIT I
TEXTILE FIBERS I
Classification – General properties – Identification of textile Fibers - Polymer – Terminologies – Polymerization types - Types of polymers – Methods of filament spinning - Drawing and effects.

UNIT II
TEXTILE FIBERS II
Wool: Producing countries - Grading - Fiber morphology – Chemical structure & composition - Properties - End uses - Felting – Study of Woolen and Worsted Yarns – End uses - Brief study on specialty hair fibers and uses.

UNIT III
SEMI/SYNTHETIC FIBERS
Rayon - Regenerated and modified cellulose -Viscose rayon process flow -
HWM Fibers - Comparison of properties between viscose and HWM rayons –End uses – Bamboo Fiber- Process flow - Properties - End uses.
Synthetic Fibers: Common steps for the production – Brief study about Polyamide, Polyester, Poly Acrylic, and Spandex – Process flow for the production of Nylon 6,6, Nylon 6, Polyester filaments and staple Fibers. Individual Fiber properties and trade names – End uses- Texturisation and it’s effects, Types of textured yarns - Methods of texturisation – End uses of textured yarns.

UNIT IV
YARN
Classification of yarn types- Staple spinning system - Types – Cotton Yarn Production sequence and objectives – Principles of short staple spinning – Comparison of carded and combed yarn - Winding and it’s objects – Waxing and it’s significance – Properties required for export quality hosiery yarns. Study of yarn twist and it’s importance – Types of yarn twist – Various yarn & package defects.
UNIT V
BLENDED YARN
Types of blending – Benefits of blending – Prominent blended yarns of fashion apparel market
- Double yarn - Properties –Uses. Classification of Sewing threads & applications – Thread
prerequisites – Essential properties - Production process of spun Polyester sewing thread
& core spun sewing thread – Advantages. Yarn numbering systems.

REFERENCES:

12. Eric Oxtoby, Spun Yarn Technology
15. K.P.Chellamani, Yarns and Technical Textiles.
17. Debbie Ann Gioello, Understanding Fabrics: From Fiber to Finished Cloth, Fairchild
SEMESTER II CORE PAPER IV – HISTORY OF COSTUMES

UNIT – I
INDIAN COSTUMES
Pre Vedic Era, Vedic & Post Vedic Era: Mauryan, Satvahana, Kushan Dynasty, Gupta Dynasty - Mughal Period - Costumes of the British Raj. Traditional Costumes & Textiles of India

UNIT – II
WESTERN COSTUMES
Origin Of Costume - Development Of Costume - Beginning Of Civilization – Ancient Greek Costumes - Ancient Roman Costumes - Ancient Egyptian Costumes

UNIT – III
EARLY CENTURY COSTUMES

UNIT – IV
COSTUMES FROM FRENCH REVOLUTION TO EARLY 20TH CENTURY
Revolutionary Period (1789 –1815) - The Monarchy (1789 –1792) - The Republic (1792-1795) - The Directory Period (1795–1799) - Consulate And Empire (1799–1815) - Costumes during 19th century - early 20th century

UNIT – V
CONTEMPORARY FASHION
Costumes for Men - Women - Kids from early 20th Century to Contemporary Fashion

REFERENCE:
1. History of Costumes in the West - Francois Boucher
2. An Illustrated History of Fashion (500 Years of Fashion Illustration) – Alice Mackrell
3. History of 20th Century Fashion – Elizabeth Ewing [Revised By - Alice Macrell]
4. The Illustrated Encyclopedia of Costume and Fashion – Jack Cassin – Scott
5. Evolution of Fashion
6. Guide to Historic Costumes
7. History of Indian Costumes
8. Ancient Indian Costumes
SEMESTER II CORE PAPER V PRACTICAL II - PATTERN MAKING AND GRADING – I

I. Draft the pattern for given men’s style/sample and also grade them according to the specification.
   1. Basic T shirt with front patch pocket
   2. Raglan T shirt with full sleeve
   3. Polo T shirt with short sleeve
   4. Bermuda with side pocket
   5. Hooded T shirt with front pocket
   6. Vest RN, RNS
   7. Briefs, Trunks
   8. Track pant

II. Draft the pattern for given women’s style/sample and also grade them according to the specification.
   1. High neck T shirt with full sleeve
   2. V neck T shirt with half sleeve
   3. Kimono sleeve T shirt
   4. Legging
   5. Skirt
   6. Night pajama set

III. Draft the pattern for given kids style/sample and also grade them according to the specification.
   1. Sleeveless jhabla
   2. Overall with full sleeve
   3. Bloomer

SEMESTER II CORE PAPER VI PRACTICAL III – FASHION ILLUSTRATION

LIST OF EXPERIMENTS

1. Draw stick, geometric, & flesh figures for men & women using 10 head theory.
2. Draw stick, geometric, & flesh figures for men & women using 12 head theory.
3. Practice children illustration for different age group.
4. Develop different poses of man, woman and children from the pictures in magazine.
5. Practice to draw landscape, architecture & interiors.
6. Sketch “Still Life”.
7. Design various garment styles for men, women and kids.
   i) Formal wear
   ii) Casual wear
   iii) Party wear
   iv) Seasonal wear
   v) Sportswear
8. Temple/Monument/Archeological study.
9. Sketch a logo for your own boutique.

REFERENCES:

SEMESTER II ALLIED PAPER II – COMPUTER APPLICATIONS PRACTICAL

1. Prepare your class time table using table option in MS Word.
2. Prepare an interview call letter and send using mail merge in MS Word.
3. Design the given advertisement using in MS word. Apply various fonts and pictures.
4. Create line, bar and pie charts for the given data using MS Excel.
5. Prepare students mark statement with the following fields Roll No, Name, Sub1, Sub2, Sub3, Sub4, Sub5. Calculate Total, Average, Result and Grade. Apply Conditional formatting.
6. Prepare employee salary list with fields Employee No, Employee Name, Experience, Basic Pay, HRA,DA,LIC,PF. Calculate Gross Salary & Net Salary based on the following conditions

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7. Prepare a power point presentation about a product. Apply animation and slide timing.
8. Prepare a power point presentation about an organization with organization chart. Apply different slide layouts.
9. Search the given topic using any search engine and prepare a report using MS word.
10. Create an EMaill ID and use various mail features.
SEMESTER III CORE PAPER VII – GARMENT MANUFACTURING TECHNIQUES

UNIT I
CUTTING ROOM PLANNING

UNIT II
CUTTING AND SEWING MACHINERIES

UNIT III
STITCHES AND SEAMS
Basic principles of stitch formation – classification of stitches based on federal standards -- detailed study on application of all stitches - comparison of stitches - Thread calculation for different stitches. Detailed study on seam classification as per federal standards –seam finishes - sewing thread - its types and ticket numbering

UNIT IV
SEWING GUIDES AND GARMENT FINISHING MACHINERIES

UNIT V
SEWING ACCESSORIES AND ASSEMBLY DEFECTS

REFERENCES
1. Apparel Manufacturing – Hand Book – Jacob Solinger
2. Technology Of Clothing Manufacture – Herold Carr & B.Latham
3. Knitted Clothing Technology – T.Bracken Berry
4. Technology Of Stitches & Seams – Coats Viyella Limited
5. Sultan Chand& sons”Management Accounting”New Delhi,2nd edition 1998

**SEMESTER III CORE PAPER VIII PRACTICAL IV PATTERN MAKING AND GRADING – II**

I. Draft and construct the pattern for given men’s style/sample and also grade them according to the specification.

   1. Formal shirt full sleeve
   2. Formal trouser with side and welt pocket
   3. Boxer short side and patch pocket
   4. Men’s kurta with stand collar & side kurta pocket
   5. Night robe with patch pocket
   6. Baggy pant with pouch pocket

II. Draft and construct the pattern for given women’s style/sample and also grade them according to the specification.

   1. Simple salwar
   2. Patiala salwar
   3. Simple kameez with side slit
   4. 8 part umbrella kameez with puff sleeve
   5. Sari blouse
   6. Petticoat
   7. Nighty with yoke & butterfly sleeve
   8. Apron

III. Draft and construct the pattern for given kids style/sample and also grade them according to the specification.

   1. Bib
   2. Chemise
   3. Gathered frock with cap sleeve
   4. Pedal pusher
   5. Umbrella frock
SEMESTER III CORE PAPER IX PRACTICAL V – SEWING TECHNIQUES

I. Safety practices while working on sewing machine. Care and maintenance on sewing machine.

II. Industrial sewing machine practices
   1. Threading practice - SNLS
   2. Pedal control exercise - SNLS
   3. Straight line exercise - SNLS
   4. Broken line exercise - SNLS
   5. Parallel line exercise - SNLS
   6. Corner handling exercise - SNLS
   7. Wave pattern exercise – SNLS
   8. SPI adjustment and thread calculation - SNLS
   9. Threading practice – Over edge machine
  10. Straight serging practice – over edge machine
  11. Wavy serging practice - over edge machine
  12. SPI adjustment and thread calculation – Over edge m/c
  13. Threading practice – Flatlock machine
  14. Fold practice – Flatlock machine
  15. Top stitch practice – Flatlock machine
  16. SPI adjustment and thread calculation – Flatlock m/c
  17. Button holing practice – Button holing m/c
  18. Button sewing practice – Button sewing m/c
  19. Picotting practice – Picotting m/c

III. Constructing various types of seam finishes as per federal standards
SEMESTER III CORE PAPER X PRACTICAL VI – COMPUTER APPLICATION IN FASHION – I

Recent designing software can be used to practice the below,

1. Create repeat & pattern designs for textile material – any five each.
2. Create embroidery designs – any five.
3. Create print designs & work on color separation – any five.
4. Draw the accessories design:
   i. Bag
   ii. Foot Wear
   iii. Hat
   iv. Glow
   v. Ornaments
5. Create Tech pack for the following
   i. Men’s wear.
   ii. Woman’s wear.
   iii. Kids wear.
6. Fashion illustration with apt back ground
   i. Men
   ii. Women
   iii. Kid
SEMESTER III ALLIED PAPER III – FABRIC COLORING AND FINISHING
TECHNIQUES

UNIT I
INTRODUCTION & PREPARATORY PROCESS

UNIT – II
FABRIC DYEING

UNIT – III
GARMENT DYEING

UNIT – IV
CHEMICAL FINISHING

UNIT – V
MECHANICAL FINISHING

REFERENCES
1. Technology of textile processing (vol 1 to 10) – V.A. Shenai.
3. Industrial effluents – M. Manivasakam.
SEMESTER III SKILL BASED SUBJECT 1 –FABRIC MANUFACTURING TECHNOLOGY

UNIT I
BASIC KNITTING TECHNOLOGY

UNIT II
SINGLE KIDNITRUCTURES
Principal Weft Knit Stitches - Knit, Tuck, Miss Stitch Formation And Properties - Representation Of Weft Knit Stitches - Basic Weft Knit Structures - Characteristics Of Single Jersey Fabrics.

UNIT III
DOUBLE KID AND SPECIALITY STRUCTURES

UNIT IV
WEAVING
Sequence of Preparatory Processes for Weaving & It’s Objectives - Passage of Material through Weaving Machine (Loom) - Important Motions of Weaving - Important Parts of Loom.

UNIT V
WOVEN FABRICS & DESIGNS
Introduction To Fabric Designing - Plain weave & its derivatives –Twill weave – Pointed twill – Herring bone twill - Satin and Sateen Weaves - Crepe Weaves –Honeycomb and Huck a back weaves. Jacquard designs

REFERENCES
1. Knitting Technology – David J Spencer
2. Knitting Technology – Prof.D.B.Ajgoankar
4. Yarn Preperations Vol I & II B. Senguptha
5. Mechanism Of Weaving Machines - J.Chakrovarthy.
6. Principles Of Weaving – Marks And Robinson
7. Weaving Mechanism - T. Ashwani
SEMESTER IV CORE PAPER XI – FASHION BUSINESS

UNIT I
FASHION ENVIRONMENT

UNIT II
FASHION BUSINESS
Scope of fashion business - Primary level, secondary level and retail level – Type of fashion designers - Role of fashion designers – Indian fashion designers - Principles of merchandising – Types of merchandising – Role of merchandiser - Effect of Consumer – Types of buyers – communication with buyers and consumers.

UNIT III
FASHION FORECASTING

UNIT IV
FASHION MARKET

UNIT V
ADVERTISEMENT AND PROMOTIONS
Advertising: purpose – methods - types of advertising media - Sales promotion methods - Trade fairs and fashion shows as sales promotion techniques - Feedback to production and marketing departments - Use of computers as a tool for effective merchandising - Fashion auxiliary services.

REFERENCES
1. Strong Elian, Fashion Merchandising
2. Inside the Fashion Business.. Mc Millan Publishing Co.,
3. Apparel Merchandising
4. Fashion : Concepts to Consumers
SEMESTER IV CORE XII – FASHION ACCESSORIES AND TRIMS

UNIT I
Introduction to accessory design - Concepts of patternmaking - Basic machinery and equipment used for constructing these accessories - Various types of shoes, handbags, hats and gloves. Three dimensional sketching: design detail - sketch the basic shapes of footwear, handbags, hats, gloves, personal leather goods, etc.

UNIT - II
Selection of Materials, Design, functional and aesthetic performance and advantages of different fasteners - Ribbons, Braid, Laces, Buttons, Zippers, Snap fasteners, Hooks and Eyes, Hook and Loop tape (Vell-crow), Eyelets.

UNIT - III

UNIT - IV

UNIT – V
Selection of Materials, Design, functional and aesthetic performance and advantages of different fashion accessories – Key Chain, Sunglass, Wrist watches, Rings, Ear rings, Bangles, Bracelets, anklets, Pony Tail Holder and Pen. A study on computer aided embroidery machineries

REFERENCE
SEMESTER IV CORE PAPER XIII PRINTING TECHNIQUES

UNIT I
Styles of printing - Direct style - Discharge style - Resist style

UNIT II
Thickeners or Thickening agents: Temporary thickening agent - Permanent thickening agent - Preparation of thickening agents.

UNIT III

UNIT IV
Discharge style of printing - Brief history of discharge style of printing - use of oxidizing and reducing agents - Discharge by mordant, recipes of oxidizing and reducing agents.

UNIT V
Rolling printing machine - Single color roller printing machine - Multi-color roller printing machine - Difference between single and multi color roller printing - Merits and demerits of cylinder roller printing machine (f) Merits and demerits of cylinder.

REFERENCES
1. Textile Chemistry Vol. III by R.H. Peters,
2. The Dyeing Of Textile Materials by J. Cegarra, P. Puente, J. Valldeperas,
3. Technology of textile processing, Vol. IV, Technology of Printing by V.A. Shenai
4. Engineering in Textile Colouration by C. Duckworth,
5. Textile Printing by L.W.C. Miles,
6. The Dyeing of Cellulosic Fibres by C. Preston,
7. Chemical Technology of Fibrous materials by F. Sadov, M. Korchagin and A. Matetsky,
8. Dyeing and Chemical Technology of Textile Fibres by E.R. Trotman,
SEMESTER IV CORE PAPER XIV PRACTICAL VII – COMPUTER APPLICATION IN FASHION – II

Using design software create the following visual communication design,
1. Create brand name & design logo for it.
2. Design Visiting card, Letter pad & Envelop design
3. Design Seasonal greetings
4. Design a Calendar
5. Design Label for your brand
6. Design Tag for your brand
7. Design packing material for your brand
8. Practice in Lay-Out Design
9. Practice in Poster Design
10. Practice in Dangler Design
11. Practice in Hand bag Design
12. Practice in Hoarding Design

SEMESTER IV CORE PAPER XV PRACTICAL VIII – GARMENT CONSTRUCTION – KNITS

Using different kind of knitwear manufacturing machineries construct the following style with details mentioned with it,

I. Men’s style
   1. Basic T shirt with front patch pocket
   2. Raglan T shirt with full sleeve
   3. Polo T shirt with short sleeve
   4. Bermuda with side pocket
   5. Hooded T shirt with front pocket
   6. Vest RN, RNS
   7. Briefs, Trunks
   8. Track pant with side piping

II. Women’s style.
   1. High neck T shirt with full sleeve
   2. V neck T shirt with half sleeve
   3. Kimono sleeve T shirt
   4. Legging
   5. Gathered skirt
   6. Night pajama set with neck binding

III. Kid’s style.
   1. Sleeveless jhabla with neck and armhole binding
   2. Overall with full sleeve
   3. Bloomer with elastic hem
SEMESTER IV ALLIED PAPER IV – TEXTILE TESTING AND QUALITY MANAGEMENT

UNIT I
INTRODUCTION
Quality and its importance – Approaches to quality – Quality costs - Objectives of Testing - Standardization of testing - Conditions and requirement for testing lab.

YARN TESTING:
Identification and types of yarn - Determination of yarn quality parameters: CSP, Twist and Evenness – defects in yarn and package. A case study on yarn selection for knitting.

UNIT II
TESTING - FABRIC

UNIT III
FABRIC QUALITY AND APPAREL INDUSTRY

UNIT IV
QUALITY CONTROL IN APPAREL PRODUCTION
Fabric quality standards for various type of garments. Assessment of accessories and trims: Interlinings, elastic, waistband, zippers, sewing threads, buttons and laces. Basics of care instructions and eco labels

UNIT V
INSPECTION
Definition – Types and stages of inspection. In coming material inspection: Fabric inspection as per 4 point & 10 point system. Process inspection: Assessment of spreading, cutting, sewing room – detailed study on sewing and seaming defects – control of fusing & embroidery operation.

FINAL INSPECTION
Final inspection and its specification as per AQL standards – Guideline for how much to inspect? - Risks involved. Principles of Total Quality Management (TQM) –Basics of PDCA, Kaizan, and 5’S

REFERENCES
1. Testing and Quality Management – V. K. Kothari
3. Physical testing of Textiles – B.P.Saville
4. Textile testing – P. Angappan & R. Gopalakrishnan
5. Managing Quality in Apparel Industries – Pradeep V Metha & Satish k. Bhardwaj
SEMESTER IV SKILL BASED SUBJECT 2 – FABRIC ANALYSIS AND DESIGNING PRACTICAL

1. Development of the following samples:
   1. Pique
   2. Pearl
   3. Lacoste
   4. Twill
   5. Cross miss
   6. Two thread fleece
   7. Mini Jacquard design
   8. Auto striper
   9. Rib waffle
   10. Flat back rib
   11. Interlock
   12. Ottoman rib
   13. Electronic Jacquard motif

2. Analyze the given knitted fabric sample for the following particulars:
   A) Course and Wale Density
   B) Loop length
   C) Areal Density (GSM)
   D) Tightness Factor
   E) Technical graph
   F) Cam order
   G) Needle order

3. Analyze the given woven fabric sample (Plain, Twill, Satin and its derivatives) for the following particulars and draw the design, draft and peg plan
   A) EPI
   B) PPI
   C) Warp and Weft crimp & count
   D) Cover Factor
SEMESTER V CORE PAPER XVI – FUNCTIONAL APPARELS

UNIT I
INTRODUCTION
Functional design of textiles, Properties – structural, aesthetic, functional and their advantages, comfort and fit.

UNIT II
MEDICAL WEAR
Classification of Medical textiles and their functions – Textile materials used for implants and non-implants –Healthcare and Hygiene products.

UNIT III
ENVIRONMENTAL PROTECTIVE CLOTHING
Protection against rain, heat, cold, snow, wind, and insect- material selection, finishing treatments.

UNIT IV
PROTECTIVE CLOTHING FOR SERVICE PERSONNEL
Clothing for soldiers, fire service personnel. Protection against knives and other weapons, Clothing for ballistic protection. Gloves, masks, helmet, respiratory devices, eye glasses and shoes.

UNIT V
SPORTS WEAR
Clothing requirements, functional Fibers, yarns and fabrics suitable for sportswear application and its properties. Footwear Clothing: Fabric requirements, finishing adaptability.

REFERENCES
SEMESTER V CORE XVII PRACTICAL IX – GARMENT CONSTRUCTION – WOVEN

Using different kind of woven manufacturing machineries construct the following with details mentioned with it,

I. Men’s style.
   1. Formal shirt full sleeve
   2. Formal trouser with side and welt pocket
   3. Boxer short side and patch pocket
   4. Men’s kurta with stand collar & side kurta pocket
   5. Night robe with patch pocket
   6. Baggy pant with pouch pocket

II. Women’s style.
   1. Simple salwar
   2. Patiala salwar
   3. Simple kameez with side slit
   4. 8 part umbrella kameez with puff sleeve
   5. Sari blouse
   6. Petticoat
   7. Nighty with yoke & butterfly sleeve
   8. Apron

III. Kid’s style.
   1. Bib
   2. Chemise
   3. Gathered frock with cap sleeve
   4. Pedal pusher
   5. Umbrella frock

SEMESTER V CORE PAPER XVIII PRACTICAL X – SURFACE ORNAMENTATION

I. Basic Hand Embroidery practice with any two variations in the following stitches,
   1. Running Stitch
   2. Laced Running Stitch
   3. Back stitch
   4. Stem Stitch
   5. Satin stitch
   6. Bullion Knot
   7. Pearl Knot
   8. Cross Stitch
   9. Blanket Stitch
   10. Button Hole Stitch
   11. Shaded Button Hole
12. Corel Stitch
13. Spider Web Stitch
15. Chain Stitch
16. Daisy Chain Stitch
17. Roman Chain Stitch
18. Zig Zag Chain Stitch
19. Russian Chain Stitch
20. Zig Zag Cable Stitch
21. Chevron Stitch
22. Cretan Stitch
23. Faggotting Stitch
24. Feather Stitch
25. Fern Stitch
26. Fish Bone Stitch
27. Herringbone Stitch
28. Couching
29. Overcastting.
30. Counted Thread Work
31. Drawn Thread Work
32. Cut Work
33. Bead Work
34. Mirror Work
35. Sequins Work

II. Traditional surface ornamentation practices with two to four variations in the following,
   1. Kantha
   2. Chikan
   3. Kasuti
   4. Zardosi
   5. Kutch work
   6. Mirror work
   7. Aari work
   8. Phulkari work
   9. Fabric painting
   10. Crochet
   11. Smocking
   12. Applique
   13. Quilting

REFERENCES:
4. Traditional Indian Motifs for Weaving and Printing
5. 5000 Designs and Motifs from India – Ajit Mookerjee – 1996
6. Barudan / Tazima / ZSK Embroidery Machines Catalogue
SEMESTER V CORE PAPER XIX PRACTICAL XI – DRAPING TECHNIQUES

UNIT-I

UNIT-II
Bodice front and back – Skirt front and back – Pant front and back – Basic sleeve.

UNIT-III

UNIT-IV

UNIT-V
Design each one garment for men, women and kids wear and further develop pattern through draping techniques.

REFERENCES

SEMESTER V CORE PAPER XX PRACTICAL XII COLORING TECHNIQUES

Part A
1. Determination of water hardness
2. Developing self shades using reactive and vat dyes
3. Developing self shades on protein fiber using acid and basic dyes
4. Developing self shades on polyester fiber using disperse dyes
5. Developing self shades on nylon fiber using acid dyes
6. Compound shade preparation using the given colors
7. Formulating recipe for the given shade
8. Evaluate the color difference using visual technique
9. Dye the given P/C blended fabric
10. Produce fancy dyeing effects on P/C blended fabric

Part B
1. Flat screen preparation for printing single color
2. Flat Screen preparation for printing multi color
3. Print the given fabric using blocks with single and multi color
4. Print the given fabric using Flat screen with single and multi color pigments
5. Print the given fabric using Flat screen with dyes
6. Produce burnout effect on the given fabric
7. Produce the given effect on the garment using tie and dye techniques
8. Produce the given effect on the garment using Batik techniques
9. Finish the given fabric or garment using softener
10. Finish the given material using enzymes

SEMESTER V ELECTIVE PAPER I (A) – CRAFT DOCUMENTATION PRACTICAL

I. Introduction to the craft – History and origin of craft, communities involved – demographics of the place
II. Understanding craft method and its process
III. Different types of craft
   1. Mural painting
   2. Sand painting
   3. Terracotta
   4. Clay modeling
   5. Weaving
   6. Artificial flower making
   7. Embroideries of different states
IV. Students should identify a craft on their preference and need to go internship for at least a week
V. Students should submit their internship report along with the craft they learnt during their internship

REFERENCE
1. Laurie Schneider Adams, Art Across Time, Mc. Graw Hall

SEMESTER V ELECTIVE PAPER I(B) – ADVANCED ILLUSTRATION PRACTICALS

Using art medium the following composition of illustration should be practiced,

I. Composition – Men Illustration
   Men Illustration on Party and Office background.

II. Composition – Women Illustration
   Women Illustration on Party and Office background.

III. Composition – Men & Women Illustration
    Men & Women Illustration on Party and Shopping background.

IV. Composition – Children Illustration
    Children Illustration on the background of Picnic.

V. Composition
    Sketching the stylized Group illustration.

VI. Outdoor Sketching.
SEMESTER V ELECTIVE PAPER I(C) – CARE AND MAINTENANCE OF TEXTILES

UNIT-I
Water- hard and soft water, methods of softening water. Laundry soaps – Manufacture of soap (Hot process , cold process ), composition of soap types of soap, soap less detergents , chemical action , detergent manufacture , advantages of detergents.

UNIT-II
Finishes – Stiffening Agents – Starch (cold water and hot water) , Other stiffening agents, preparation of starch. Laundry blues , their application.

UNIT-III
Laundry equipment – for storage, for steeping and Washing – Wash board, suction washer, wash boiler, washing machine. Drying equipments – out door and indoor types . Irons and ironing board – types of iron (box, flat , automatic, steam iron) . Ironing board – different types.

UNIT-IV

UNIT-V

REFERENCES
4. Household Textiles and Laundry Work – Durga Duelkar , Amla Ram & Sons, Delhi
SEMESTER V SKILL BASED SUBJECT 3 – TEXTILE TESTING PRACTICAL

The fiber, yarn and fabric are tested for its quality using respective testing equipments. The experiments are mentioned below,

1. Determination of yarn quality parameter (Count, Strength, CSP and Tensile strength)
3. Analysis of given woven fabric sample for determining weight, EPI, PPI, Crimp & Cover factor.
4. Determination of color fastness of given sample to washing and rubbing by using launder meter and crock meter.
5. Determination of color fastness of given sample to perspiration by using perspirometer
6. Determination of dimensional stability (shrinkage / growth) and spirality of a given fabric/garment to washing.
7. Determination of stiffness of the given fabric using Shirley stiffness tester
8. Determination of crease recovery of the given sample
9. Determination of drape of the given fabric using drape meter
10. Determination of bursting strength of the given fabric using bursting strength tester
11. Identification of formaldehyde content in the given sample using chromotropic acid

SEMESTER VI CORE PAPER XXI - GARMENT PRICING AND TRADE DOCUMENTATION

UNIT-I
PRINCIPLES OF COSTING

UNIT-II
COST ESTIMATION
Estimation of factory cost for different knitwear and woven products. Various Factors to Be Considered In Costing For Domestic Products & International Products.

UNIT-III
FIRM ESTABLISHMENT
UNIT-IV
IMPORT PROCEDURE

UNIT-V
SHIPMENT AND CUSTOMS

REFERENCE
3. Hand Book Of Import And Export Procedures - Paras Ram

SEMESTER VI CORE PAPER XXII APPAREL PRODUCTION MANAGEMENT

UNIT 1
INTRODUCTION
Production - Definitions - Terminology - Organizing for Production - Function of Production Department - Duties and Responsibilities of Production manager / Supervisor - Effective Line Supervision - Factors of Production - Production Function - Basic Production Systems - Evaluating and Choosing the System - Process Flow and Charts for Garment - Scheduling Calculations - Assigning Operators Optimally - Setting Up Complete Balanced Production Lines to Produce Given Amount of Garments

UNIT II
PRODUCTION PLANNING AND CONTROL
Capacity Requirement Planning[CRP] - Material Requirement Planning - Steps in Production Planning - Factors to be consider in Production Planning - Function, Qualitative and Quantitative Analysis of Production - Coordinating Departmental Activities - Practical Difficulties in implantation.

UNIT III
PRODUCTION AND PRODUCTIVITY
Material" - Total Factor Productivity - Criteria for Increasing Productivity in Garment Industry -conducting productivity analysis survey in the garment industry.

UNIT IV
PLANT ENGINEERING & LINE BALANCING

UNIT V
WORK STUDY

REFERENCES:
1. Carr & Latham, Technology of Clothing Manufacture
2. Jacob Solinger, Apparel Manufacturers Handbook
3. Gerry Cooklin, Introduction to Clothing Manufacture
4. A. J. Chuter, Introduction to Production Management
5. Tripathi, Personal Management and Industrial Relations
6. O.P. Khanna, Industrial Engineering and Management
7. Rama Moorthi, Production and Operations Management

SEMESTER VI CORE PAPER XXIII PRACTICAL XIII ART PORTFOLIO
Create Art portfolio with below mentioned details using Computer Aided Design software,

1. Develop Forecast Board based on seasons for Fashion and Color.
2. Develop Trims and Accessory Board based on Season.
3. Develop Inspiration Boards.
4. Develop Story Boards.
5. Develop Mood Boards for different theme / inspirations.
6. Develop Color Palette based on the theme / inspiration.
7. Develop Customer Profile.
8. Develop Flat Sketches based on the theme / inspiration.
9. Create design board with 6 designs according to your theme and customer profile.
10. Develop Tech pack for your designs

REFERENCES
1. The style source book – Judith Miller, Stewart, Tabori and Chang, Newyork
MARKET ANALYSIS & FORECASTING

Each student should prepare their customer profile and conduct market analysis in a selected location on fashion trend and direction. On the data collected they should make forecast, develop forecast board for style and color, design their collection based on a theme and stitch garments accordingly. The collection should consist of 10 designs.

PRESENTATION AND EVALUATION

Each student should submit a complete project report in the prescribed format and need to produce presentation and attend viva voce thereafter.

REFERENCES

1. The style source book - Judith Miller, Stewart, Tabori and Chang, Newyork
2. The creative book of fashion - Vol 1 - Sebastian Zachariah
3. Naturally 70s fabric - Constance Korosec and Leslie Pina
4. Natural fabrics – Ian Mankin

SEMESTER VI ELECTIVE PAPER II(A) – FASHION ETHNOGRAPHY PRACTICALS

The research is confined to cosmetics, apparels, and home furnishing.

I. Select one famous shop/community/individual from the given sector
II. Secondary research: Study the history of at least two good
III. shop/community/individual from the given area. Make a research on how they started, where, when and why they started.
IV. Understand the sector where they are doing their business. Understand the customers taste and preference from those coming to the shop/community (Record visually).
V. Prepare questionnaire for customers and shop/community/individual
VI. Interview the customer, shop/community/individual (Record visually)

PRESENTATION AND EVALUATION

Each student should make a complete report in power point presentation on their research along with their visuals.
SEMESTER VI ELECTIVE PAPER II(B) – HUMAN VALUES AND PROFESSIONAL ETHICS

UNIT I
MANAGEMENT: Meaning, Definition, Significance, Functions – Planning, Organizing, Staffing, Directing and Controlling, Principles of Management.

UNIT II
HUMAN VALUES: Value Crisis in Contemporary Indian Society, Aesthetic Values, Moral and Ethical Values, Spiritual Values, Values in the Work Place.

UNIT III
INTERPERSONAL RELATIONSHIPS: Managing Emotions, Emotional Intelligence, Building Better Interpersonal Relations, Managing the Boss, Dealing with Subordinates – Case Study.
CREATIVITY: Creativity and Problem Solving – Creativity Process – Creative Individuals and their Characteristics – Techniques for Creative Problem Solving.

UNIT IV
HUMAN RESOURCE MANAGEMENT: Importance, Objectives, Functions, Job Analysis and Recruitment, Selection and Placement.

UNIT V
MOTIVATION: Meaning and Definition – Mechanism of Motivation – Maslow’s Need Hierarchy Theory, Mc Gregor’s Theory X and Y- Herzberg’s Two Factor Theory.

REFERENCES:
SEMESTER VI ELECTIVE PAPER II(C) – ENTREPRENEURIAL DEVELOPMENT

UNIT – I
Concept of entrepreneurship: Definition Nature and characteristics of entrepreneurship – function and type of entrepreneurship phases of EDP. Development of women entrepreneur & rural entrepreneur – including self employment of women council scheme.

UNIT – II

UNIT – III
Institutional service to entrepreneur – DIC, SIDO, NSIC, SISI, SSIC, SIDCO – ITCOT, IIC, KUIC and commercial bank.

UNIT – IV
Institutional finance to entrepreneurs : IFCI, SFC, IDBI, ICICI, TIIC, SIDCS, LIC and GIC, UTI, SIPCOT – SIDBI commercial bank venture capital.

Unit – V
Incentives and subsidies – Subsidized services – subsidy for market. Transport – seed capital assistance – Taxation benefit to SSI role of entrepreneur in export promotion and import substitution.

REFERENCE
1. Entrepreneurial Development – C.B.Gupta and N.P.Srinivasan
2. Fundamentals of Entrepreneurship and Small Business – Renu Arora and 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 VI ELECTIVE PAPER III(A) – FASHION PHOTOGRAPHY

UNIT I  INTRODUCTION

UNIT II  TYPES OF CAMERS
Camera definition – parts of camera- classification and types of camera – Applications - Disadvantages.

UNIT III  PHOTOGRAPHY TECHNIQUES
Photography techniques and equipment for different fields. Modeling, newspaper, magazines – occasions – Fashion shows.

UNIT IV  PHOTO DEVELOPING

UNIT V  ADVANCED PHOTOGRAPHY

REFERENCE

SEMESTER VI ELECTIVE PAPER II (B) - FASHION PRESENTATION AND CHOREOGRAPHY

UNIT I  FASHION SHOW
Fashion Show for selling merchandise - Additional reasons for producing Fashion Shows - Fashion Show’s finale - Fashion Show Categories. Specialized fashion presentations: Haute couture shows - Ready to wear shows - Trade shows - Trade association shows – Press shows

UNIT II  PLANNING FASHION SHOW
Targeting the audience - Developing leadership - Creating Fashion Show themes - Finding venue - Timing the show - Protecting people and things - Estimating the budget.
UNIT III
FRAME WORK

UNIT IV
PROMOTION AND ADVERTISING

UNIT V
CATWALK AND CHOREOGRAPHY

REFERENCES

SEMESTER VI ELECTIVE PAPER III(C) – COMPUTER AIDED TEXTILE DESIGNING PRACTICAL

The textile designing software is utilized for the following practice,

1. Motif design, color reduction and cleaning.
2. Manipulation of motifs to layouts and patterns.
3. Creating designs-traditional, floral, conversational and abstract.
4. Horizontal stripes, vertical stripes and plaids.
5. One-way, two-way, half-drop and tossed lay outs.
6. Dobby designing – Stripes, Checks, twills, sateen and diamond weaves.
7. Color combinations and color ways. Presentation of designs.
10. Development of jacquard designs – Ogee base, Diamond base, Sateen base
11. Multi layer design- extra warp/ weft design concepts.

PRESENTATION

Each student should submit a printed record carrying all the works done on the above area with necessary descriptions.
SEMESTER VI SKILL BASED SUBJECT 4 – COMPUTER AIDED PATTERN DESIGNING PRACTICAL

CAD software is used to practice the following on the styles mentioned,

1. Creating Pattern on computer screen, adding details to patterns.
2. Digitizing, saving, extracting & editing patterns from stock library of Patterns.
3. Grading patterns on different size scale.
5. Estimating lay length and calculating marker efficiency.
6. Fit analysis of the given pattern using 3D CAD software.

Garment styles

1. T shirt - knits
2. Raglan T shirt with full sleeve - knits
3. Polo T shirt with short sleeve - knits
4. Bermuda - knits
5. Hooded T shirt - knits
6. Vest RN, RNS - knits
7. Briefs, Trunks - knits
8. Track pant - knits
9. High neck T shirt - knits
10. Legging - knits
11. Gathered skirt - knits
12. Night pajama set - knits
13. Sleeveless jhabla - knits
14. Overall - knits
15. Bloomer - knits
16. Formal shirt –woven
17. Formal trouser - woven