BHARATHIAR UNIVERSITY (CBCS PATTERN)

B.Sc. Costume Design & Fashion (Vocational)

(For the students admitted during the academic year 2011-2012 Batch and onwards)

Scheme of Examination – CBCS PATTERN

<table>
<thead>
<tr>
<th>Part</th>
<th>Study Components</th>
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### Semester IV

| III | Core Practical VI – Women’s Apparel Practical -II | 6 | 3 | 40 | 60 | 100 | 4 |
| Core Paper VI – Fabric Structure & Design | 5 | 3 | 25 | 75 | 100 | 4 |
| Core Practical VII Fabric Structure & Design – Practical | 3 | 3 | 20 | 30 | 50 | 2 |
| Core Paper VII - Wet Processing | 3 | 3 | 20 | 55 | 75 | 3 |
| Core Practical VIII - Wet Processing Practical | 3 | 3 | 20 | 30 | 50 | 2 |
| Allied Paper IV - Computer Applications in Fashion Designing – Practical II | 5 | 3 | 40 | 60 | 100 | 4 |
| Skill based Subject -Surface Embellishments Practical | 3 | 3 | 30 | 45 | 75 | 3 |
| Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #) | 2 | 3 | 50 | 50 | 2 |

### Semester V

| III | Core Practical IX - Men’s Apparel Practical | 6 | 4 | 40 | 60 | 100 | 4 |
| Core Practical X - Computer Applications in the Textile Design Practical-I | 5 | 3 | 20 | 30 | 50 | 2 |
| Core Paper VIII-Clothing Care | 3 | 3 | 20 | 55 | 75 | 3 |
| Core Practical XI - Textile Printing - Practical | 4 | 3 | 20 | 30 | 50 | 2 |
| Core Paper IX – Apparel Production Techniques | 5 | 3 | 20 | 55 | 75 | 3 |
| Elective –I | 4 | 3 | 25 | 75 | 100 | 4 |
| IV | Skill based Subject - Dyeing & Printing Methods | 3 | 3 | 20 | 55 | 75 | 3 |

### Semester VI

| III | Core Paper X – Modern Finishing Techniques | 6 | 4 | 40 | 60 | 100 | 4 |
| Core Practical XII - Computer Applications in Textile Design Practical-II | 6 | 3 | 20 | 30 | 50 | 2 |
| Core Paper XI - Knitting | 5 | 3 | 20 | 55 | 75 | 3 |
| Core Practical XIII- Knitting Practical | 3 | 3 | 20 | 30 | 50 | 2 |
| Elective –II | 4 | 3 | 25 | 75 | 100 | 4 |
| Elective –III | 3 | 3 | 25 | 75 | 100 | 4 |
| IV | Skill based Subject -Fashion Portfolio Presentation | 3 | - | - | - | 75* | 3 |
| V | Extension Activities @ | - | - | 50 | - | 50 | 2 |

| Total | 3500 | 140 |

* For Viva : 20% marks & report: 80% marks.

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

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

**List of Elective papers (Colleges can choose any one of the paper as electives)**

| Elective – I | A | Textile and Apparel Quality Control |
| B | Fabric Production and Processing |
| C | Entrepreneurial Development |

| Elective – II | A | Entrepreneurship Development and Management |
| B | Apparel Production Management |
| C | Business Finance |

| Elective - III | A | Indian Art and Costumes |
| B | Export Analysis and Documentation |
| C | Apparel Quality Management |
SEMESTER I  CORE PAPER – I  
BASIC SKILLS IN GARMENT CONSTRUCTION

Unit I

Unit II
Fullness – Definition, types. Darts, Tucks, pleats, flares and godets, gathers and shirrs, frills or ruffles, flounces. Facings – bias facing, shaped facing and decorative facing. Binding – single bias binding, double bias binding.

Unit III
Plackets – definition, characteristics of good placket, types – Inconspicuous plackets and conspicuous plackets. Method of constructing the same. Fasteners – conspicuous (Button and button – holes, button loops, button with holes, shank buttons, eyelets and cords). Inconspicuous (press buttons, hooks and eyes, zips)

Unit IV

Unit V
Collars – definition, types, peter pan, scalloped, puritan, sailor, square, rippled, full shirt collar, open collar, Chinese, turtle neck, shawl collar. Pockets – types, patch pocket, bound pocket, pocket in a seam, front hip pocket.

References:
CORE PRACTICAL I
BASIC SKILLS IN GARMENT CONSTRUCTION – PRACTICAL

Exercise – I:
Preparation of samples for different types and seam finishes.

Exercise – II:

Exercise – III.
Preparation of samples for fullness, bias joining, facings and bindings.

Exercise – IV
Preparation of samples for plackets and closures

Exercise – V
Preparation of samples for plain sleeve, puff sleeve, cap sleeve and raglan sleeve

Exercise VI:
Preparation of samples for partial yoke and yoke supporting fullness.

Exercise VII:
Preparation of samples for peter pan collar, shirt collar and shawl collar.

Exercise – VIII
Preparation of samples for patch and side seam pocket.

SEMESTER I  CORE PAPER II
PATTERN MAKING AND GRADING

UNIT-I
Body measurement –importance, preparing for measuring, ladies measurements, boys and men’s measurements. Standardizing body measurements –importance, techniques used. Relative length and girth measures in ladies /gentlemen
Preparation of fabric for cutting –importance of grain in cutting and construction, steps in preparing the fabric for cutting.

UNIT-II
Pattern making –method of pattern making – (Drafting and draping),merits and demerits. Types of paper patterns (Patterns for personal measurements and commercial patterns)
Principles of pattern drafting . Pattern details, steps in drafting basic bodice front and back and sleeve.
UNIT-III
Styles created by shifting of blouse darts, adding fullness to the bodice, converting darts to seam and partial yokes and incorporating darts in to seams forming yokes.
Fitting - Standards of a good fit, steps in preparing a blouse for fitting, checking the fit of a blouse, solving fitting problems in a blouse, fitting techniques.

UNIT- IV
Pattern alteration – importance of altering patterns, general principles for pattern alteration, common pattern alteration in a blouse.
Pattern grading – definition, types, manual – master grades, basic front, basic back, basic sleeve, basic collar and basic grading.

UNIT-V
Pattern layout- definition, purpose, rules in layout, types of layouts for length wise stripped designs, fabric with bold design, asymmetric designs, one way designs. What can be done if cloth is insufficient, fabric cutting, transferring pattern marking, stay stitching, ease stitching.

Reference:
Practical clothing construction - part I and part-II Mary Mathews, cosmic press Chennai (1986)
Pattern Grading for women’s clothing, The technology of sizing – Gerry cooklin, Blackwell Science Ltd (1990)
Zarapker system of cutting – zarapker. K. r., Navneet publications Ltd.

SEMESTER I ALLIED PAPER I
BASIC FASHION ILLUSTRATIONS – PRACTICAL

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, waistline, side seam, armholes, 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 type 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:
2. Fashion design Illustration: Children, Ireland Patrick John,
3. Fashion Design Illustration : Men, Ireland Patrick John
4. Fashion Design illustrations, Ritu
5. Foundation in fashion design and illustration – Julian Seaman.

SEMESTER II CORE PRACTICAL – II
ADVANCED FASHION ILLUSTRATION – PRACTICAL

Unit I
Developing illustrations from the pictures of magazine:
Analyzing a normal figure into fashion figure – front face to be done using pictures from magazines, analyzing profile using of a normal figure into fashion figure and analyzing back of a normal figure into fashion figure using magazine.

Unit II
Creating illustrations with various garment styles for Men, Women and Children – for casual wear, party wear and sports wear.

Unit III
Drawing the stylized figures of Men, Women and Children (using 10 heads or 12 heads).

Unit IV
Drawing garments for different seasons – summer, winter, autumn and spring – for Men, Women and Children.

Unit V
Men and Women illustration on the background of party and office, children illustration on the background of party and picnic.

REFERENCES:
2. Fashion design Illustration: Children, Ireland Patrick John,
3. Fashion Design Illustration : Men, Ireland Patrick John
4. Foundation in fashion design and illustration – Julian Seaman.
5. Fashion Sketch Book, Fair child publication, New York
SEMESTER II  
CORE PAPER – III
BASIC TEXTIELS

Unit – I
Introduction to the field of Textiles – major goals- classification of fibres – natural and chemical – primary and secondary characteristics of textile fibres.

Unit II
Manufacturing process, properties and uses of natural fibres – cotton, linen, jute, pineapple, hemp, silk, wool, hair fibres, Man made fibres – viscose rayon, acetate rayon- nylon, polyester, acrylic.

Unit III
Spinning – definition, classification – chemical and mechanical spinning – blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning.
Yarn classification – definition classification – simple fancy yarns, sewing threads and its properties.

Unit IV
Wovens – basic weaves- plain twill, satin, fancy weaves – pile, double cloth, leno, swivel, lapper, doby and jacquard
Weaving technology- process sequence –machinery details.

Unit V
Non- wovens- felting, fusing, bonding , lamination , netting, braiding and calico, tatting and crotcheting

References:
Technology of dyeing and printing – Shenai.
CORE PRACTICAL III
BASIC TEXTILES – PRACTICALS

Identification of Textile Fibers
Fibers – cotton, silk, wool, nylon, polyester, linen, rayon, jute
1. Microscopic method
2. Flame test
3. Chemical test

Testing of yarns/fabric
1. Count of the yarn using Wrap Reel
2. Count of the yarn using Beesley’s Yarn Count Balance
3. Twist of the Yarn using Twist Tester
4. Determining the weight of the fabric
5. Determining the Fabric Count by
   a. Ravelling Method
   b. Pick Glass Method
6. Course Length and Loop Length of Knitted Fabric
7. Colour Fastness to Water
8. Test of Shrinkage
9. Test of Absorbency

SEMESTER – II ALLIED PAPER II
E-DESIGNING PRACTICAL

DESIGNING IN COREL DRAW

1. Creating motifs / small designs
2. Creating logos for branded companies
3. Creating labels; Name label, Size label, Care label
4. Creating text effects in CorelDraw
5. Creating 3D animation in CorelDraw
6. Designing visiting cards, posters and greeting cards.
7. Drawing fashion silhouettes in CorelDraw
8. Designing Children’s garments; Jabla, A-line frock, Baba suit
9. Designing Women’s garments; Middi and top, Salwar kameez, Nightie
10. Designing Men’s garments; S.B.Vest, T-Shirt, Kurta pyjama
SEMESTER III CORE PRACTICAL IV
WOMEN'S APPAREL PRACTICAL-I

Designing drafting and constructing the following garments for the features prescribed
List the Measurements required and Materials suitable
Calculate the cost of the garment
Calculate the material required –Layout method and Direct measurements method

1. saree Petticoat- Six Panel , Decorated bottom.
2. Blouse front open ,Fashioned neck, Waist band at front , with sleeve.
3. Middi- circular / gatherd / pleated with waist band
4. Middi Top- Kimono / raglon sleeve ,
5. Salwar (or) Churidhar (or) Parallels (or) Bell Bottom
6. Kameez – with /without slit, with or without flare ,with /without opening ,with or without panels, with /without yoke.

Reference;
1. Scientific garment quality –K M Illege and Sons , Plot No. 43 , Somuvar Peth pune 411011
2. Easy cutting –Juvekar commercial Tailors Corporation p vt 166 Dr. Ambedkar Road dadar.
3. Commercial system of cutting - Juvekar commercial Tailors Corporation p vt 166 Dr.
   Ambedkar Road dadar.
5. Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college ,32 North park street ,Ambattur , channi. Pratical clothing construction –
   Part I and II Mary Mathews ,cosmic Press Chennai.
SEMESTER III  CORE PAPER IV
FASHION AND APPAREL DESIGNING

Unit I
FASHION TERMINOLOGIES
Fashion, Style, Design, Change, Acceptance, Taste, Classics, Fad, High Fashion, Mass Fashion,
Fashion Trend, Silhouette, Boutique, Mannequin, Custom made, Collection, Chic, Haute Couture, Pret A porter, Fashion shows.

Unit II
FASHION THEORY AND FASHION CYCLE
Fashion Theory:
Trickle down theory, trickle across theory, bottom up theory,
Fashion Cycle
Fashion cycle for classic, fashion cycle for Fad

Unit III
Fashion Forecasts
Aims of forecasting, Role of fashion predictors, six disciplines of forecasting, Analysis of consumer preference, Components of fashion forecasting.

Unit IV
FACTORS AFFECTING DESIGN APPLICATION FOR VARIOUS AGE GROUPS

Infants, Toddlers, school going children boys and girls, Teenager, Adolescents, Adults, Old, Seasons, Summer Winter spring Autumn,

Unit V
Western costume based on historic perceptive
Egypt, Mesopotamia, Persia, crete, Greece and Rome

Practical:
1. Flat sketching
2. Fabric rendering
3. Documentation and presentation of western costumes.

Reference:
2. Elements of fashion and apparel design, Sumath G.J.(2002).
SEMESTER III CORE PAPER – V
PRINCIPLES OF DESIGN AND APPLICATION

Unit – I
Design Definition, Types structural design and decorative design, types of designs – natural, stylized geometrical, and abstract.

Unit – II
Elements of design – line shape, color, size & Texture, Art & Principle – Balance, Rhythm, emphasis, harmony & proportion.

Unit III
Color, color theories, prang & Munsell, Dimensions of color – Hue value & intensity, color scheme and texture.

Unit IV
Trimmings & Decoration – Definition and types, Figure irregularities, Wardrobe planning.

Unit V
Design development and adjustment Selection of design for end uses.

References:
1. Elements of fashion & apparel design
SEMESTER III                  CORE PRACTICAL V

PRINCIPLES OF DESIGN AND APPLICATION PRACTICAL

1. Prepare the following charts
   a) Prang colour chart
   b) Value chart
   c) Intensity chart

2. Application of elements of design in dress design
   a) Line
   b) Colour
   c) Texture
   d) Shape or form
   e) Size

3. Application of principles of design in dress design
   a) Balance - Formal/ Informal
   b) Harmony
   c) Emphasis
   d) Proportion
   e) Rhythm

4. Illustrate the colour harmony in dress design
   a) Monochromatic colour harmony
   b) Analogous colour harmony
   c) Complementary colour harmony
   d) Double complementary colour harmony
   e) Split complementary colour harmony
   f) Triad colour harmony

5. Draw diagrams for persons having unusual problems in dress

6. Develop and apply design in various samples.
SEMESTER III   ALLIED PAPER III

COMPUTER APPLICATION IN FASHION DESIGN-PRACTICAL I

DESIGNING IN ADOBE PHOTOSHOP

I. Creating effects
   1) Black and white effect
   2) Sketch effect
   3) Painting effect
   4) Rain effect
   5) Rainbow effect
   6) Light effect
   7) Paper and cloth effect
   8) Mixing photographs
   9) Photo mosaic effect
   10) Text effect
   11) 3D effect
   12) Frames

II. Designing greeting cards and posters in photoshop

III. Creating theme related mood boards in photoshop

IV. Developing one’s own pallet according to fashion forecast.

SKILL BASED SUBJECTG - PAPER I

BASIC DRAPING PRACTICAL

Unit I
Introduction to draping and dress forms.

Unit II
Draping basic front
Draping basic back

Unit III
Draping basic skirt.

Unit IV
Draping Yokes – shirt yoke, Midriff yoke

Unit V
Draping Collars – Peter pan, Mandarin

Reference:
1. Dress pattern designing by Bray Natalie.
2. Dress Pattern designing by Natalie Bray.
3. Flat pattern cutting & modeling for fashion by Stanley Helen.
SEMESTER IV
CORE PRACTICAL -VI
WOMEN’S APPAREL PRACTICAL-II

Designing, drafting and constructing the following garments for the features prescribed
List the Measurements required and Materials suitable
Calculate the cost of the garment
Calculate the material required – Lay out method and Direct measurement method

1. Nightie – with yoke, front open, with sleeve, full length
2. Princess line dress – knee length, with or without sleeve.
4. Short kurta – Decorative / surface design in tailored placket, with or without collar.
5. Wrap around with short top (with/without sleeve, with/without collar)
6. Choli – Sleeve / Neck / yoke with style variations
7. Ghagra – Plain / Decorative and different styles

References;
2. Easy cutting- Juvekar, commercial tailors corporation pvt Ltd, 166 Dr.Ambedkar Road, Dadar.
3. Zarapker system of cutting- K R Zarapkar, Navneet publications Ltd
4. Dress Making – smt Thangam Subramaniam, Bombay tailoring and embroidery College, 32 North park Street, Ambattur, Chennai.
SEMESTER IV     CORE PAPER VI
FABRIC STRUCTURE AND DESIGN

Unit – I
Elements of woven design, methods of fabric representation weave repeat unit, draft & lifting
plan construction for elementary weaves – plain, warp rib, weft rib, twill, Modification of twills,
satin & sateen weaves, their derivates.

Unit – II
Ordinary & Brighten Honey comb, its modifications Huck a back & its Modifications; crepe
weaves ; Mock leno.

Unit – III
Extra warp & Extra weft figuring – single and two colors: planting, backed fabrics;
Warp & weft backed fabrics.

Unit - IV
Pile fabrics – Basic structure; twill back & sateen back; weft plush length density and fastness of
pile; Terry pile – 3 pile, 4 pile and 6 pile.

Unit V
Double cloth - classifications, self stitched – face to back, back to face ; stitched double cloth-
warp, weft and center stitched double cloth.

References:
1. Watson’s Textile Design and colour, Grosicki.Z. Newness Butter, Worths, London,
1980.

CORE PRACTICAL VII
FABRIC STRUCTURE AND DESIGN PRACTICALS.

1. Identification of weaves structure, ends per inch and pics per inch by
   1. Pick glass method
   2. Raveling method –

      Plain – Plain weave, rib weave, Matt Weave
      Twill – pointed twill, curved twill, Herring Bone twill and combination twill.
      Sateen and satin,
      Honeycomb
      Huck-a back
      Crepe weave.
SEMESTER – IV  CORE PAPER VII
WET PROCESSING

Unit – I
Typical sequence of processes. Object and methods

Unit II
Mercerization – Theory process - Methods – Chemicals – effects.
Equipments and chemicals for bleaching of cotton, viscose, cotton/viscose Polyester/ cotton.

Unit III
Dyeing – Classification of colorants – fastness properties of dyes

Unit IV

Unit – V
Shrink controlling - steaming.
Wet processing of polyester, Nylon, silk, wool and their blends.

References:
SEMESTER – IV  CORE PRACTICAL VIII
WET PROCESSING – PRACTICALS

Preparation of samples for processing – Desizing, scouring, Bleaching
Dyeing – Acid basic, direct, Napthol, Sulphur, Vat & Disperse dyes, reactive dyes
( Hot and cold).
Test of absorbency
Test of shrinkage.

SEMESTER IV  ALLIED PAPER IV
COMPUTER APPLICATION IN FASHION DESIGN PRACTICAL II

1. Drafting Basic patterns for children, ladies, Men’s apparel.
3. Lay planning for children, ladies and Men’s apparel
4. Pattern Manipulation for children, ladies, and Men’s apparel
5. Drafting different styles of sleeves, collars, and pockets.

SEMESTER – IV
SILL BASED SUBJECT  PAPER –II
SURFACE EMBELLISHMENT PRACTICALS

Prepare samples for the following

1. Hand embroidery – 20 stitches -10 samples


4. Smocking -3types
SEMESTER – V  
CORE PRACTICAL IX 
MEN’S APPAREL PRACTICAL

Designing, drafting and constructing the following garments for the features
Prescribed
List the measurements required and materials suitable
Calculate the cost of the garment
Calculate the material required – layout method and direct measurement method

1. S.B. Vest – with/ without collar, button attached, sleeveless
2. Full sleeve shirt – full open, shirt collar, patch pocket, full sleeve with cuff
3. Kalidhar kurtha – kali piece, side pocket, round neck, half open
4. Pyjama- Elastic /Tape attached waist
5. Pleated trousers – pleats in front, Darts at back, side pocket, fly with button /zip.
6. Night Dress– knee length, shawl collar, overlap front, with belt
7. S.B Coat – coat collar ,coat sleeve, pocket.

Reference;
1. Scientific garment quality – K M Illege and sons, Plot no 43, somuvar peth, pune, 411011
2. Easy cutting – Juvekar, commercial tailors corporation pvt ltd, 166, Dr.Ambedkar Road,Dadar
3. Commercial system of cutting - Juvekar, commercial tailors corporation pvt ltd, 166,
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4. Zarapker system of cutting – K R Zarapker Navneet Publications ltd
5. Dress making – Smt Thangam Subramaniyam, Bombay tailoring and embroidery college, 32
north park street,ambattur, Chennai

SEMESTER – V  
CORE PRACTICAL X 
COMPUTER APPLICATION IN TEXTILE DESIGN PRACTICAL I

1. WEAVE
   - Creation of various weaves
   - Creation of various stripes, checks, plaids, dobbby designs
   - Application of colors
   - Weave insertion
   - Weave association
   - Fabric simulation

2. DESIGN AND REPEAT
   - Creation of designs
   - Tracing of designs
   - Repeat setting
   - Changing of repeat
   - Application of colors.
3. JACQUARD
   - Creation of designs
   - Tracing of designs
   - Repeat setting
   - Application of colors
   - Application of weaves
   - Fabric simulation

4. KNIT
   - Creation of designs
   - Tracing of designs
   - Repeat setting
   - Application of stitches
   - Gauge setting
   - Fabric Simulation

SEMESTER V  CORE PAPER – VIII
CLOTHING CARE

Unit – I
Laundry equipment. Minimum requirements – Availability – Effective arrangements of space and equipment – purchase and maintenance of equipment.
Water – hard and soft water – Methods of softening water.

Unit – II

Unit III
Other agents used – stiffening agents – Natural and commercial starches – Preparation of starch; use blueing agents – their application – optical blues, bleaches, types of bleaches and other laundry reagents.

Unit – IV

Unit – V
Methods of finishing damping – Ironing Methods of ironing different garments - Drying equipments. Dry cleaning and storage. Visit to soap manufacturing factory and dry cleaning unit.
References:
4. Household textiles and laundry work durga Deulkar, Alma Ram & Sons, Delhi.

SEMESTER –V  CORE PRACTICAL XI
TEXTILE PRINTING PRACTICAL

Exercise 1: Preparation of sample for printing – cotton, silk, polyester
Exercise 2: Preparation of printing paste
Exercise 3: Preparation samples for hand block printing
Exercise 4: Stencil preparation & sample for stencil printing
Exercise 5: Screen preparation & samples for screen printing
Exercise 6: Tie & dye samples
Exercise 7: Batik samples.

SEMESTER V  CORE – PAPER IX
APPAREL PRODUCTION TECHNIQUES

UNIT I
History and origin of apparel industry; Trade policies related to apparel industry.
Origin, growth and categories of men’s apparel industry, women’s apparel industry and
children’s apparel industry.

UNIT II
Industry infrastructure – factors to be considered in selection of land,labour,capital – fixed
capital, working capital and machinery.

UNIT III
Apparel production method
- Design, sampling and costing
- Fabric section

UNIT IV
Fabric layout, cutting room and bundling, sewing section.

UNIT V
Finishing, Inspection, Quality control and packaging.
SEMESTER-V SKILL BASED SUBJECT PAPER –III
DYEING AND PRINTING METHODS

UNIT-I

UNIT-II
Direct printing: Block printing – Brief History, Preparation of design, Blocks, table, print paste and printing process
Stencil printing – Brief history, preparation of fabric, stencils (For one or more colour)
Materials used for preparing stencils, process involved and techniques used.

UNIT-III
Screen printing – brief history, Flat screen and Rotary screen printing, Preparation of screen, print paste, screen printing process,
Discharge printing – chemicals used, process involved.

UNIT-IV
Resist printing: Brief history, Batik printing wax used, Equipments required, process sequence and techniques used.
Tie and dye – Brief history, Equipments required, process sequence and techniques used.

UNIT-V
Other printing methods: Ink jet printing, Heat transfer printing, photo printing.

References:
SEMESTER VI  CORE PAPER X
MODERN FINISHING TECHNIQUES

UNIT I
Production sequence of textile fabrics – flow chart – brief description.
Finishes – classification – Importance of finishes – application methods

UNIT II
Mechanical finishes – methods and applications;
Aesthetic finishes: Luster – glazed, moiré, schreiner, embossed;
Drape – crisp and transparent, burnt out, sizing, weighting;
Texture – sheared, brushed, embossed, plisse, pleated, flocked, embroidered, napped, fulled;

UNIT III
Functional finishes – methods and applications – wrinkle free finishes, water repellent finish,
flame retardant finish, rot and mildew proof finish, antistatic finish, and soil release finish.

UNIT IV
Special purpose finishes – methods and applications – silicone finish, denim finish – stonewash
and enzyme wash; fragrance finish, UV protection finish, anti bacterial finish, and phase change
finishes.

UNIT V
Recent trends in finishing – micro encapsulation techniques, nano finishes.
Environmental pollution during chemical processing of textiles.
Treatment of textile effluents.

References:
   Inc., New Jersey, 2001
3. Textile Finishing by V. A. Shenai.
5. Functional Finishes by Lewin And Sello.
SEMESTER – VI  CORE PRACTICAL – XII
COMPUTER APPLICATION IN TEXTILE DESIGN  PRACTICAL - II

1. COLORING
   ➢ Importing the images
   ➢ Creation of various color ways
   ➢ Creating color atlas
   ➢ Creating various motifs, images

2. COLOR REDUCTION AND CLEANING
   ➢ Importing the images
   ➢ Cleaning of colors
   ➢ Reduction of colors
   ➢ Separation of colors

3. STORY BOARD AND CATALOGUING
   ➢ Importing the images
   ➢ Application of designs to images
   ➢ Creating story board

4. 3D TEXTURE MAPPING
   ➢ Importing the images
   ➢ Selecting the outline
   ➢ Grid edition
   ➢ Mapping
   ➢ Processing at various levels

SEMESTER – VI  CORE PAPER XI
KNITTING

Unit I
Knitting – Definition, classification and History, Types of knitting – hand and machine, characteristics of knitted goods.

Unit – II
General terms and principles of knitting Technology, Machine knitting, part of machine, knitted loop structure, stitch Density.

Unit – III

Unit IV
Warp Knitting – lapping variations – Tricot, raschel, simplex and Milanese – kitten raschel - single bar, Z bar, multi bar machines, types of threading , Production of nets, curtains, heavy fabrics, elasticized fabrics
Unit V
Care and maintenance of knitted material.

Reference:

SEMESTER – VI CORE PRACTICAL XIII
KNITTING PRACTICAL
1. Identification of knit sample by pick glass method and reveling method.
2. Identification of technical face side and back side.
3. Calculation of stitch density
4. Give its diagrammatic, graphical and symbolic representation.

Weft knits:
   1) Plain knit(single jersey)
   2) Double jersey-rib, interlock
   3) Jacquard

Warp knits:
   1) Tricot
   2) Raschel
SEMESTER VI    SKILL BASED SUBJECT    PAPER IV
FASHION PORTFOLIO PRESENTATION

1. Final design project should entail conceptualizing a design collection consisting of at least five ensembles which must demonstrate the creativity and understanding of the student towards the target customer. These collections should be displayed effectively in the form of a show or exhibition.

2. Presentation of final design project to a panel of examiners (Internal and External) in the form of a written report. Also, project which deals with the development of a product design can also be included.

PORTFOLIO DEVELOPMENT
PRACTICAL
Research conceptualize, illustrate at least four design projects each consisting of five garments with sourcing, costing and flat sketches. Swatches of embellishments and construction details should also be incorporated.

ELECTIVE I - A
TEXTILES AND APPAREL QUALITY CONTROL

Unit – I
Introduction and quality control concept, fabric faults, Grain, off grain, fabric width.

Unit II
Defects in weaving, dyeing printing and finishing. Bow and skew ness, color fastness for washing, rubbing light.

Unit - III
Shrinkage and wash ability. Sewing thread. Stitch length & stitches per unit length seam strength, seam slippage, seam finishes.

Unit IV

Unit – V
Packing and packaging. Labels types and importance.

Practicals:
1. Study of various types of labels on textile material.
2. Study of various types of labels on ready to wear garments.
3. Preparation of care label for the garment prepared individually.

References:
ELECTIVE I - B
FABRIC PRODUCTION AND PROCESSING

Unit I:
Fabric forming Techniques – Comparison of weaving and knitting – Principles and Comparison of weft and warp knitting - Classification of machines – Terms and definition of knitting – Basic structures and characteristics – Features of modern knitting machineries.

Unit II:

Unit III:

Unit IV:

Unit V:

BOOKS FOR REFERENCE:
ELECTIVE I - C
ENTREPRENEURIAL DEVELOPMENT

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.

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 Entrepreneur – IFCI, SFC, IDBI, ICICI, TIIC, SIDCS, LIC and GIC, UTI, SIPCOT – SIDBI and commercial Bank venture capitals.

Unit V:
Incentives and subsidies – Subsidied Services – Subsidy for market. Transport – seed capital assistance – Taxation benefit to SSI – role of Entrepreneur in export promotion and import substitution.

BOOKS FOR 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

2. Indian costumes – Ghurye.G.S.
SEMESTER VI    ELECTIVE II - A
ENTREPRENEURSHIP DEVELOPMENT & MANAGEMENT.

Unit I
Introduction to EDP Entrepreneurial motivation.

Unit – II
Enterprise planning. Identifying a feasible enterprise. Steps in setting up an enterprise

Unit – III
Types of enterprise sources of information about financial institutions

Unit – IV
Financing procedures. Resources management. Marketing and sales management

Unit – V
SWOT analysis – Strength weakness, opportunities and threat,
Legal issues – licensing, registration, municipal laws, insurance coverage, factory act,
Income tax, sales tax, and excise rules.

Practical:
1. Visit to various local entrepreneurs
2. Preparing individual project and presentation before the month of June.

Reference:


Elective II - B
APPAREL PRODUCTION MANAGEMENT

Unit I:

Unit II:
Unit III:

Unit IV:

Unit V:
Controlling – Need for co-ordinating – Meaning and importance of control – control process – types of control.

BOOKS FOR REFERENCE:

ELECTIVE II - C
BUSINESS FINANCE

Unit I:

Unit II:

Unit III:

Unit IV:

Unit V:
Sources and forms of Finance: Equity Shares, Preference Share, Bonds, Debentures and fixed deposits – features – advantages and disadvantages.
BOOKS FOR REFERENCE:

1. Essentials of Business Finance – R.M. Sri Vatsava
2. Financial Management – Saravanan Vel
5. Financial Management – M.Y. Khan and Jain

ELECTIVE III – A
INDIAN ART AND COSTUME

UNIT I
Art and Aesthetics
- Define art and classification of Indian art.
- The various kinds of art – visual, plastic, folk and popular art, the desi and the margi.

UNIT II
- Evolution of Indian form - Indian sculpture – major source for Indian costume
- Sculptures of Mahabalipuram
- Sculptures of Khajuraho
- Indian marble sculptures
- Ajanta Caves
- Ellora Caves
- Elephanta Caves
- Sculpture of Sanchi Stupa
- Sculpture of Sarnath

UNIT III
- Painting tradition in India – Murals & Miniature – Kalamkari, Madhubani, Pithoro, Tanjore, ravi varma, raga maliga etc.,

UNIT IV
- Costumes of India – Traditional Costume of different States of India
- Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, W. Bengal, Maharashtra, Rajasthan, Uttar Pradesh, Jammu and Kashmir, Gujarat, Madhya Pradesh.

UNIT V
Study of costumes during the following periods.
- Indus valley
- Mauryan and sunga period
- Gupta period
- Mughal period
- British period
References:
1. Costumes and textiles of Royal India – Ritu Kumar Published by Christie’s Books
3. Indian costumes – Ghurye.G.S.

Elective III - B
EXPORT ANALYSIS & DOCUMENTATION

Unit I:

Unit II:

Unit III:

Unit IV:

Unit V:
Pre shipment inspection and quality control – Foreign exchange formalities – Pre shipment documents. Shipment of goods and port procedures – Customs clearance.

BOOKS FOR REFERENCE:
1. Paras Ram, Hand Book of Import and export Procedures
ELECTIVE III - C
APPAREL QUALITY MANAGEMENT

Unit I:
Meaning of quality, testing and standard and their importance in apparel industry – Quality terminologies – Sources of international standards.


Unit II:
Inspection: Incoming and raw material inspection: Fabric inspection – 4-point system. In process/on-line inspection: Advantages – On line inspection during spreading, pattern making, cutting, sewing and ironing.
Final inspection: Sampling plans and AQL charts – Level of final inspection. Packing & packaging quality tests. Care labeling and international care symbols.

Unit III:

Unit IV:

Unit V:

Text Book

BOOKS FOR REFERENCE: