**Bharathiar University (CBCS Pattern)**

B.Sc Costume Design & Fashion (Vocational) with compulsory Diploma
(For the students admitted during the academic year 2008-2009 Batch and onwards)

**Scheme of Examination – CBCS Pattern**

<table>
<thead>
<tr>
<th>Part</th>
<th>Study Components</th>
<th>Course Title</th>
<th>Ins. hrs./week</th>
<th>Dur.H</th>
<th>CIA</th>
<th>Marks</th>
<th>Total Marks</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester I</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Language-I</td>
<td>6</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>English-I</td>
<td>6</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Core Paper I- Basic Skills in Garment Construction</td>
<td>3</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Practical I- Garment Construction Practical</td>
<td>5</td>
<td>3</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Paper II- Pattern Making &amp; Grading</td>
<td>4</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Allied Paper I - Sketching &amp; Fashion Illustrations Practical</td>
<td>4</td>
<td>3</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Environmental Studies #</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>50</td>
<td>50</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Semester II</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Language-II</td>
<td>6</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>English-II</td>
<td>6</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Core Practical II - Children’s Apparel- Practical</td>
<td>6</td>
<td>4</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Paper III – Principles of Design &amp; Application</td>
<td>3</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Practical III - Principles of Design &amp; Application- Practical</td>
<td>4</td>
<td>3</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Allied Paper II - Embroidery - Practical</td>
<td>3</td>
<td>3</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Value Education – Human Rights #</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>50</td>
<td>50</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 days Internship training to any Garment Unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester III</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Core Practical IV - Women’s Apparel-Practical</td>
<td>8</td>
<td>4</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Paper IV – Fashion &amp;Apparel Designing</td>
<td>5</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Paper V –Basic Textiles</td>
<td>5</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Practical V- Basic Textiles- Practical</td>
<td>3</td>
<td>3</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Allied Paper III - Computer Application in fashion Design-Practical-I</td>
<td>4</td>
<td>3</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skill based Subject 1 (Diploma Paper -I) Basic Draping – Practical</td>
<td>3</td>
<td>3</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence)# / Women’s Rights#</td>
<td>2</td>
<td>3</td>
<td>75</td>
<td>75</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Semester IV

<table>
<thead>
<tr>
<th>Core</th>
<th>Practical VI – Draping Practical</th>
<th>6</th>
<th>3</th>
<th>20</th>
<th>30</th>
<th>50</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>Paper VI – Fabric Structure &amp; Design</td>
<td>5</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td>Core</td>
<td>Practical VII Fabric Structure &amp; Design - Practical</td>
<td>3</td>
<td>3</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>Core</td>
<td>Paper VII - Wet Processing</td>
<td>3</td>
<td>3</td>
<td>20</td>
<td>55</td>
<td>75</td>
<td>4</td>
</tr>
<tr>
<td>Core</td>
<td>Practical VIII - Wet Processing Practical</td>
<td>3</td>
<td>3</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>Allied</td>
<td>Paper IV - Computer Applications in Fashion Designing – Practical II</td>
<td>5</td>
<td>3</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>5</td>
</tr>
<tr>
<td>Skill</td>
<td>based Subject 2 (Diploma Paper II) Surface Embellishments Practical</td>
<td>3</td>
<td>3</td>
<td>40</td>
<td>60</td>
<td>100</td>
<td>3</td>
</tr>
<tr>
<td>Tamil</td>
<td>@ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #)</td>
<td>2</td>
<td>3</td>
<td>75</td>
<td>75</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

### Semester V

| Core | Practical IX - Men's Apparel –Practical I | 6 | 4 | 40 | 60 | 100 | 3 |
| 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 | 4 |
| Core | Practical XI - Textile Printing - Practical | 4 | 3 | 20 | 30 | 50 | 2 |
| Core | Paper IX – Apparel Production Techniques | 5 | 3 | 20 | 55 | 75 | 4 |
| Elective | -I | 4 | 3 | 25 | 75 | 100 | 5 |
| IV | Skill based Subject3(Diploma) Dyeing & Printing Methods | 3 | 3 | 25 | 75 | 100 | 3 |

### Semester VI

| Core | Practical XII - Men’s Apparel- Practical-II | 6 | 4 | 40 | 60 | 100 | 3 |
| Core | Practical XIII - Computer Applications in Textile Design Practical-II | 6 | 3 | 20 | 30 | 50 | 2 |
| Core | Paper X - Knitting | 5 | 3 | 20 | 55 | 75 | 4 |
| Core | Practical XIV- Knitting Practical | 3 | 3 | 20 | 30 | 50 | 2 |
| Elective | –II | 4 | 3 | 25 | 75 | 100 | 5 |
| Elective | –III | 3 | 3 | 25 | 75 | 100 | 5 |
| IV | Skill based Subject 4 (Diploma Paper IV) | 3 | - | - | - | 100* | 3 |
| V | Extension Activities @ | - | - | 50 | - | 50 | 1 |

| Total | 3600 | 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)

<table>
<thead>
<tr>
<th>Elective – I</th>
<th>A</th>
<th>Textile and Apparel Quality Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Fabric Production and Processing</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Entrepreneurial Development</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective – II</th>
<th>A</th>
<th>Entrepreneurship Development and Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Apparel Production Management</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Business Finance</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective - III</th>
<th>A</th>
<th>Indian Art and Costumes</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Export Analysis and Documentation</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Apparel Quality Management</td>
<td></td>
</tr>
</tbody>
</table>
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 – PRACTICALS.

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**

**UNIT II**
Pattern making - Methods of pattern making (drafting draping, placement methods) preparation of paper pattern, advantages & disadvantages of different methods of pattern making, types of paper pattern, principles for pattern drafting, steps in drafting children’s and adults pattern (bodice, sleeve) importance of pattern details.

**UNIT III**
Relocation of darts – dart relocation by slash and spread method Converting darts to seams, converting darts to partial yoke, incorporating dart into seam. Fitting, principles standards, causes of poor fit, checking fit of garment, solving fitting, problems in various garments basic principles and fitting techniques, alteration of pattern for irregular figures.
UNIT IV
Grading - Definition types (manual) Manual – master grades, basic back, basic front, basic sleeve, basic collar and basic facing.

Pattern alteration – Importance of altering pattern General principles for pattern alteration. Common pattern alteration in a blouse.

UNIT V
Pattern layout Definition, purpose, rules in pattern layout, types of layout (methods), layouts for lengthwise striped design, fabric with bold designs, asymmetric designs, one way design. Economic layout with example (flared skirt). What can be done if cloth is insufficient, fabric cutting, transferring pattern markings.

References:
2. Pattern grading for womens clothes, the technology for sizing Gerry cooklin, backwell science ltd (1990)

SEMESTER I ALLIED PAPER I
SKETCHING AND FASHION ILLUSTRATION - PRACTICALS.

Unit I
Lines line drawings – object drawing and perspective view drawings – still and life drawing, shading with graphite pencils, enlarging and reducing motifs.

Unit – II
Study of human anatomy – in terms of shapes, size and movements. Figure types and achieving perfect proportions.

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

Unit IV
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.,

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 – using magazine – analyzing back of a normal figure in to fashion figure – using magazine –

Unit V
Illustrating pattern details Pockets sleeves, Yokes, skirts, trousers, tops etc., Trimmings and Embellishments. Creating fashion figures by collage based on themes.
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

CHILDREN’S APPAREL PRACTICALS.

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. Bib – variation in outline shape
2. Panty – plain or plastic lipid panty
4. Baba suit – knicker with chest piece attached (or) Romper
5. A – line petticoat – double pointed dart, neckline and armhole finished
with facing ( or) Petticoat with gathered waist.
6. Summer frock – with suspenders at shoulder line, without sleeve/ collars (or)
Angel top with raglan sleeve, fullness at neckline.
7. Yoke frock – yoke at chest line, with open, puff sleeve, gathered skirt ( or) frock
with collar, with / with out sleeve, gathered / circular skirt at waist line ( or)
princess line frock.
8. Knicker – elastic waist, side pockets

Reference:
Practical clothing construction – part I and II Mary Mathews, Cosmic Press,
Chennai (1986)
Zarapker System of cutting - - Zarapker K.R.Navneet Publications Ltd.,
Practical cutting and tailoring part II Eshwasri Anwahi, Lakhraj Hans R.B
Publications. Delhi.
SEMESTER – II  ALLIED PAPER II

EMBROIDERY PRACTICALS

Unit - I
Introduction - embroidery, development, basic equipments selection of needle and thread, fabric, methods of transferring the design, embroidery frame, care and preservation of embroidery articles and points to be considered while doing embroidery.

Unit – II
Hand embroidery Stitches – running, back stem, blanket, lazy daisy, chain, couching, coral, Herringbone, Fish bone, Feather – single and double, Roumanian, seed, cross, fly satin, long and short, French knot, bullion knot, double knot, chevron, sheaf stitch, fern stitch, Double back stitch, lettering – Alphabets and monograms, drawn thread work and cut work.

Unit III
Traditional Indian Embroideries – Origin, embroidery stitches used – Embroidery of Kashmir, Phulkari of Punjab, Gujarat- Kutch and Kathaiawar embroideries, Embroidery of Rajasthan, Kasuti of Karnataka, Chicken work of Lucknow, Kantha of Bengal - in all the above the types and colors used. Motifs and fabrics used and their historical importance.

Unit IV
World Embroidery – Introduction, Embroidery of Australia America – north & South, Africa. – North and west, Central Asia, India, Thailand and Bangladesh in all the above motifs, stitches and colors used an their historical importance.

Unit V
Machine Embroidery – General rule for doing machine embroidery, care and maintenance, first stitches (running) cording, satin, long and short, granite work or round stitch, eye let.

References:
1. World Embroidery” Caroline Crabtree, published in 1993, printed in Italy by OFSA SPA.
5. Singer Instructions for Art Embroidery and lace work” 8th Edition, Signer sewing machine company printed in U.S.A.
6. Indian Embroidery – Kamaladevi Chartophadhya wiley Einstein limited, Delhi
SEMESTER II  CORE PAPER – III
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

CORE PRACTICAL III
PRINCIPLES OF DESIGN AND APPLICATION – PRACTICALS

1. Drawing Diagrams or samples for the following:
   a. Application of principles of design in dress design
   b. Prang color chart
   c. Value chart
   d. Intensity chart
   e. Standard color harmonies

2. Preparing samples for surface trimmings
3. Drawing diagrams for persons who have unusual problems in dress
4. Design development for various & application of color.
SEMESTER III  CORE PRACTICAL - IV

WOMEN’S APPAREL – PRACTICALS

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. **Saree petticoat** – six panel, decorated bottom
2. **Blouse** – front open, fashioned neck, waist band at front, with sleeve
3. **Middi** – circular/gathered/pleated, with waist band
4. **Middi top** – kimono/raglon sleeve, gathers / belt at waist
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.
7. **Nightie** – with yoke, front open, with sleeve, full length
8. **Princess line dress** – knee length, with or without sleeve.

References:
Science Garment quality – K.M. Illege and Sons, Plot No.43 Somuvar peth, Pune 411 001.
Easy Cutting – Juvekar, Commercial Tailors Corporation Pvt Ltd 166 Dr Ambedkar Road, Dadar
Commercial system of cutting - Juvekar, Commercial Tailors Corporation Pvt Ltd, 166 Dr.Ambedkar Road, Dadar.
Zarapker System of cutting – K R Zarapker, Navneet Publications Ltd.,
Dress Making – Smt.Thangam Subramaniam, Bombay Tailoring and Embroidery College, 32 North Park street, Ambattur, Chennai.
Practical clothing construction- Part I and II Mary Mathews, Cosmic press, Chennai.

SEMESTER III  ALLIED PAPER III

COMPUTER APPLICATION IN FASHION DESIGN – I

PRACTICALS:

1. **Photoshop**: Creating effects, color application and creation, learning techniques and materials, developing ones own pallet according to fashion forecast.

2. **Corel Draw**: Drawing silhouette , construct styles and designs, 3 D animation.
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:
all of India.
2. Elements of fashion and apparel design, Sumathi G.J.(2002).
3. Inside the fashion business: Jeanette A Jarnow, Miriam Guerreiro: Mac Millan
Publishing Company, Newyork.
SEMMESTER III CORE PAPER – V

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, dobby 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 V
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

DIPLOMA 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

DRAPING PRACTICALS.

Unit – I
Introduction to draping and dress form, preparation of muslin and draping steps.
Marking and trueing of bodice front and back.

Unit – II
Draping Basic Skirt pattern & truing the skirt. Joining the skirt to the bodice Making and
truing of basic sleeve.

Unit III
Shaping the cap setting the sleeve and adjustment. Dart manipulation. Yokes and its
variations.

Unit IV
Princess lines

Unit V
Collars – Peter pan and mandarin. Sleeve Raglan and kimono.

References:
1. Dress pattern designing by Bray Natalie.
2. Dress Pattern designing by Natalie Bray.
3. Flat pattern cutting & modeling for fashion by Stanley Hellen.

SEMESTER IV      ALLIED PAPER IV

COMPUTER APPLICATION IN FASHION DESIGN – II PRACTICALS.

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

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:

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:

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
Diploma Paper –II
SURFACE EMBELLISHMENT PRACTICALS

Prepare samples for the following
1. Hand embroidery – 20 stitches -10 samples
3. Applique ( machine / hand )- 3 types
4. Smocking -3types
5. Laces – 6 types
6. Bead Work -1 sample
7. sequins work -1 sample
8. Zardosi work -1 sample
10. Bows –any 2 types
11. Tassels and fringes -2-3 samples.
12. Mirror work -1 sample
13. Fixing the stones-1 sample.

SEMESTER – V
CORE PRACTICAL IX
MEN’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 – lay out method and direct measurement method

1. **S.B.Vest** – with/without collar, button, attached, sleeveless .
2. **T-shirt** – Front half open, zip attached, with collar
3. **Slack shirt** – with collar, half sleeve, patch pocket,
4. **Full sleeve shirt** – full open, shirt collar, patch pocket, full sleeve with cuff.
5. **Kalidhar Kurtha** - Kali piece, side pocket, round neck, half open
6. **Nehru Kurta** – half open, stand collar, with/without pocket, full sleeve
7. **House coat** – knee length, shawl collar, overlap front with belt.

References:
Scientific Garment quality – K.M. Illege and sons Plot No.43, Somuvar Peth, Pune 411 011.
Easy cutting – Juvekar, Commercial Tailors Coporation Pvt. Limited , 166, Dr.Ambedkar Road, Dadar.
Commercial system of cutting, - Juvekar, Commercial Tailors Coporation Pvt. Limited , 166, Dr.Ambedkar Road, Dadar.
Zarapker System of cutting, - K.R. Zarapker, Naveent Publications Limited,
SEMESTER V  
CORE PRACTICAL X  
COMPUTER APPLICATION IN TEXTILE DESIGN – 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 PRACTICALS.

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 TECHNIQUE.

Unit – I
History of apparel industry

Unit – II
Industry infrastructure – land, labour and 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 and quality control, packaging.

Practicals.
1. Visit to various apparel production unit and preparing the report.

References:

SEMESTER-V     Diploma 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 PRACTICAL – XII
MEN’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. Pleated trousers – pleats in front, darts at back, side pocket, fly with button/zip.
2. Bell bottom trousers – pleat less, bellbottom, side pocket, fly with button/zip
3. Boxer shorts
4. Bermudas
5. Jeans – tight fitting, jeans, cut, with pockets
6. Pyjama – elastic/tape attached waist, with fly
7. S.B. Coat – coat collar, coat sleeve, pocket

Reference:
Scientific Garment quality – K.M. Illege and sons Plot No.43, Somuvar Peth, Pune 411 011.
Easy cutting – Juvekar, Commercial Tailors Coporation Pvt. Limited, 166, Dr. Ambedkar Road, Dadar.
Commercial system of cutting, - Juvekar, Commercial Tailors Coporation Pvt. Limited, 166, Dr. Ambedkar Road, Dadar.
Zarapker System of cutting, - K.R. Zarapker, Naveent Publications Limited,

SEMESTER – VI      CORE PRACTICAL – XIII
COMPUTER APPLICATION IN TEXTILE DESIGN – 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 X
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 XIV
KNITTING PRACTICAL

1. Knit a fabric in a laboratory – knitting machine
2. Identification of knit sample by pick glass method and raveling method
3. Identification of technical face side and back side
4. Calculation stitch density

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

Warp Knits
1. Tricot
2. Raschel.

SEMESTER VI  DIPLOMA 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.

PORT POLIO 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 skewness, color fastness for washing, rubbing light.

Unit III
Shrinkage and washability. 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:
Formation of tuck and miss stitches and their influence on knitting fabrics – Methods and structures – Need and possibilities. Elastomeric yarn types and its effects in knitting –

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:
2. Visit to various local entrepreneurs
3. 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 – SaravanaVel
5. Financial Management – M.Y. Khan and Jain
ELECTIVE III – A
INDIAN ART AND COSTUME

Unit I
Traditional forms of art

Unit II
Evolution of Indian form Indian sculpture – Major source for Indian costume

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

Unit IV
Study of costumes during the following periods.

- Indus valley
- Vedic period
- Mauryan and sunga period
- Satavahana period
- Kushan period

Unit V
Study of costumes during the following periods.

- Gupta period
- Mughal period
- British period
- Contemporary period

References:
5. Costumes and textiles of Royal India – Ritu Kumar Published by Christie’s Books

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:**