B.Sc. Fashion & Apparel Design (CBCS) Syllabus

(I to VI Semesters)

2014-15 onwards

DEPT. OF APPAREL TECHNOLOGY & MANAGEMENT
CENTRAL COLLEGE CAMPUS,
BANGALORE 560001
# B.Sc.- FASHION AND APPAREL DESIGN (CBCS)

## SEMESTER I

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*The student shall undergo 30 day craft document programme after approval from the institute during the semester holidays between 4th and 5th semesters.

### SEMESTER VI

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A stands for theory & B stands for practical
I Semester
B.Sc. (Fashion & Apparel Design)
FIBRE & YARN SCIENCE

FAD103A
Total Hrs: 48
Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives
- To impart the knowledge of fibres, sources, their identification and properties
- To provide students with the knowledge of yarn science and their properties

Unit 1 4hrs
Introduction to textile fibers-Definition, Sources, Classification and properties of textile fibres

Unit 2 6hrs
Cellulose fibers-Cotton, flax, kapok, hemp, ramie- Properties and end uses, Protein fibers-Silk, Wool – Properties and end uses

Unit 3 6hrs
Regenerated cellulose fibers- Viscose Rayon, Acetate Rayon, Tencel, Modal, Bamboo, Lyocel – production source, properties and end uses

Unit 4 6hrs
Synthetic fibers-Nylon, polyester, acrylic and modacrylic- properties and end uses, Polyethylene, polypropylene, olefin, Elastomeric fibers (spandex and lycra)- End uses.

Unit 5 10hrs
Yarn manufacturing process for short staple fibers, Spinning Process:- Ring and open end yarn spinning. Flowchart for manufacturing carded, combed yarn and folded yarn, Difference between Rotor, Ring spinning and Air jet spinning

Unit 6 8 hrs
Polymers - Polymerization, degree of Polymerization, different types of polymers- addition and condensation, orientation and crystallinity, characteristics of fiber forming polymers, general physical and chemical properties of fibers.

Unit 7 6 hrs
Texturisation - types (simplex and complex yarns) and uses, Blends- types, uses of blended yarns.

Unit 8 2 hrs
Sewing threads- types and properties, fancy yarns-types and uses.

References

I Semester
B.Sc. (Fashion & Apparel Design)
FIBRE & YARN SCIENCEPracticals

FAD103B
16 practicals of 3 hrs each

Exam- 3 hours
Exam- 35 marks
Internal Assessment-15

Unit 1
Identification of different types of fibres by physical & chemical methods- cotton, Viscose, Silk, Wool, polyester, Nylon fibres

Unit 2
Geometrical properties of yarn – Twist, Count of the yarns using different yarn numbering system

Unit 3
Identification of yarns by physical method– spun & filament yarns, ply & novelty yarns

Unit 4
Identification of varieties in Sewing threads & study of their properties like count, structure and twist.
I Semester
B.Sc. (Fashion & Apparel Design)
ELEMENTS OF FASHION & DESIGN

FAD104A
Total Hrs: 48 Exam Hours: 3
Exam Marks: 70 Internal Assessment: 30

Objectives:
- To introduce students to elements and principles of design
- To impart knowledge on fashion art and its importance

Unit 1
Art Media and Application – pencils, colour pencils, oil pastels, water colour, poster colours, acrylic colours, fabric colours, markers, collage, frottage, montage.

Unit 2
Elements of Fashion process: Fashion origin, evolution- with examples from different eras till French revolution, Fashion cycles, Fashion theories and terminologies

Unit 3
Basic sketching techniques and sketching from life, Perspective and its uses, Grid technique of rendering

Unit 4
Introduction to Anatomy, study of bone and muscular structure, proportions of males, females and children. Study of face, torso, legs and arms

Unit 5
Elements of Design (point, line, form, shape, space, size, texture and colour), Principles of Design – (harmony, proportion, balance, rhythm and emphasis) Colour Theory (Prang, Munsell colour system, Pantone Colours, colour wheel, colour value scale, grey scale, colour schemes, colour psychology, colour and emotions, Indian approach to colour).

Unit 6
Elements of Fashion illustration: Introduction to Fashion illustration-History, importance, artists and illustrators of national and international repute.

Unit 7
Introduction to Fashion Art, Proportion and the Fashion Figure- 8 head, 10 head, 12 head theory of fashion drawing

References:
I Semester
B.Sc. (Fashion & Apparel Design)

ELEMENTS OF FASHION & DESIGN

Practicals
FAD104B
16 practicals of 3 hrs each

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15

Unit 1
3
Introduction to art media and its applications, Line Sketching and Painting techniques, Object Drawing, Simple rendering of art materials using pencil and colour pencils, Still life of simple objects and fabrics draped at a distance using wet media, Nature sketch of flowers and leaves using pastels and charcoal, Landscape painting using mix media, Perspective drawing – 1pt, 2pt, 3pt.

Unit 2
3
Elements of design: Point, Line, Shape, Space, Color and texture. Principles of design- proportion, balance, rhythm, Emphasis and harmony.

Unit 3
4
Colour Schemes and Free hand drawing and Design, Grey scale, colour value scale (10 values), Colour wheel, colour scheme- primary, secondary, tertiary, color scheme monochromatic, achromatic, complementary, double split ,analogues using natural/geometric/ abstract/ stylized/conventionalmotifs, Tints, Shades, cool & warm colour.

Unit 4
3
Fashion Illustration basics, Simple blocking and fleshing of the Fashion figure. 8 head, 10 head, 12 head figures in simple standing poses.

Unit 5
3
Fabric rendering: Learning to simulate textures of various fabrics- Cotton, silk, fur, denim, print, georgette, chiffon, knitted, crochet, lace, embroidered.
I Semester
B.Sc. (Fashion & Apparel Design)

PATTERN MAKING & GARMENT CONSTRUCTION- I

FAD105A
Total Hrs: 48
Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- To impart skills in basic techniques of pattern making
- To provide the knowledge of different machines used for sewing

Unit 1
Introduction to pattern making & Garment construction, History of sewing machine. Introduction to sewing machine: Domestic sewing machine, Industrial sewing machine, difference between Domestic & Industrial sewing machine, parts of a sewing machine, Varieties of industrial sewing machines- Single needle machine, double needle machine-lock stitch & chain stitch machines over-lock machine, sewing machine needle-types, parts & functions, care and maintenance of sewing machine, sewing threads- function, performance, characteristics.

Unit 2
Introduction to Tools for pattern making and Garment construction- Measuring tools, marking tools, Cutting tools, sewing tools, Pressing tools, different GSM paper & its uses.

Unit 3
Introduction to Basic hand Stitches : Application of Temporary and permanent stitches, Methods, importance and applications of basting, running, tacking, hand overcast, button hole, hemming stitches- plain & blind hemming, Stitches & Seams: Definition, terminologies, Specification ASTM standards, stitch properties, stitch classes, stitch types Seams: Definition, terminologies, seam Dimensions, seam classes, super imposed, Lapped, bound, Flat.

Unit 4
Pattern making terminologies & symbols (notches, punch/circles,) Pattern information (grain, part, piece, cut symbols) seam allowance, fabric terms (grain, Bowing)

Unit 5
Figure types & figure analysis (leg types, arm types, shoulders, abdomen, bust back relationship, waist hip relationship and stance). Body & garment relationship, Standardization, importance of body measurements

Unit 6
Introduction to basic pattern- commercial and custom made patterns

References
1. Bane Allynne, Flat pattern design, McGrawHill1 pub... USA
5. Patric Taylor et.al., Grading for the fashion industry, StanelyThomes ltd., 1990
I Semester
B.Sc. (Fashion & Apparel Design)
PATTERN MAKING & GARMENT CONSTRUCTION- I

Practicals
FAD105 B
16 practicals of 3 hrs each

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15

Unit - 1
2
Sewing machine- different kinds-functions-uses-attachment-practice on paper, stitching on fabric (straight, curves, corners and circular)

Unit 2
3
Sketching the Basic sewing machine and parts, threading the Single needle machine, loading bobbin and bobbin case, fixing and removing the needle, care and maintenance of sewing machines, oiling.

Unit 3
2
Sewing techniques - Basic hand stitches- basting, running, tacking, hand overcast, buttonhole, hemming stitches - plain & blind hemming, slip stitch, tailor’s tack

Unit 4
2
Seam & seam finishes- Plain, flat fell, French, turned & stitched, lapped, double top, pinked, over lock, & pinked and stitched

Unit 5
2
Working of over lock machine and double needle lock stitch machine

Unit 6
2
Pattern preparation for women’s basic blocks front, back, sleeve & skirt

Unit 7
3
Preparation of muslin basic blocks, test fitting, front, back, sleeve and skirt, pattern alterations
II Semester  
B.Sc. (Fashion & Apparel Design)  
FABRIC SCIENCE & ANALYSIS  
FAD203A  
Total Hrs: 48  
Exam Hours: 3  
Exam Marks: 70  
Internal Assessment: 30

Objectives:  
- To impart knowledge on woven fabrics  
- To help students understand fabric formation process

Unit 1  
2 hrs  
Introduction on different methods of fabric formation- woven, knitted and nonwoven fabrics, Properties and end uses

Unit 2  
12hrs  
Woven Fabric formation – weaving preparatory, objectives and brief study of process- winding, warping, sizing, Drawing and denting, Weft winding, Introduction to Khadi, Hand loom and power loom Fabrics. Classification of looms, Passage of material through loom, study of primary and secondary motions, Principle of Shuttleless loom Viz Multiple gripper, Rapier, Airjet, Waterjet looms. Advantages of unconventional looms over conventional looms

Unit 3  
6 Hrs  

Unit 4  
12hrs  
Elementary weaves – Classification of woven fabrics. glossary and characteristics, construction, salient features- of Plain weave – variation (rib and Basket), Twill weave – variation (RHT, LHT, Pointed and Herringbone) and Satin / Sateen weave – variation. Fabric Design and graphical representation of the above weaves. Introduction and salient features of Crepe fabrics like georgette, chiffons, Extra threads, Warp and weft pile and Brocade and damask, Terry pile structures.

Unit 5  
8 hrs  
Introduction to Knitting – Classification, difference between warp and weft knitting, Basics of weft knitting, Loop diagram and properties of basic weft knitted structures, Modification of weft knitted structures.

Unit 6  
8 hrs  
Brief discussions of important fabric manufacturing clusters in India and their salient features- Kancheepuram, Arni, Kumbakonam, Chanderi, Maheshwari, Salem and Karur, Bangalore, Mysore, Ilkal, Guledgudda, Kota, Banaras, Suhalkuchi, santhipur, Beharampur of Orissa, Pochampalli and panipat.

Reference:  
3. Murphy, W.S. “Handbook of weaving” Abhishek publication.  
II Semester
B.Sc. (Fashion & Apparel Design)
FABRIC SCIENCE & ANALYSIS

Practicals
FAD203B
16 practicals of 3 hrs each

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15

Unit 1 14
Analysis of different fabrics for clothing construction and weaves like Plain, twill, Sateen, satin honeycomb, herringbone and mock leno etc. and finding the particulars like fabric geometrical parameters and cover factor.

Unit 2 2
Collection and portfolio preparation of 25 different commercial samples with different weaves and weight for apparels, furnishing, House hold application, support material for garments and trims
II Semester
B.Sc. (Fashion & Apparel Design)
FASHION ILLUSTRATION & DESIGN
FAD204A
Total Hrs: 48  Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- Introduction to fashion illustration and its role in fashion design
- Basics of clothing origins

Unit 1  4 hrs
Introduction to fashion illustration and brief history of fashion illustration, Study of two well known Fashion Illustrators.

Unit 2  8 hrs
Fashion figure, study of various proportions, The balance line in drawing figures, gestures and movements. 8 head, 10 head, 12 head figures, the fashion face, arms, legs, Hands and feet. Illustrating male figure and children, Figure analysis, body types, designing for diverse body types and ages

Unit 3  8 hrs
Fashion terminologies – fashion, fad, cycle, style, classics, boutique, trend, haute couture, designer, prêt a porter, silhouette, croquis, taste, Fashion icon, fashion follower, muse

Unit 4  7 hrs
Origins of fashion and clothing theories, Clothing as modesty, protection, status and religious symbol, Fashion as status symbol, the major fashion centers and Fashion theories

Unit 5  6 hrs
Garment Features – types of silhouettes, collars, yoke variations, pockets, cuffs, sleeves Trousers, Fashion silhouettes - types of silhouettes, blouses formal, casual, and shirts – men and women. Skirts flared, pencil, circular, trousers, collars, cuts, yokes, pockets, cuffs as seen in illustration

Unit 6  8 hrs
Fashion Psychology, role of clothing in physical, social, psychological and cultural scenario, Human behaviour and clothing, Clothing and gender differentiation

Unit 7  7 hrs
Fashion designers, history and look into design concepts of famous designers, both Indian and International.

References:
II Semester
B.Sc. (Fashion & Apparel Design)
FASHION ILLUSTRATION & DESIGN

Practicals
FAD204B
16 practicals of 3 hrs each

Exam- 3 hours
Exams- 35 marks
Internal Assessment- 15

Unit 1
Fashion illustrations – 8 head, 10 head, 12 head figures standing, moving and Drawing
male, female and children figures, Model drawing.

Unit 2
Fashion figure details and stylization of various parts, including the fashion face, torso, limbs
and features using various media

Unit 3
Garment Features – types of collars, cuts, yokes, pockets, cuffs, sleeves (5 each)

Unit 4
Drawing of fashion silhouettes - Types of silhouettes, blouses, shirts. Skirts, trousers, dress

Unit 5
Foreshortening of figures, grouping of figures. – Thematic figure composition

Unit 6
Preparation of portfolio of five designs each inspired by one Indian and one international
designer
II Semester
B.Sc. (Fashion & Apparel Design)
PATTERN MAKING & GARMENT CONSTRUCTION - II

FAD205A
Total Hrs: 48

Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- To introduce the concept of garment making.
- To impart knowledge and skills required for garment components.

Unit 1 4hrs
Fullness- Darts, pleats, tucks, gathers, Sleeves- Definition, terms, classification, types-basic sleeve, gathered, bell, kimono, raglan, leg of mutton & construction

Unit 2 6hrs
Dart Manipulation- conversion of darts to tucks, pleats, gathers, seamlines etc.

Unit 3 6hrs
Collars - Definition, terms, classification, and types – Peter pan, sailor, Turtle collar, shawl, formal shirt collar, Mandarin, collar with stand & its variations & construction

Unit 4 4hrs
Yokes- Definitions, purpose, types-with fullness & without fullness, Shapes & construction

Unit 5 4hrs
Pockets- Definitions, purpose, Patch pockets, Patch pockets with flap, Seam pockets, welt pockets & variations

Unit 6 4hrs
Neck line Finishes- piping, facing (bias facing, shaped facing).

Unit 7 6hrs
Plackets- definition, types Self, front placket, continues bound placket, two piece sleeve placket and shirt placket

Unit 8 6hrs
Skirts – Basic-flared, circular, gathered, pleated, basic waist band application

Unit 9 4hrs
Dress categories: with waistline without waist line, silhouettes, torso dress, princes, panel & drafting

Unit 10 2 hrs
Sleeves – definition, terminologies, types- Sleeves along with bodice and set in sleeves.

Unit -11 2 hrs
Fasteners- press buttons, hook & eye, shirt button, button holes, concealed zippers & zips

References:
II Semester
B.Sc. (Fashion & Apparel Design)
PATTERN MAKING & GARMENT CONSTRUCTION – II

Practicals
FAD205B
16 practicals of 3 hrs each

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15

Unit 1
Fullness – gathers, pleats, ruffles, tucks, godets etc.

Unit 2
Dart Manipulation- conversion of darts to tucks, pleats, gathers, seamlines etc.

Unit 3
Sleeves- plain, gathered, raglan, kimono

Unit 4
Collars- peter pan, turtle neck, Chinese, shawl, shirt

Unit 5
Yokes- With and without fullness style lines

Unit 6
Pockets-Patch pockets, Patch pockets with flap, Seam pockets.

Unit 7
Finishes- neckline finishes- facing, shaped facing and piping/binding.

Unit 8
Plackets and finishing- continuous/ one piece, bound/ two piece placket
Zippers- applications lapped zip, centered zip, concealed zip, fly zip
III Semester
B.Sc. (Fashion and Apparel Design)
TEXTILE WET PROCESSING

FAD303A
Total Hrs: 48
Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- To impart knowledge of textile and garment wet processing
- To introduce students to various chemicals, dyes and auxiliaries used for chemical processing

Unit 1 6 hrs
Introduction to wet processing, sequence of wet processing operations for cotton, silk and wool, Brief discussion on Equipments and machineries used for wet processing.

Unit 2 8 hrs
Preparatory processes: Cotton yarn and fabrics-Different methods and process parameters used for singeing, Desizing, scouring, bleaching and mercerization, Silk Yarn and Fabrics - Degumming, Bleaching, Wool: Scouring, Carbonization and Bleaching. Brief discussion on preparatory process used for Polyester blends and polyester fabrics.

Unit 3 8hrs
Dyeing- Introduction, classification, Methods of dyeing: stock, yarn, piece and union, application of direct, basic, acid, vat, reactive and disperse dyes for cotton, silk and wool yarn and polyester fabrics.

Unit 4 8 hrs
Printing methods - Block, screen, Transfer and Digital printing, Styles of printing—Direct, resist, discharge and transfer, after treatments for dyed and printed goods washing, steaming and drying.

Unit 5 8 hrs
Finishes- definition, types- Temporary and permanent Finishes, Basic/routine—Tentering, Decatising, sanforising, calendaring, Functional/ special-waterproof and water repellent, Wrinkle free, antimicrobial, Flame retardant and other special finishes.

Unit 6 4hrs
Garment processing and finishing: Importance of garment dyeing and finishing. Special finishes used for denims.

Unit 7 6 hrs
Care of fabrics – Principles of laundering, stain removal, various solvents used and different methods of washing, soaps and detergents used during washing.

References
3. Kate Broughton textiles Dyeing , Rockport publishers, 1996
5. Rosi Robinson ‘Creative Batik’ Search Press,2004
### III Semester
B.Sc. (Fashion & Apparel Design)
TEXTILE WET PROCESSING

<table>
<thead>
<tr>
<th>Practicals</th>
<th>Exam- 3 hours</th>
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<td>FAD303B</td>
<td>Exam- 35 marks</td>
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<td>16 practicals of 3 hrs each</td>
<td>Internal Assessment- 15</td>
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<thead>
<tr>
<th>Unit 1</th>
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<tbody>
<tr>
<td>Scouring, Bleaching and Mercerization of Cotton yarn/Fabric</td>
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<tr>
<th>Unit 2</th>
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<tr>
<td>Degumming and Bleaching of silk yarns</td>
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<tr>
<th>Unit 3</th>
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<tbody>
<tr>
<td>Dyeing of cotton yarn/Fabric by Direct, reactive, Vat dyes</td>
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<tr>
<th>Unit 4</th>
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<tr>
<td>Dyeing of silk yarn/ Fabric by acid and reactive dyes.</td>
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<tr>
<th>Unit 5</th>
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<tbody>
<tr>
<td>Dyeing of polyester yarn/fabric using Disperse dyes</td>
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<tr>
<th>Unit 6</th>
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<tbody>
<tr>
<td>Printing of fabric using screen and Block using pigment, reactive and direct dyes</td>
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<tr>
<th>Unit 7</th>
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<tr>
<td>Tie and dye of cotton or silk fabric using reactive colors</td>
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<tr>
<th>Unit 8</th>
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<tbody>
<tr>
<td>Batik printing of cotton and silk fabric</td>
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</tbody>
</table>
III Semester
B.Sc. (Fashion & Apparel Design)
FASHION ART AND DESIGN

FAD303A
Total Hrs: 48  Exam Hours: 3  Exam Marks: 70
Internal Assessment: 30

Objectives:
- To help students to understand the fundamental and principles of figure design
- To understand different illustration technique and dynamic figure sketching

Unit 1  6hrs
Design – Types, design development, motif, pattern and layout, design manipulation, inspiration from nature and history. Types of motifs from India, China, Japan, Persia-traditional, stylized, geometric, abstract.

Unit 2  6hrs
Fashion design – Definition, Fashion categories based on age and activity – Types- casual, formal, sports and ethnic.

Unit 3  8hrs
Flat sketch and spec- Its importance and application, design sketching, ways of layout, flats for men, women and children’s wear.

Unit 4  6hrs
Designing of dress based on figure types- colour combination, various garment to create optical illusion.

Unit 5  8hrs
Clothing and personality, Clothing and attitude, Clothing and motivation, Grooming.

Unit 6  6hrs
A detail study on one Indian and International designer – concept, design, creation and collection of Gianni Versace, coco chanel, Balenciaga, Stella McCartney, Anita Dongre, RituKumar, RituBeri, Wendell Rodricks, Raghavendra Rathod, Sabyasachi Mukherjee.

Unit 7  8hrs
Study of advanced illustrative Techniques and three dimensional views.

References
4. Lauzzana and Raymond, "International Director Of Design", Peurose, USA, 3rd edition, 1995
III Semester
B.Sc. (Fashion & Apparel Design)
FASHION ART AND DESIGN

Practicals
FAD303B
16 practicals of 3 hrs each

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15

Unit: 1
Design development – motif, design, pattern and repeats, full, 1/4th, 1/2, 3/4th drop, brick, mirror, ogee, geometrical forms- concentric, corner, circular, and cylindrical.

Unit: 2
Body figures and features- Face- eyes, nose, lips, ears, arms and legs , Hair styling- women’s, men, different hair coloring, retro, punk, hip hop, hippe, traditional and bridal.

Unit: 3
Figure drawing – Fashion figure, stylized figure of 10 and 12 head for different figure postures.

Unit: 4
Fabric rendering – Fashion rendering on croquis- woven-cotton, denim, lace, net, corduroy, printed- natural, abstract, stylized, knits- pearl, rib and cable.

Unit: 5
Fashion sketching of advanced illustration techniques and 3 dimensional views. (only hand)
Development of Research Boards on inspiration, mood, colour and texture.
III Semester
B.Sc. (Fashion and Apparel Design)

PATTERN MAKING & GARMENT CONSTRUCTION - III

FAD305A
Total Hrs: 48

Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objective:
- To familiarize students with clothing construction for different sizes & categories

Unit 1 6hrs
Definition layout, importance, principles, types of layout, importance of fabric estimation, advantages, methods of estimating material requirement for garment- easy method & formula method of estimation.

Unit 2 3hrs
Introduction to manual and computerized pattern development, mini marker. Softwares used for pattern development. Introduction to Digitizer plotter and scanner.

Unit 3 3hrs
Handling special fabric-factors for consideration while making patterns & garment construction using special fabrics-stretch fabrics, knit, checks, plaids, velvet, leather, fur & lace.

Unit 4 6hrs
Interlining- interfacing- materials, types, properties, applications & machinery

Unit 5 6hrs
Bifurcated garments: Introduction of culottes, trouser & its variations

Unit 6 6hrs
Foundation garments- Introduction, materials used & types of fitting for men’s innerwear briefs & trunk., swimwear Women’s innerwear brassier, panties and swim wear.

Unit 7 6hrs
Fitting- principles of fitting, standards for a good fit, e-fitting, body scanner, 3D simulators.

Unit 8 6hrs
Pattern alteration techniques- pivot, slash & seam method-length- width- front-back-sleeve shirt-Skirt-trousers

Unit 9 6hrs
Grading- definition, sizes, principles, types, grading points, & importance of manual and computerized grading and software’s used for grading.

References:
2. Patric Taylor et.al., Grading for the Fashion Industry, Stanley Thomas Ltd., 1990
#### III Semester

**B.Sc. (Fashion & Apparel Design)**

**PATTERN MAKING & GARMENT CONSTRUCTION - III**

<table>
<thead>
<tr>
<th>Practicals</th>
<th>Exam- 3 hours</th>
<th>Exam- 35 marks</th>
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<tbody>
<tr>
<td>FAD305B</td>
<td>Internal Assessment- 15</td>
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<tr>
<td>16 practicals of 3 hrs each</td>
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<tr>
<th>Unit</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Unit 1</strong></td>
<td>4</td>
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<tr>
<td>Designing &amp; construction of garments with style features using drafting, flat pattern technique- kids wear, Casual ladies shirt, computerized pattern development for children’s, men and women’s.</td>
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<tr>
<td><strong>Unit 2</strong></td>
<td>3</td>
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<tr>
<td>Designing &amp; construction of garments with style features, men’s shirt/ women’s top</td>
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<tr>
<td><strong>Unit 3</strong></td>
<td>5</td>
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<tr>
<td>Designing with style features and constructing men’s and women’s trouser</td>
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<tr>
<td><strong>Unit 4</strong></td>
<td>2</td>
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<tr>
<td>Designing &amp; construction waist coat- Men’s/Women’s.</td>
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<tr>
<td><strong>Unit 5</strong></td>
<td>2</td>
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<tr>
<td>Manual and computerized grading of patterns – Men’s, Women’s and Kids</td>
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</tbody>
</table>
IV Semester
B.Sc. (Fashion and Apparel Design)

HISTORY OF TEXTILES AND COSTUMES

FAD403A
Total Hrs. 48  
Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
• Imparting Knowledge of textiles through the previous centuries to influence the sense of design, symbolism of motifs and colours

Unit 1:  
Introduction to world textiles and costumes- History, Types, Motifs & Symbols  
5 Hrs

Unit 2:  
Pre-historic textiles & costumes- Indus Valley, Egyptian, Mesopotamian, French, Greek, Roman, Japanese & Byzantine  
8 Hrs

Unit 3:  
Ancient Indian textiles & costumes- Vedic, Mauryan, Kushans, Satavahanas, Gupta & Mughal  
8 Hrs

Unit 4:  
French revolution, French costumes- from Renaissance to 20th century  
3 Hrs

Unit 5:  
Textiles & costumes of Colonial, Victorian, Edwardian Era, WW I & WW II, factors influencing Costume Change- style, religious, location, climatic period & world affairs  
6 Hrs

Unit 6:  
8 Hrs

Unit 7:  
A study of regional textiles & costumes of India- north, east, west & south  
8 Hrs

References:
4. Parul Bhatnagar, Traditional Indian costumes & textiles”, Abhishek Publication.2004
IV Semester
B.Sc. (Fashion & Apparel Design)
HISTORY OF TEXTILES AND COSTUMES

Practicals
FAD403B
16 practicals of 3 hrs each

Exam- 3 hours

Exam- 35 marks

Internal Assessment- 15

Unit 1: 3
Sketching of costumes of Egyptian, Greek, Roman, French, Chinese & Japanese

Unit 2: 3
Sketching of costumes – Indus valley, Vedic, Mauryan, Kushans & Gupta.

Unit 3: 3
Sketching of costumes – Mughal (men & women)

Unit 4: 3
Sketching of regional costumes of India (men & women)

Unit 5: 4
Preparation of concept, Research and Mood board for contemporary design based on one world costume and one Indian costume.
IV Semester
B.Sc. (Fashion and apparel Design)
TEXTILE AND APPARELTESTING

FAD404A
Total Hrs: 48

Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives

- To help students to understand the testing of fabrics and garment accessories.
- To provide students with the knowledge on testing.

Unit 1
6Hrs
Introduction to textile testing, objectives of testing, Selection of samples for testing

Unit 2
4Hrs
Yarn testing - yarn count, Yarn twist, twist direction, amount of twist, and effects of twist on fabric properties, measurement of twist.

Unit 3
12Hrs
Fabric testing- fabric dimensions- length, width, thickness, determination of fabric weight - GSM measurement and its application to different fabrics, cover factor, air permeability, stiffness, drape, crease resistance, abrasion resistance, pilling, bow & skew.

Unit 4
6Hrs
Determination of colour fastness to laundering, rubbing, light and perspiration, Fabric shrinkage

Unit 5
8Hrs
Tensile testing of textiles- Terminology and definition- load, elongation, stress, strain test methods, bursting strength test, Tear strength.

Unit 6
12Hrs
Garment and garment accessories testing – testing of fusible interlinings, zippers, elastic waistband, sewing threads, buttons, snap fasteners, wear testing. Tensile properties of seams and stitches, zipper strength test, dimensional stability of fabrics. Colour fastness of garments to washing and light.

References

5. Saville, B.P. “Physical testing of Textiles”, Woodhead Publishing Ltd. 1999
### IV Semester
B.Sc. (Fashion and apparel Design)
TEXTILE AND APPAREL TESTING

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Fabric construction particulars: aerial weight, thickness, thread count, cover factor equipments to be used are GSM cutter &amp; Weighting balance, Beasley Balance, Pick Glass, Dissection Needle, Calculator and Fabric thickness tester.</td>
</tr>
<tr>
<td>2</td>
<td>Determining shrinkage of fabric using shrinkage tester.</td>
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<td>3</td>
<td>Determining fabric bending properties using stiffness tester</td>
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<td>4</td>
<td>Determinations of fabric drape using drape meter.</td>
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<td>5</td>
<td>Determining fabric tensile strength using tensile tester.</td>
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<td>6</td>
<td>Determining Fabric Abrasion using abrasion tester.</td>
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<td>7</td>
<td>Determining fabric crease recovery using crease recovery tester.</td>
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<tr>
<td>8</td>
<td>Determining fabric Pilling using pilling tester.</td>
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<tr>
<td>9</td>
<td>Determination of colour fastness to rubbing using crock meter.</td>
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<tr>
<td>10</td>
<td>Determination of colorfastness to washing using washing fastness tester.</td>
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<tr>
<td>11</td>
<td>Determination of colorfastness to light</td>
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<tr>
<td>12</td>
<td>Determination of garment accessories testing - Button, Snap pull test, zipper test, seam strength test.</td>
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</tbody>
</table>

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15
IV Semester
B.Sc. (Fashion and apparel Design)
APPAREL PRODUCTION

FAD405A
Total Hrs: 48  Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- To introduce various departments of an apparel industry
- To impart skills in apparel production in an Industrial set-up.

Unit 1  4 hrs
Introduction to Apparel production, Seams- types, end use, stitch dimension, performance as per ASTM standards.

Unit 2  4hrs
Sourcing- Introduction to fabric and accessory sourcing, its types.

Unit 3  8hrs
Sampling department- importance of sampling department, objectives, types of sample-prototype, fit sample, pp sample, size set, production sample, shipment sample. Introduction to Spec sheet and its importance, Technical design reading, Tech pack analysis& objective, creating tech pack.

Unit 4  6hrs
Cutting department: Machineries, fabric spreading, pattern laying, marker preparation, sorting, numbering & bundling, fusing department- methods of fusing, fusing machines

Unit 5  8 hrs
Production department: selection of production system- progressive bundle system, unit production system, modular manufacturing, piece work. Production planning, Linear manufacturing process.

Unit 6  6hrs
Finishing & pressing department, trimming department, packing department

Unit 7  4hrs
Apparel accessories & components - fasteners, labels, support materials, decorative trims, tapes & packing materials

Unit 8  4hrs
In process quality inspection, objectives methods, advantages, inspection methodology, final inspection, random inspection, general inspection method for shirts, trouser and kids garments.

Unit 9  4hrs
Introduction to export documentation, objectives, terminologies, principle documents, auxiliary documents, risk cover, insurance, ECGC, quality control and pre-shipment
inspection, export credit, short, medium, long term credit, packing credit, negotiation of bills, payment procedures in export trade.

**References:**
2. Harold Carr & Barbara Latham, the Technology of Clothing Manufacture, Oxford Pub. USA, 1994

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**IV Semester**
**B.Sc. (Fashion & Apparel Design)**
**APPAREL PRODUCTION**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Study of international stitch number and preparation of technical specification sheet, Analysis of spec sheet.</td>
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<tr>
<td>2</td>
<td>Stitching of jackets for Men’s / Women’s</td>
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<tr>
<td>3</td>
<td>Stitching of casual shirt Men’s / Women’s using block including development of illustration, flat sketches, technical drawing, spec sheet, component drawing, consumption &amp; calculation of fabric, trims and supporting materials, costing of the product.</td>
</tr>
<tr>
<td>4</td>
<td>Stitching of formal shirt Men’s / Women’s using block including development of illustration, flat sketches, technical drawing, spec sheet, component drawing, consumption &amp; calculation of fabric, trims and supporting materials, costing of the product</td>
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<tr>
<td>5</td>
<td>Stitching of trouser Men’s / Women’s using block including development of illustration, flat sketches, technical drawing, spec sheet, component drawing, consumption &amp; calculation of fabric, trims and supporting materials, costing of the product</td>
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<tr>
<td>6</td>
<td>Folio on all accessories &amp; components used in Apparel Industry.</td>
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</table>
V Semester
B.Sc. (Fashion and apparel Design)

FASHION RETAILING, MARKETING AND MERCHANDISING

FAD501
Total Hrs: 64
Exam Hours: 3
Exam Marks: 100
Internal Assessment: 50

Objectives:
- To acquaint students with various marketing and merchandising procedures
- To introduce students to fashion retailing.

Unit 1
5hrs
Introduction to Retail, Marketing, Management and Merchandising, terminologies

Unit 2
9 hrs
Fashion retailing-History, Scope, Importance, Types(Domestic and International), techniques, channel of distribution

Unit 3
9hrs
Marketing – types, four P’s, fashion promotion advantages, trade shows, Market weeks, exhibitions, fashion shows, market survey and research

Unit 4
6hrs
Types of merchandising, concepts, merchandise planning, sampling- Importance, counter sample.

Unit 5
5 hrs
Brand building-Introduction, strategies, image building, brand expansion, global trends

Unit 6
12 hrs
Visual Merchandising-Interior, exterior window display, store planning and layout-fixtures, location, lighting, dressing, props and promotions, masking and proscenia, mannequins and three dimensional dressing

Unit 7
6 hrs
Introduction to customer relationship management, measuring customer relationship management, customer response, satisfaction, loyalty, customer relation and complaint management.

Unit 8
12 hrs
Retail merchandiser, concept, quick response, Just –in-Time, merchandiser calendar, trend analysis, forecast analysis, concepts of apparel product line, planning, directing, coordinating and controlling

References
3. Gibson, G. Vedomani, Retail Management, Jaico Publishing House, Bangalore
V Semester
B.Sc. (Fashion and Apparel Design)
APPAREL COMPUTER AIDED DESIGN-I

FAD502A
Total Hrs: 48  
Exam Hours: 3  
Exam Marks: 70  
Internal Assessment: 30

Objectives
- To help students to understand the fundamentals and principles of CAD.
- To provide students with the knowledge of CAD and their applications.

Unit 1  6Hrs
CAD definition, Fundamentals of CAD – Introduction, general process of design, application of computers for design, Benefits of CAD, Computers & the Fashion Industry, Quick response technology, CAD in Today’s Fashion Industry

Unit 2  4Hrs
Hardware in CAD – Introduction, the design workstation, the graphics terminals, operator, input devices, plotters and other output devices, the central processing unit, secondary storage.

Unit 3  6Hrs
Computer Graphics Software and Data in Apparel Industry – Introduction, the software configuration of a graphics systems, functions of a graphics package, Database structure & content, Geometric modeling – 3D modeling, other CAD software feature.

Unit 4  6Hrs
Basic maintenance of operations – preference, setting up a document, what is resolution, saving files, file formats, zooming in & out, view options, CAD approach to design, vector graphics object VsRaster design.

Unit 5  4Hrs
Introduction to DBMS features of a DBMS, Advantages of using DBMS.

Unit 6  6Hrs
Photoshop & Corel Draw – Introduction, features and its applications.

Unit 7  8Hrs
Fashion trend forecasting websites – Introduction, leading online trend-analysis and research service on creative and business intelligence for the apparel, style, design and retail industries, insight and creative inspiration, real-time retail coverage, seasonal trend analysis, consumer research and business information.

Unit 8  4Hrs
CAD applications in fashion field – garment designing, weaving, knitting and embroidery and textile dyeing and printing

Unit 9  4Hrs


References:

V Semester
B.Sc. (Fashion & Apparel Design)
APPAREL COMPUTER AIDED DESIGN - I

Practicals
FAD502B
16 practicals of 3 hrs each

Instruction:
Following softwares are required for the practicals
- Fashion forecasts website
- Photoshop for collage work
- CorelDraw for Flat sketches.
- Fashion Studio for draping of garments
- Pattern making software for pattern making, grading and marker making.

Unit 1  2
Introduction to fashion trend forecasting websites, how to navigate the website, sourcing the computer about fashion trend forecasting

Unit 2  2
Introduction to Photoshop - Photoshop tools in detail, enhancing images, Masking, transforms, working with layers. Merging & blending layers, text effects.

Unit 3  2
Creating an advertising brochure. Painting & rendering in Photoshop, creating & manipulating Fashion Model drawings, gradient’s use for rendering & 3D effects, making collage in Photoshop, Applying filters

Unit 4  2
Create Mood / Inspiration, client / customer, colour and Texture board using Photoshop.

Unit 5  2
Introduction to Coral Draw. Learning basic tools of Coral Draw. Using Basic Shapes, Transformations, Duplicate, Cloning. Applying fill, outlines, special effects, shaping objects, creating custom Shapes using basic shapes and other drawing tool, working with the text,
Effects, Shaping object with envelope tool, Power Clip objects, splitting and erasing portion of objects.

**Unit 6**  2
Creating fashion accessories like necklace, bracelet, anklets, ear ring, and head gear. Etc Using Coral Draw.

**Unit 7**  2
Motifs development – Symmetrical/Asymmetrical, Balanced/Unbalanced, Repeat – ½ drop, ¼ drop, ¾ drop – H/V. Drop reverse, Design placements on boarders, pallu&allover

**Unit 8**  2
Logo Designing, Creating Tags & Labels – Main label, Size label, Wash Care label, Content label using Corel Draw
V Semester
B.Sc. (Fashion and apparel Design)
FASHION ACCESSORIES

FAD503A
Total Hrs: 48
Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
• To impart knowledge of fashion Accessories
• To provide opportunity and to design and to develop fashion accessories

Unit 1
4 Hrs.

Unit 2
6 Hrs.
Accessory types- Head gears, Foot wear, Bows, ties and belts, Hand bags, Gloves, Scarves, Stoles, Shawls,

Unit 3
6 Hrs.

Unit 4
8 Hrs.
Trends and Marketing- Fashion trends and marketing of accessories. Study of any 2 accessory designers. (one Indian and one international)

Unit 5
9 Hrs.

Unit 6
4 Hrs.
Gemology- Introduction to gems, Basic qualities of gems and healing properties of gems.

Reference:
V Semester  
B.Sc. (Fashion and Apparel Design)  
FASHION ACCESSORIES

Practicals  
FAD503B  
16 practicals of 3 hrs each  

Exam- 3 hours  
Exam- 35 marks  
Internal Assessment- 15

Unit – 1  
4  
Sketching and rendering of headgear, hand wear, foot wear and hand bags (3 each). Construction of any one.

Unit – 2  
4  
Sketching and rendering of belts, gloves and construction of any one.

Unit – 3  
4  
Sketching of Indian jewellery- Mughal Jewellery, Thewa, Kundan Jewellery, Temple Jewellery

Unit – 4  
2  
Sketching of accessories on women and men's croqui (2 each)

Unit – 5  
2  
Jewellery designing based on theme. (with Concept Board)
V Semester
B.Sc. (Fashion and Apparel Design)

DRAPING

FAD504A
Total Hrs: 48

Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives
To introduce the Basic Draping techniques
To familiarize students with Draping methods for different kinds of garments

Unit 1
Introduction to draping, Tools & equipments used in draping

6 Hrs

Unit 2
Draping Terminology – Apex, Balance, Plumb line, Trueing, Blocking, Blending, Princess line, Clipping and marking.

6 Hrs

Unit 3
Draping- Principles of Draping, Fitting methods

10 Hrs

Unit 4
Basic Draping Techniques- Bodice Front, Bodice Back, basic skirt, Dart Manipulation Techniques

12 Hrs

Unit 5
Draping Techniques- Dresses-Bias, Princess line, neckline -Cowl, collar- mandarin, peterpan, Sleeves, Yokes –shoulder, midriff, hip line.

14 Hrs

References
1. Abling, Bina and Maggio, Kathleen, Integrating draping, drafting and drawing, Fairchild Books, Inc.
3. Jaffe, Hilde and Relis, Nurie, Draping for fashion design, Pearson Prentice Hall

Practicals

V Semester
B.Sc. (Fashion and apparel Design)

DRAPING

FAD504B

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15

16 practicals of 3 hrs each

Unit 1
Introduction to Draping

2

Unit 2
Tools & Equipments used in Draping

2
Unit 3
Basic Draping methods – Bodice Front & Back, Skirt Front & Back

Unit 4
Draping – Sleeves, Collars, cowls, Yokes, fullness.

Unit 5
Draping Dresses – The Straight Shift, Princess Dress.

Unit 6
Development of basic choli and converting the same in to garment. Draping of designer choli and evening gown, 3D draping.
V Semester
B.Sc. (Fashion and Apparel Design)
NEEDLE CRAFT

FAD505A
Total Hrs: 48  Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- To impart knowledge on various traditional embroideries of India
- To gain practical knowledge on different embroideries of India.

Unit 1
Introduction to Needle Craft, tools and materials used in needle craft 2 Hrs

Unit 2
Embroidery – Definition, Classification, Methods & Implementation of basic embroidery stitch – Straight stitch-Stem, Back, fly stitch; Flat stitch-Satin, Cross; Loop stitch – Herring Bone, Feather stitch; Knotted stitch-French knot, Bullion Knot. 6 hrs

Unit 3
Basic hand stitches- Techniques used, Application of basting, running, tacking, hand overcast, buttonhole, hemming stitches. 6 hrs

Unit 4
Crochet – Introduction, Definition, tools, material, techniques, types of Single crochet, double crochet, treble pattern 6hrs

Unit 5
Knitting – Definition, Tools & materials used for Knitting, Techniques employed in knitting, Terminologies, Features & Applications of Elementary stitches (Garter, Stocking, Rib, and Moss), Texture, Rib, Diagonal, Lace pattern, Cable pattern, Cross, Knotted. 10hrs

Unit 6
Definition, types, Implementation of Patch work, Appliqué, Quilting- tools, material & techniques 8 hrs

Unit 7
Special techniques-Introduction, Methods, Types & Application of Braiding, Hooking, Smocking, Macrame Knotting, Bead & Sequins 8 hrs

Unit 8
Present trend embroideries – Aari work, Zardhosi, cutwork etc. 2 hrs

References
5. Shailaja Naik, "Traditional Embroideries Of India", APH Publishing corporation, New Delhi, 1996

V Semester
B.Sc. (Fashion and Apparel Design)
NEEDLE CRAFT

<table>
<thead>
<tr>
<th>Practical</th>
<th>Exam</th>
<th>Internal Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAD 505 B</td>
<td>3 hours</td>
<td>15</td>
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<tr>
<td>16 practicals of 3 hrs each</td>
<td>35 marks</td>
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</tr>
</tbody>
</table>

Unit 1
Introduction to Needle craft, tools and equipments used in needle craft

Unit 2
Embroidery – Basic embroidery stitch – Straight stitch-Stem, Back, fly stitch; Flat stitch-Satin, Cross; Loop stitch – Herring Bone, Feather stitch; Knotted stitch-French knot, Bullion Knot, pearl stitch, weaving – spider web, any one basic machine embroidery.

Unit 3
Crochet – Single, Double & Treble

Unit 4
Knitting – Basic- purl, Knit, Garter, Stocking, Rib

Unit 5

Unit 6
Present trend embroideries – Aari work, Zardhosi, cutwork etc.
IN-HOUSE TRAINING

FAD506
Hrs / Week: 6

Exam Marks: 100
Internal Assessment: 50

Objectives
- To impart knowledge on working of apparel industry
- To gain practical knowledge on different departments of apparel industry

Internship Training/ Craft Documentation

Internship with any garment based industry or company for a minimum period of 30 days. A report to be submitted for evaluation.

Craft Documentation
Objectives
- In depth knowledge of Textiles and handicrafts.
- To learn research and documentation of various Indian crafts by visiting and meeting the craftsman and artisans personally.

Documentation should contain the following
- Introduction
- Aim
- Objectives
- Hypothesis
- Procedure
- Design
- Pictures of crafts
- Questionnaire for survey/ information collection.
- Results and discussion
- Summary and conclusion
- Bibliography
VI Semester
B.Sc. (Fashion and apparel Design)
ENTREPRENEURSHIP DEVELOPMENT

FAD601
Total Hrs: 64
Exam Hours: 3
Exam Marks: 100
Internal Assessment: 50

Objectives
- To develop entrepreneurship skills among the students. To familiarize the students with the process and procedure of setting up new enterprises.

Unit 1
10hrs
Introduction to entrepreneurship, development of entrepreneurship, role of entrepreneurs in development of apparel and fashion industry, entrepreneurship with reference to fashion and apparel industry in India.

Unit 2
10hrs
Entrepreneurial support by state, central financial institutions, organizations. Government policies with reference to textile and apparel industry.

Unit 3
10hrs
Business planning- Starting a new venture related to apparel industry, essentials of a successful centre. Formalities of opening a firm, the status of firm, Individual proprietor/partnership/ Pvt. limited company & public Ltd company, bank formalities, term loan, working capital, project financing.

Unit 4
14hrs
Location & plant layout-factors influencing plant location, building, structure, lighting, Ventilation, material handling, availability of labour, material management and transportation. Plant layout, ergonomics safety & security to be considered while planning the layout.

Unit 5
14 hrs
Industrial sickness and remedies, tax planning, VAT, Patent Rules, Factory Act, Minimum wages, knowledge of exemptions & deductions.

Unit 6
6hrs
Environmental considerations and social responsibilities.

References
3. Terry & Franklin, Principles of Management, AITBS, 2002
VI Semester
B.Sc. (Fashion and Apparel Design)
APPAREL COMPUTER AIDED DESIGN - II

FAD602A
Total Hrs: 48
Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives
- To help students to understand the fundamentals and principles of CAD/CAM/CIM.
- To provide students with the knowledge of CAD/CAM/CIM and their applications.

Unit – 1  10Hrs

Unit – 2  8Hrs

Unit – 3  8Hrs
Computer aided process planning (CAPP) – Retrieval type & Generative type of CAPP systems and benefits of CAPP.

Unit – 4  8Hrs

Unit – 5  4Hrs
CAQ (Computer Aided Quality Control) – Introduction, Terminologies, Inspection methods – Contact and Non – Contact inspection methods with examples and its uses.

Unit – 6  10Hrs
Applications – Fabric lay Planning, computerized cutting, sorting and Labelling, Bundling, Fabric pattern designing, modification for size & fit, Pattern Making (PDS), grading and Marker making, marker efficiency using pattern making software. Future of CAD/CAM.

References:
4. Veinsinet DO. Computer Aided Drafting & Design-Concept & Application, 1.987
5. Winfred Aldrich, CAD in Clothing & Textiles, Blackwell science, 1994
Practicals  
FAD602B  
16 practicals of 3 hrs each  
Exam - 3 hours  
Exam - 35 marks  
Internal Assessment - 15

Instruction:
Following softwares are required for the practicals
- Fashion forecasts website
- Photoshop for collage work
- CorelDraw for Flat sketches.
- Fashion Studio for draping of garments
- Pattern making software for pattern making, grading and marker making.
- Visual Merchandising Software

Unit – 1  
Developing Croqui figures for men, women and children using Photoshop/ Corel Draw.

Unit – 2  
Draping of garments on men’s, women’s & children casual, party, night, sports, office/formal wears using Fashion Studio software / Photoshop / Corel Draw.

Unit – 3  
Design flat sketches along with stitch specification for the following:  
Children – Girls (A-line & yoke frock), Boys (shirt & shorts)  
Adults – Women’s (Top, Skirt, gown), Men’s (Shirt, Kurtha, Trouser).  
For the above create spec sheets, cost sheets for each garment using Fashion Studio software / Photoshop / Corel Draw.

Unit – 4  
PDS – Introduction, pattern for digitizing, Getting started in Pattern Design – Introduction to PDS (pattern design screen), File menu, Opening and saving, Managing Pieces on the screen, measure, Edit and View functions. Point & Notch Functions, line functions, Piece functions.

Unit – 5  
Prepare Patterns - A-Line Frock, Skirt, Shirt, Dress / Top, Shorts and Trousers

Unit – 6  
Introduction to grading. Grade the above patterns. Marker Making. Make marker plan for women’s Top/Skirt/ Men’s Shirt/Trouser/Kurtha.

Unit – 7  
Window display products / commodities for a retail shop using VM software
VI Semester  
B.Sc. (Fashion and apparel Design)  
GARMENT SURFACE ORNAMENTATION

FAD603A  
Exam Hours: 3  
Exam Marks: 70  
Internal Assessment: 30  
Total Hrs: 48

Objectives
- To impart knowledge on various traditional embroideries of India
- To gain practical knowledge on different embroideries of India.

Unit 1:  
Introduction to Traditional embroideries  
5 Hrs

Unit 2  
Traditional Indian embroidery- History, types, Symbolism of embroidery of different states of India –Kutch, Kathiawar, Sindh, Phulkari, Kantha, Kashida - Material, motifs, symbolism, colour, stitches, technique, relevance.  
12hrs

Unit 3  
Traditional Indian embroidery- History, types, Kasuthi, Chambarumal, Zardozi, Chikankari, - Material, motifs, symbolism, colour, stitches, technique, relevance  
14hrs

Unit 4  
14hrs

Unit 5  
Western Embroidery – Introduction, types – Bargello and Persian embroidery.  
3 hrs

References
2. Savithri Pandit: Indian Embroidery 1999  
5. Shrikant, Usha, Designs for a lifetime, Honesty publishers and Distributors, Mumbai.2010  
<table>
<thead>
<tr>
<th>Unit</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit 1</strong></td>
<td>Introduction to traditional Indian Embroideries</td>
</tr>
<tr>
<td><strong>Unit 2</strong></td>
<td>Traditional Indian embroidery – Kutch, Kathiwar, Sindh, Phulkari, Kantha, Kashida</td>
</tr>
<tr>
<td><strong>Unit 3</strong></td>
<td>Indian embroidery - Kasuthi, Chambarumal, Zardozi, Chikankari</td>
</tr>
<tr>
<td><strong>Unit 4</strong></td>
<td>Tribal Embroidery- Introduction, Types – Nagaland, Manipuri, Lambadi, Thoda</td>
</tr>
<tr>
<td><strong>Unit 5</strong></td>
<td>Western Embroidery – Bargello work</td>
</tr>
</tbody>
</table>
VI Semester  
B.Sc. (Fashion and Apparel Design)  
APPAREL QUALITY MANAGEMENT

FAD604A
Total Hrs: 48

Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- To acquaint students with the Apparel Total Quality Management by understanding different quality Assurance practices.

Unit 1 4Hrs
Definition of Quality, Dimensions of quality, quality planning, and importance of quality.

Unit 2 8Hrs
TQM principles: Customer satisfaction, customer perception of quality, Intrinsic & Extrinsic quality, service quality, customer retention, continuous process improvement, Juran Triology, PDSA cycle, 5S, Kaizen, 6 sigma.

Unit 3 6Hrs
Managing quality: Traditional vs Modern quality management, Quality control (QC), objectives of QC and inspection, Quality Assurance (QA), QA system,

Unit 4 6Hrs
Importance of Quality control in Garment industry, Fabric inspection, identification of woven and processing defects, 4 point & 10 point system, IPQC, AQL standards

Unit 5 6Hrs
Major inspection points to be verified in a final inspection for Men’s Shirt & Trouser, Ladies Top, Trouser, Skirt and Kids Garment.

Unit 6 4Hrs
Care labels, International care labeling system, Japan/ Canada/ British care labeling system, Eco labels.

Unit 7 10hrs
Quality system;

Unit 8 4Hrs
Zero defects, JIT, Poka-yoke, and quality circle.

References:
VI Semester
B.Sc. (Fashion and Apparel Design)
APPAREL QUALITY MANAGEMENT

Practicals
FAD604B
16 practicals of 3 hrs each

Exam- 3 hours
Exam- 35 marks
Internal Assessment- 15

Unit 1
Fabric inspection (4& 10 points systems)

Unit 2
Designing and Inspection of Apparel care labels, contents, Dimensions and positioning of the labels.

Unit 3
Final Inspection of Garments. Checking points and methods of checking of Men’s Shirt, Trouser, Ladies Top, Trouser and Kids garment

Unit 4
Preparation of specification sheets for Men’s, Women and Kids wear.

Note: The Final Inspection checking points as listed below for Men’s shirt, similarly the check list to be prepared for women wear and kids wear for practicing by the students.

Shirt Inspection Check list:

<table>
<thead>
<tr>
<th>No</th>
<th>Location</th>
<th>Inspect For</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Collar</td>
<td>Both points are same or not, stripe or checks is matched accurately, stitch, collar flat or not, interlining, bubble presence, collar stick placement.</td>
</tr>
<tr>
<td>2</td>
<td>Size</td>
<td>Size label is in correct place, and every part size is correct or not. Size as per the measurement chart, allowances etc.</td>
</tr>
<tr>
<td>3</td>
<td>Button &amp; Button hole</td>
<td>Placed in right place or not, evenness of the gap between the buttons, Button stitches, finishing, matching, &amp; to make sure button is not broken. Placement of spare button as per specification.</td>
</tr>
<tr>
<td>4</td>
<td>Pocket</td>
<td>Pocket upper edge is horizontal or not, pocket position, size, stitch, stripe or check match, flat or not.</td>
</tr>
<tr>
<td>5</td>
<td>Hem</td>
<td>Stitch, puckering, edge free from stitch.</td>
</tr>
<tr>
<td>6</td>
<td>Yoke &amp; shoulder</td>
<td>Stitch, puckering, DNLS, matching of stripe or checks.</td>
</tr>
<tr>
<td>7</td>
<td>Side seam</td>
<td>Pattern matching, stitch, free from raw edge, puckering, straight stitch,</td>
</tr>
<tr>
<td>8</td>
<td>Cuffs</td>
<td>Stripes or checks matching, top stitch, flat or not., size of the cuff</td>
</tr>
<tr>
<td>9</td>
<td>Finished appearance</td>
<td>Trimming of edges and threads, oil marks, dirt, finger marks broken needle, stitch missing, fabric fault, colour matching, balancing of different components.</td>
</tr>
<tr>
<td>10</td>
<td>Buyers specifications</td>
<td>If the Buyer or the importer has given a separate checklist for the inspection, the inspection to be carried out to verify the sample from the bulk selected is matching to the requirement or not.</td>
</tr>
</tbody>
</table>
VI Semester
B.Sc. (Fashion and Apparel Design)
CLOTHING CULTURE AND COMMUNICATION

FAD605A
Total Hrs: 48

Exam Hours: 3
Exam Marks: 70
Internal Assessment: 30

Objectives:
- To create awareness about clothing culture
- To impart knowledge of clothing communication and fashion expression

Unit 1
Understanding clothing and Clothing culture.

Unit 2
Individual & dress, personal communication, personal expression, image building, psychological and sociological influence on clothing.

Unit 3
Clothing culture and communication, men and women clothing groups, role and status of clothing.

Unit 4
Clothing culture and communication based on conservative, labor, liberal, social, democrat, customs and marital status.

Unit 5
Individual and dress, personal communication, personal expression, image building. Psychological and sociological influence on clothing.

Unit 6
Fashion, fashion concepts, differences of fashion and non-fashion, recurring cycles of fashion, styles and fashion.

Unit 7
corset culture, fashion in 20th century. Women at war, between war and post war. Equality between men and women, sexual revolution, marriage and family, education and employment. Evolution of different types of costumes.

Unit 8
Minis, maxis, unisex, fit woman, glamorous woman, casual and formal clothing. Fashion for all ready to wear fashion, mass marketing of fashion.

Unit 9
Youth style and fashion, teddy boy, skins, mods, hippies, punks, taste of youth and their life style.

Reference
4. Wilcox, T The dictionary of costume, Batsford Ltd., UK.
VI Semester
B.Sc. (Fashion and Apparel Design)
CLOTHING CULTURE AND COMMUNICATION

Practicals
FAD605B  Exam- 3 hours
16 practicals of 3 hrs each  Exam- 35 marks
Internal Assessment- 15

Unit 1:  
Sketch a protective clothing for men/ women using flat sketch with spec sheet.

Unit 2:  
Sketch clothing of royalty/ status symbol to depict modesty for men/ women using 10 head croqui.

Unit 3:  
Sketch men and women clothing of any custom of the world using 10 head croqui.

Unit 4:  
Sketch clothing that communicate their profession for men or women using 10 head croqui.

Unit 5:  
Sketch different types of corset during the Victorian era.
VI Semester  
B.Sc. (Fashion and Apparel Design)  
FASHION PORTFOLIO & DESIGN COLLECTION  

FAD606A  
Total Hrs: 48  

Exam Hours: 3  
Exam Marks: 70  
Internal Assessment: 30

Objectives:-  
- To make students understand the importance and significance of portfolios and presentations  
- To impart practical skills for portfolio presentations.

Unit 1  
6 Hrs  
Portfolio preparation, Definition, types and importance,  
Contents of portfolio, Different portfolio presentation skills and Material management

Unit 2  
6 Hrs  
Fashion Forecasting and colour Forecasting, Use of online service for forecasting

Unit 3  
6 Hrs  
Clothing categories, styling, price and size ranges for men’s wear, styling, price and size ranges for women’s and styling, price and size ranges for kids wear

Unit 4  
4 Hrs  
Technical Details, Working Drawings, development of spec, flat sketch and costing

Unit 5  
16 Hrs  
Choosing forecast, Mood Board, client board and Colour board, Swatch Board, Illustrations and Flat sketches Production of Spec sheet and costing, Development of Logo, Hang tags, concept board

Unit 6  
6 Hrs  
Fashion Photography. Knowledge of different lighting – indoor and outdoor, aperture, speed and locations used in fashion photography. Study the work of well known fashion photographers

Unit 7  
4 Hrs  
Fashion dressing – makeup- indoor, outdoor, hairstyle, Self grooming- Introduction, importance and application.

References-  
1. Drake/ Spoone/Greenwald “Retail fashion Promotion and Advertising”  
2. Gini Stephens Frings “ Fashion- from concept to consumer” Pearson Education  
4. Jerligan Easterling “Fashion Merchandising And Marketing´ Pearson Education  
5. Polly Guerin “ Creative fashion Presentations” Fairchild Publications
**VI Semester**  
**B.Sc. (Fashion and apparel Design)**  
**FASHION PORTFOLIO & DESIGN COLLECTION**

<table>
<thead>
<tr>
<th>Practical</th>
<th>Exam- 3 hours</th>
<th>Exam- 35 marks</th>
<th>Internal Assessment- 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAD606B</td>
<td></td>
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</tr>
<tr>
<td>16 practicals of 3 hrs each</td>
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</tbody>
</table>

**Unit 1**  
10hrs  
An individual Portfolio presentation based on a theme  
   a. It should have min 2 collections of 5 ensembles each (4 wearable, 1 non wearable)  
   b. Portfolio should include development of Story board, Mood board, Colour board, Texture board, Swatch Board, Logo, Working drawing- costing, spec sheet, development of garments by drafting, draping and Flat Pattern  
   c. Produce one collection from the portfolio and to be presented as fashion show.

**Unit 2**  
6hrs  
Preparation of Concept boards for four seasons of three ensembles each.