# BANGALORE UNIVERSITY 

REGULATIONS GOVERNING<br>THE BACHELORS DEGREE COURSE<br>IN

FASHION AND APPAREL DESIGN

## BANGALORE UNIVERSITY

## REGULATIONS GOVERNING THE BACHELORS DEGREE COURSE IN FASHION AND APPAREL DESIGN

1. TITLE OF THE DEGREE: The degree shall be called Bachelor of Science in Fashion \& Apparel Design (B.Sc. FAD).
2. ELIGIBILITY FOR ADMISSION:
a. A candidate seeking admission to first year B.Sc. Degree in Fashion \& Apparel Design shall have passed the pre-university examination of pre-university Board of Karnataka or any other examination considered as equivalent with an aggregate of $35 \%$ and above marks.
b. Candidates with three years Diploma in Textile Technology / Costumes \& Fashion Design or any other three years diploma considered as equivalent and recognized by the state / central government shall be eligible for admission to the III Semester of B.Sc. Fashion \& Apparel Design course.
3. DURATION OF THE DEGREE COURSE: The duration of study for B.Sc. Degree in Fashion \& Apparel Design shall be three academic years comprising six semesters.
4. MEDIUM OF INSTRUCTION: Medium of instruction and examination in all the optional subjects shall be English.
5. ATTTENDANCE: A candidate shall be permitted to appear for the University examination only if he / she puts in attendance as per University regulations.
6. DURATION TO COMPLETE THE COURSE: A candidate who fails to complete the course within a period of three years shall complete the same within the six years from the date of joining the course.
7. SCHEME OF INSTRUCTION AND EXAMINATION: Appended herewith.
8. INTERNAL ASSESSMENT:
a. Internal assessment marks shall be based on tests, attendance, assignments, and presentations conducted during each semester.
b. The marks of internal assessment for each subject shall be communicated to the University atleast 15 days before the commencement of examination and the Registrar (Evaluation) shall have access to the records of such periodical assessment. It must be published on the notice boards of the colleges for the information of students.
9. ASSESSEMENT OF PROJECT WORK: A project shall be undertaken by each candidate after the V Semester under the supervision of a qualified staff and a report
shall be submitted to the University before the commencement of VI Semester examinations. The University shall evaluate the projects for 80 marks and conduct vivavoce for 20 marks.
10. MINIMUM FOR A PASS: No candidate shall be declared to have passed the examination unless he/she obtains not less than
a. $35 \%$ marks in written examination and $40 \%$ marks in aggregate of written examination and internal assessment put together.
b. $40 \%$ marks in practical examination.
c. $40 \%$ marks in project.
A. SUCCESSFUL CANDIDATES SHALL BE CLASSIFIED AS FOLLOWS:
a. $60 \%$ and above - First class
b. $50 \%$ and above but less than $60 \%$ - Second class
c. $35 \%$ and above but less than $50 \%$ - Pass class
B. CLASS AND RANK:
a. For obtaining class, marks obtained in all the semesters shall be considered
b. For ranking, only those candidates who have passed in all the semesters in the first attempt shall be considered.
C. CARRYOVER PROVISION: A candidate shall be allowed to carryover the subjects as per the University regulations for regular degree courses.
11. REPITITION OF SEMESTER: A candidate is permitted to repeat the semester in the next academic year if he/she has shortage of attendance in that semester.

Sd/-
Chairman-BOS
B.Sc. Fashion \& Apparel Design

## B.Sc. FASHION \& APPAREL DESIGN

I SEMESTER
SCHEME OF INSTRUCTION AND EXAMINATION

|  | Subject | Theory |  |  |  | Practicals |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Paper Code |  | $\begin{aligned} & \text { 票 } \\ & 0 . \\ & 0.0 \\ & 0.3 \end{aligned}$ |  |  |  |  |  |  |  |
| FAD 101 | Language I | 4 | 90 | 10 | 3 | - | - | - | 100 |
| FAD 102 | Language II | 4 | 90 | 10 | 3 | - | - | - | 100 |
| FAD 103A | Fiber \& Yarn Science | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 103B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 104A | Elements of Design and fashion | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 104B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 105A | Basics of Pattern Making \& Sewing | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 105B |  |  |  |  |  | 3 | 30 | 3 |  |
|  |  |  |  |  |  | TOTAL |  |  | 500 |

## II SEMESTER

SCHEME OF INSTRUCTION AND EXAMINATION

|  | Subject | Theory |  |  |  | Practicals |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Paper Code |  |  |  |  |  |  |  |  |  |
| FAD 201 | Language -I | 4 | 90 | 10 | 3 | - | - |  | 100 |
| FAD 202 | Language -II | 4 | 90 | 10 | 3 | - | - |  | 100 |
| FAD 203A | Fabric Analysis | 3 | 60 | 10 | 3 |  |  |  |  |
| FAD 203B |  |  |  |  |  | 3 | 30 | 3 | 100 |
| FAD 204A | Basics of Garment Construction | 3 | 60 | 10 | 3 |  |  |  |  |
| FAD 204B |  |  |  |  |  | 3 | 30 | 3 | 100 |
| ADL 2S1 | Computer Fundamentals | 4 | 100 | - | 3 | - | - | - | 100 |
|  |  |  |  |  |  | TOTAL |  |  | 500 |

## III SEMESTER

SCHEME OF INSTRUCTION AND EXAMINATION

| Paper Code | Subject | Theory |  |  |  | Practicals |  |  | $\begin{array}{\|l\|l} \frac{0}{5} \\ \frac{5}{5} \\ \frac{5}{2} \\ \stackrel{5}{6} \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
| FAD 301 | Language I | 4 | 90 | 10 | 3 | - | - | - | 100 |
| FAD 302 | Language II | 4 | 90 | 10 | 3 | - | - | - | 100 |
| FAD 303A | Fashion Art Design | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 303B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 304A | Pattern Making \& Clothing Construction | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 304B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 305A | Wet Processing | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 305B |  |  |  |  |  | 3 | 30 | 3 |  |
|  | Indian Constitution | 4 | 100 | - | 3 | - | - | - | 100 |
|  |  |  |  |  |  | TOTAL |  |  | 600 |

IV SEMESTER

## SCHEME OF INSTRUCTION AND EXAMINATION

| Paper Code | Subject | Theory |  |  |  | Practicals |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
| FAD 401 | Language I | 4 | 90 | 10 | 3 | - | - | - | 100 |
| FAD 402 | Language II | 4 | 90 | 10 | 3 | - | - | - | 100 |
| FAD 403A | Traditional Textile Art | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 403B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 404A | Historic Costumes | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 404B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 405 | Entrepreneurship Development | 4 | 90 | 10 | 3 | - | - | - | 100 |
| SESS41 | Environmental Studies | 4 | 100 | - | 3 | - | - | - | 100 |
|  |  |  |  |  |  |  | TOTAL |  | 600 |

## V SEMESTER

SCHEME OF INSTRUCTION AND EXAMINATION


## VI SEMESTER

## SCHEME OF INSTRUCTION AND EXAMINATION

| Paper Code | Subject | Theory |  |  |  | Practicals |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
| FAD 601A | Apparel Quality <br> Assurance | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 601B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 602A | Portfolio Presentation | 3 | 60 | 10 | 3 |  |  |  | 100 |
| FAD 602B |  |  |  |  |  | 3 | 30 | 3 |  |
| FAD 603 | Non Woven \& Technical Textiles | 4 | 90 | 10 | 3 | - | - | - | 100 |
| FAD 604 | Apparel Export Documentation | 4 | 90 | 10 | 3 |  |  |  | 100 |
| FAD 605 | Shop Floor Management | 4 | 90 | 10 | 3 |  |  |  | 100 |
| FAD 606 | Project |  | 80+20 | (80 ma project evaluat 20 mar viva vo | KS- <br>  <br> s for <br> e) |  |  |  | 100 |
|  |  |  |  |  |  | TOTAL |  |  | 600 |

## I SEMESTER <br> FIBRE AND YARN SCIENCE

## Theory

FAD103A
Total no. of hours - 48

## 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

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

## Unit 2

6 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 3

8 hrs
Cellulose fibers-Cotton, flax, kapok, hemp, ramie- Properties and end uses
Protein fibers-Silk, Wool - Properties and end uses

## Unit 4

4 hrs
Regenerated cellulose fibers- Viscose Rayon, Acetate Rayon, Tencel- properties and end uses.

## Unit 5

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

## Unit 6

10 hrs
Spinning process for staple fibers (cotton and wool), Ring spinning and rotar spinning, carded and combed yarns, woolen and worsted yarns

## Unit 7

6 hrs
Texturisation - types (simplex and complex yarns) and uses.
Blends- types, uses of blended fabrics.
Unit 8
2 hrs
Sewing threads- Types and properties.

## References

1. E.P.G. Gohl, L. D. Velensky, "Textile Science" CBS Publishers and Distributors, 2003

2 A.J. Hall. "The standard hand book of Textiles", Wood head Publishing $8^{\text {th }}$ edition 2004
3. P.V. Vidyasagar, "Hand Book of Textiles", A. Mittal Publications, 2005
4. Sara J. Kadolph, "Textiles", Prentice Hall, $10^{\text {th }}$ edition 2007
5. J. Gordon Cook, "Hand Book of Textile Fibres", Vol- II Man Made Fibers, Wood Head Publishing.
6. Bernard P. Corbman, "Textiles Fiber to Fabric" McGrawhill Publications, $6{ }^{\text {th }}$ Edition 1983
7. Gilbert R. Merrill, "Cotton Opening and Picking" Universal Publishing Corporation, 1999
8. Gilbert R. Merrill, "Cotton Combing" Universal Publishing Corporation, 1999
9. Gilbert R. Merrill, "Cotton Ring Spinning" Universal Publishing Corporation, 1999
10. Gilbert R. Merrill, "Cotton Drawing and Roving" Universal Publishing Corporation, 1999
11. S.P. Mishra, "A text Book of Fibre Science \& Technology," New Age International Ltd.

## FIBRE AND YARN SCIENCE

## Practicals <br> FAD103B

## 16 practicals of 3 hrs each

## Unit 1

Identification of Textile fibres- Microscopic appearance (longitudinal and cross-sectional) and burning tests.
Solubility tests for fibres- Cellulosic, Protein and Synthetic.

## Unit 2

Visual identification of spun, filament, cords, cable and fancy yarns.

## Unit 3

Fibre blend analysis
Unit 4
4
Line sketches of conventional spinning - Cotton and wool

## ELEMENTS OF DESIGN AND FASHION

## Theory <br> FAD: 104A

## Objectives

To enable students to gain knowledge of design, textile design and fashion
To understand the fashion design concept and process.
Unit: 1 6 Hrs
Design: Elements and principles of Design-Definition, importance and application.

## Unit 2

6 Hrs
Colour: Prang colours, Pantone colours, colour wheel, values scale, grey scale, colour schemes, its importance and application.

## Unit: 3

6 Hrs
Design and Textile: Various types of textile design and their features, function and application-Woven, Knitted and printed design.

## Unit: 4

8 Hrs
Design and Fashion: Textile and garment designers and their importance and activities. Professional practice of design.
Unit: 5 8 Hrs
Elements of Fashion process: Fashion origin, evolution- with examples from different eras till French revolution. Fashion cycles. Fashion theories and terminologies.

## Unit: 6

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

Unit 7
6 Hrs
Art appreciation: study of art history from 90's till date. Study of different artists and their technique

## References:

1. Piper, David, "The Joy of Art", - Mitchell Beazley Publishers, 1984.
2. Stanyer, Peter, "The Complete Book of Drawing Techniques" - Arcturus Publishing Limited for Book Mart Limited 2003
3. Edith Tomory, "A History of Fine Arts in India and the West" - Orient Longman Publishers 1982, reprinted 1999.
4. Hideaki Chijiiwa, Colour harmony- "A Guide to creative colour Combination".
5. Helln Goworek, "Drawing Course a step by step Guide" Blackwell Publications.
6. HW. Janson \& Anthony Janson, "History of art" the western tradition, revised $6^{\text {th }}$ edition, Upper saddle river
7. Roy C. Craven, "Indian Art", Thames \& Hudson.

## ELEMENTS OF DESIGN AND FASHION

## Practicals <br> FAD 104 B

## 16 practical of 3 Hrs each

Unit: 1
Introduction to art media and its applications. Free hand sketching technique, cross-hatching, criss cross, scribbling, stripling

## Unit: 2

Perspective drawing and rendering objects using different art media- wet and dry of objects, natural and human figures. Effect of light.

## Unit: 3

02
Elements and principles of design-Colour schemes, colour wheel grey scale, value scale.
Unit: 4
Drawing and colouring of Motifs -Natural, Stylised, Geometric and Abstract.
Unit: 5 02
Design manipulation Enlarging, reduction and various types of design layouts.
Unit: 6
Colour rendering of fabric swatches-Woven, knitted, and printed.

## Unit: 7

02
Fashion illustration: Basic sketching of $6,8,10$ head figures -stick, block and flesh figure of child, female and male.

## BASICS OF PATTERN MAKING \& SEWING

## Theory

Total no of Hours: 48
FAD 105A
Objectives:
To impart skills in basic techniques of pattern making
To provide the knowledge of different machines used for sewing.

## Unit 1

## 8 hrs

Introduction to pattern making \& clothing construction. Terminology- notches, grain, grain line, construction lines, perforations, center front line, center back line, bias, true bias, bust line, waist line, seat line, seam, seam allowance, jog seams, darts, dart points, direction of dart excess, dart shape at pattern edge.

Unit 2

## 8 hrs

Tools for pattern making and clothing construction- measuring tools, marking tools, cutting tools, sewing tools, pressing tools, different weights of paper, different types of needles, different types of threads,

## Unit 3

8 hrs
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, sizing-zero to plus size.

## Unit 4

8 hrs
Pattern Making - drafting, draping, flat pattern techniques - principles, advantages \& disadvantages. Flat pattern techniques- pivot, slash \& spread method

Unit 5
6 hrs
Commercial patterns - definition, importance, advantages, disadvantages and understanding of their sizes, interpretation of the commercial patterns

## Unit 6

10 hrs
Introduction to sewing machines, history of sewing machines, Single needle machine, Double needle machine - overlock machine, button hole machine, button fixing machine - their suitability and function, commonly use and special attachments used in sewing machine.

## References

1. Helen J Armstrong, Pattern Making for Fashion Design, Prentice Hall
2. Harold Carr \& Barbara Latham, The Technology of Clothing Manufacture, Oxford Pub., USA, 1994
3. Gerry Cooklin, Introduction to Clothing Manufacture, Blackwell Science, UK, 1991
4. Metric Pattern cutting \& Grading by Winfred Aldrich.

## BASICS OF PATTERN MAKING \& SEWING

## Practical

16 practicals of 3 hrs each
FAD 105 B

## Unit 1

02
Sewing machine- different kinds-functions-uses-attachment-practice on paper, stitching on fabric (straight, curves \& corners)

Unit 2
Body ideals- size charts- infant, children, men, women (standard measurement)

## Unit 3

Drafting of master slopers using standard measurement-Infant (1 age group), Children- pre schooler 2-6 years (1 age group), Women (medium size), Men (medium size)

## Unit 4

Preparation of muslin blocks
Unit 5
Flat pattern techniques and its application- pivot \& slash spread (single dart series, two' double dart series, radiating, graduating, parallel and conversion of darts to tucks, pleats, gathers, seams)

## II SEMESTER <br> FABRIC ANALYSIS

## Theory

FAD203 A

## Objectives:

To impart knowledge of fabric manufacture and fabric characteristics
To enable students to understand fabric structures and to analyse them.

## Unit 1 4 hrs

Fabric making- Introduction, basics of different methods of fabric formation (weaving, knitting and non woven).

## Unit 2

6 hrs
Loom- Parts and functions of a loom (primary and secondary motions), warping and pirn winding, Sizing.

## Unit 3

4 hrs
Types of looms- Handloom/Power loom, Shuttle loom/ Shuttle less looms (Projectile, Rapier, Water jet and Air jet looms.
General characteristics of woven fabrics- Yarn, count of yarn and fabric, grain, balance, selvedge and its types.

## Unit 4

4 hrs
Fabric design- Design, draft, peg plan and denting plan.

## Unit 5

6 hrs
Elementary weaves- glossary and characteristics of
Plain weave - variation (rib and basket variations)
Twill weave- variation (RHT, LHT, Pointed/Chevron and Herring bone)
Satin weave- variation (sateen)
Graphical representation of the above weaves.

## Unit 6

8 hrs
Figured weaves
Dobby- mechanism, types- honeycomb, huck-a-back, bird's eye and uses.
Jacquard- mechanism, types- damask, brocade, tapestry and uses.
Crepe weave- mechanism, types- true crepe, balanced and warp crepe and uses.
Pile weave- mechanism, types- warp pile, weft pile, corduroy and uses.
Leno- lappet (extra set of warp), swivel (extra set of weft)
Unit 7 4 hrs
Fabrics- Handloom, Power loom, Khadi - History, importance, types of fibers used and application.

## Unit 8

## 6 hrs

Knitting- mechanism, characteristics, types and uses. Differences between knitted and woven.

## Unit 9

## 6 hrs

Other methods of fabric making- Felts, fur, knotting, braiding- construction methods and uses.

## References

1. Ormerod A, " Modern Preparation and Weaving machinery", Woodhead Publication, 2004
2. W.S. Murphy, "Textile Weaving \& Design", Abhishek Publication, 2003
3. J. Gordon Cook, Hand Book of textiles Fibers Vol I \& II", Woodhead Publication
4. Amjden C.A "Navaho Weaving Its techniques and History", Abhishek Publication.
5. Z.J. Grosicki, " Watson’s Textile Design \& Colour, $7^{\text {th }}$ Edition, Woodhead Publication
6. W.S. Murphy, "Handbook of weaving" Abhishek Publication
7. Deborah Chandler, "Learning to weave", Interweave Press, 1995
8. J.J. Pizzuto, "Fabric Science" $6^{\text {th }}$ Edition, Fairchild Publications

## FABRIC ANALYSIS

## Practicals

FAD 203 B 16 practicals of 3hours each
Unit-1 4
Identification of weaves- Collection of fabrics for basic weaves- sample, uses with checkerboard design.
Figured weaves- samples and uses.

## Unit-2

6
Analysis of fabrics- design, draft, denting and lifting plan for plain, twill and satin, honeycomb, huck-a-back, mock leno.

Unit-3
Knitted fabrics- diagrammatic representation for weft knit- single jersey, interlock and rib

## Unit-4

Collection of various types of fabrics based on application- apparel, upholstery and furnishings.

## BASICS OF GARMENT CONSTRUCTION

## Theory

Total no of hours: 48
FAD 204 A

## Objectives:

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

## Unit 1 <br> 5 hrs

Sewing techniques- Methods of machine stitching and its importance, Basic hand stitchesbasting, running, tacking, hand overcast, button hole, hemming stitches- plain \& blind hemming,

## Unit 2

5 hrs
Seam \& seam finishes- Definition, terminologies-seam, seam line, seam allowance, seam length, seam width, types of seams and seam finishes and their application.

## Unit 3 <br> 6 hrs

Fullness- darts, dart equivalent, tucks, pleats, gathers \& style lines - definition, terms, types and its applications

## Unit 4

6 hrs
Yokes-Definitions, purpose, types-with fullness \& without fullness. Pocket-patch, welt in seam.

## Unit 5

6 hrs
Sleeves- Definition, terms, classification, types-gathered, bell, kimono, raglan \& construction.
Unit 6
6 hrs
Collars - Definition, terms, classification, types - peterpan, turtle neck, shawl, Chinese, shirt \& its construction.

## Unit 7

6 hrs
Skirts - Basic-flared, circular, gathered, pleated, basic waist band application.

## Unit 8

8 hrs
Fasteners- Definition, types.
Finishes-Edge, piping, facing (bias facing, shaped facing).
Plackets- definition, types

## References

1. Bane Allyne, Flat pattern design, M C Graw-Hill Pub. USA
2. Winfred Aldrich, "Metric Pattern Cutting", Black Well Science, UK
3. Helen J. Armstrong, "Pattern making for fashion design" Prentice Hall

## BASICS OF GARMENT CONSTRUCTION

## Practicals

16 practicals of 3 hrs each
FAD 204 B

## Unit 1

Sewing techniques - Basic hand stitches- basting, running, tacking, hand overcast, button hole, hemming stitches - plain \& blind hemming, slip stitch, tailor's tack. Machine sewing techniques- edge stitching, top stitching, shirring, and gathering

## Unit 2

Seam \& seam finishes- Plain, flat fell, French, turned \& stitched, lapped, double top, pinked, over lock, hand overcast \& pinked and stitched

## Unit 3

2
Fullness- darts, tucks, pleats, gathers, style lines
Unit 4
Yokes-With and without fullness
Unit 5
Sleeves- plain, gathered, raglan, kimono

## Unit 6

Collars- peter pan, turtle neck, Chinese, shawl, shirt
Unit 7
Fasteners- press buttons, hook \& eye, shirt button \& button holes \& zips
Unit 8
Finishes- neckline finishes- facing, shaped facing and piping/binding. Placket finishing- continuous/ one piece, bound/ two piece placket

# III SEMESTER FASHION ART DESIGN 

## Theory

Total teaching hrs - 48
FAD 303 A

## Objectives

To help students understand the fundamentals and principles of figure design.
To understand different illustration techniques and dynamics of figure sketching.

## Unit: 1 <br> 6 hrs

Design development: Motif, pattern and design manipulation, -inspiration from nature and history.

## Unit: 2

## 8 hrs

Fashion design: Definition, understanding garment design, its features functions and application in various categories of dress-based on Age and activity. Type- Casual, Formal and Ethnic.

Unit: 3
8 hrs
Garment details: Features and function and application. Different types of collor, sleeve, pockets, cuff, yoke and their visual impact on various figure types, to create optical illusion.

## Unit: 4

## 6 hrs

Flat sketch: Its importance and application. Drawing flat sketches and specs. Designer sketching. Ways of layout, flats for kids, women and men's wear.

## Unit: 5

6 Hrs
Fashion, Dress and Accessories: Elements and principles of design in dress, accessories and fashion. Its importance and application.

Unit: 6
8 Hrs
Designers and artists of national and international repute and their creation. National designers-Ritu Beri, Rohit Bal, Ritu Kumar, JJ Valya, Manoviraj Khosla, International Designers-Gucci, Tommy Hilfiger, Donna Karan, Varsachaes.

## Unit:7 <br> 6 hrs

Fashion clothing psychology: Pattern recognition and perception, Gest alt factors, subjective factors in selection of clothing. Personality, attitude and motivation.

## References

1. "Signs and symbols their design and meaning"- Translated by- Andrew Bluhm, Studio Editions
2. "Fashion Design and illustration for women, Men and children" by Patrick John Ireland
3. "Fashion sketch book" $4^{\text {th }}$ edition - by Bina Abling, Om Publications.
4. "Fashion Design Drawing course", by Caroline Tathan, Julian Seaman, Thames \& Hudson.
5. "Psychology of clothing" by Bush. G, London 1990

## FASHION ART DESIGN

## Practicals <br> 16 practical of 3 hrs . each <br> FAD 303 B

Unit 1
2
Basic human proportions, Anatomy and model drawing-8, 10, 12 head theory- Straight, slash, motion posture.

Unit: 2
Body figures and features-Hair styling, eye, face, arm, legs. (4 each)
Unit 3
Fabric rendering- woven- ( 2 swatches), on croqui ( 2 Nos.).
Fabric rendering- Knits- ( 2 swatches), on croqui ( 2 Nos.).
Fabric rendering- printed- (2 swatches), on croqui (2 Nos.)

## Unit 4

Garment details- collars, cuffs, sleeves, yokes, necklines, pockets (3 each)
Style manipulation Illustrations of skirt, trouser, gowns, frocks, shirt, jackets.

## Unit: 5

Figure stylization- reducing of figure from 8 head to 6 head and elongation of Figure from 8 head to 10 head, 12 head ( 2 each).

Unit: 6
2
Figure foreshortening with 3D- effect (2 each)
Figure composition -Theme based (2 each).

## Unit 7

2
Sketching - folds and curves of different fabric drapes.

## PATTERN MAKING \& CLOTHING CONSTRUCTION

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Theory
Total no of hours: 48
FAD 304 A
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## Objectives

To introduce the garment constructional particulars.
To familiarize students with clothing construction for different age groups

## Unit 1 <br> 8 hrs

Definition of 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 6 hrs
Handling special fabric-factors for consideration while making patterns \& garment construction using special fabrics-stretch fabrics, knit, checks, plaids, velvet, leather, fur \& lace

## Unit 3

4 hrs
Interlining-interfacng- materials, types, properties, applications.

## Unit 4 <br> 8 hrs

Draping- definition, terminology, principles of draping. Dress form- preparation \& uses, measurement \& tools used for draping, basic draping techniques- front, back, skirt front, skirt back. Dresses- bias, cowl \& princess line.

## Unit 5 <br> 8 hrs

Intimate garments- Introduction, materials used \& types of fitting for men's innerwear briefs \& trunk. Women's innerwear brassier \& panties.

## Unit 5 4 hrs

Fitting- principles of fitting, standards for a good fit, e-fitting

## Unit 6 <br> 6 hrs

Pattern alteration techniques- pivot, slash \& seam method-length- width- front-back-sleeve-shirt-skirt-trousers

## Unit 7

4 hrs
Grading - definition, principles, types \& importance

## References

1. Bane Allyne, Flat Pattern Design, McGraw Hill pub., USA
2. Winfred Aldrich, Metric Pattern Cutting, Blackwell Science, UK.
3. Patric Taylor et.al., Grading for the Fashion Industry, Stanley Thomas Ltd., 1990
4. Helen J Armstrong, The Art of Fashion Draping, Fairchild's pub., 2003

## PATTERN MAKING \& CLOTHING CONSTRUCTION

## Practicals

16 practicals of 3 hrs each
FAD 304 B
Unit 1
Designing \& construction of garments with style features using drafting, flat pattern technique- infant jabla, waistline frock for girls and bush shirt for boys

## Unit 2

Designing \& construction of garments with style features, women's wear using drafting, flat pattern technique-Casual wear- Kameez, Salwar/chudidhar.

## Unit 3

Designing with style features and constructing designer choli using draping technique
Unit 4
Designing \& construction of casual wear for men using drafting, flat pattern technique
Unit 5
Grading of patterns

## Theory <br> FAD 305A

Total no. of hours- 48

## 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

4 hrs
Introduction to wet processing, sequence of wet processing operations for cotton, silk and wool. Equipments and machineries used for wet processing.

## Unit 2 <br> 6 hrs

Preparatory processes: singeing, scouring, degumming, bleaching and mercerization

## Unit 3 <br> 8 hrs

Dyeing- Introduction, classification and application of dyes, direct, basic, acid, vat, reactive and disperse dyes. Methods of dyeing: stock, yarn, piece and union.

Unit 4
6 hrs
Printing methods- block, screen, roller, styles- direct, resist, discharge and transfer.
Unit 5
4 hrs
After treatments for dyed and printed goods- washing, steaming and drying.
Unit $6 \quad 8$ hrs
Finishes- definition, types.
Basic/routine- Tentering, carbonizing, decatising, sanforising, weighting.
Functional/special-waterproof, soil repellent, antimicrobial, enzymatic, fire proof, calendering

## Unit 7

6 hrs
Garment processing and finishing. Garment dyeing, types of washing machines, centrifuge and drying.

## Unit 8

6 hrs
Care of fabrics- Principles of laundering, Stain removal, various solvents used and different methods of washing, application of friction, light pressure, suction and tumble wash, soaps and detergents.

## References

1. A.J. Hall " The Standard Hand Book of Textiles", Woodhead Publication, 2004
2. J.E. Smith " Textile Processing -Printing, Dyeing, Abhishek Publishing, 2003
3. Kate Broughton, Textile Dyeing", Rockport publishers, 1996
4. W.S. Murphy, "Textile Finishing", Abhishek Publication,2000
5. Rosi Robinson, "Creative Batik", Search Press, 2004
6. Janice Gunner, " Shibori for textile Artists", Batsford London

## WET PROCESSING

PracticalsFAD 305 B
16 practical of 3hrs each
Unit 1 ..... 2
Desizing and Scouring
Unit 2 ..... 3Bleaching of cotton and wool- Using hydrogen peroxide
Unit 3 ..... 6Dyeing of yarns with - direct, acid, reactive and vat dyes.
Unit 4 ..... 4
Block printing-direct and reactive dyes Screen printing- direct and reactive dyes
Tie and dye- direct dyes
Batik- reactive dyes
Unit 5 ..... 1Stain removal of oil, soil, grease, blood and beverages.

## IV SEMESTER <br> TRADITIONAL TEXTILE ART

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Theory
Total no. of hours- 48
FAD 403 A
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## Unit 1

4 hrs
Introduction to traditional textile art.

## Unit 2 <br> 8 hrs

Study of historical designs of different countries and their influence on textiles-Persian, Mughal, Egyptian, Chinese, Japanese and Roman

## Unit 3

5 hrs
An overview on influence of religion, art, trade, royalty and culture in Indian textiles.

## Unit 4

## 8 hrs

Symbolic motifs - Paisley, creeping wine, lotus, tree of life, fish, tortoise, elephant, conch, colours, peepal leaf, protective elements, temple motif, lion, goose, peacock, swan, geometric motifs, god and goddesses, etc.

## Unit 5 <br> 8 hrs

Traditional textiles of India- types and uniqueness
Woven- Brocades of Banaras, Baluchuri, Chanderi, Tanchoi, Kanjivaram, himru, amru, mashrus and Dacca muslins.
Dyed- Tie \& dye, ikat, double ikat, bandhini
Printed- block printed fabrics
Applied- Dyed and Painted textiles (Kalamkari, Madhubani, Wali)

## Unit 6

4 hrs
Design developing - study of motif, design and pattern - geometric, natural/realistic, conventional, abstract and stylized, design modification.

## Unit 7

8 hrs
Development of design- Motif, design, pattern and repeats- drop repeat (full drop, $1 / 4,1 / 2,2 / 3$, $3 / 4^{\text {th }}$ drop), brick repeat, mirror repeat (vertical, horizontal, vertical and horizontal). Combination of different motifs in a pattern, pattern arrangements- Bases- ogee leaf base, diagonal base, square base, vertical, horizontal, counter change and borders.

## Unit 8

3 hrs
Repeats emphasizing colour theory, composition and elements of art and principles of design in relation to traditional textiles.

## References

1. Z.J. Grosicki, "Watson's Textile Design \& Colour, $7^{\text {th }}$ Edition," Woodhead publishing Ltd, 2004
2. Susanne Hahn , "A Complete Guide to Silk Painting", Search Press, 1995
3. Kazz Ball \& Valerie Janitch, "Hand Painted Textiles", A. David \& Charles Craft Book 1991
4. John Gillow \& Nicholas Bernad, "Traditional Indian Textiles". Thames \& Hudson, 1993
5. Martand Singh, "Saris of India- Bihar \& West Bengal", Wiley Eastern Ltd. 1993
6. Rta Kapur chishti \& Amba Sanyal, "Saris of India -Madhya Pradesh," Wiley Eastern Ltd, 1989
7. Madhu Priya, " An innovative Collection of Indian Textile designs," Honesty Publishers \& Distributors
8. Satheesan, "Innova-Indian Ethnic designs", Honesty Publishers \& Distributors, 2004
9. Lebeau Dirand \& Corbett, "Fabrics The decorative Art of Textiles," Thames \& Hudson, 2004

## TRADITIONAL TEXTILE ART

## Practicals

FAD 403 B

## 16 practicals of 3hrs each

## Unit 1

Tools and equipments used for traditional textile design- dyeing, printing, painting.

## Unit 2

Design-Structural and Decorative, Development of design using element of art and principles of design for textile materials.

Unit 3
Design organization emphasizing repeats- drop, block, brick, mirror and its variations.

## Unit 4

Saree designing- border, all over and pallu.

## Unit 5

Adaptation of traditional designs to present trends in apparel. (Men, Women).

## Unit 6

Folio Presentation of various woven, applied, dyed and printed textiles- 4 samples from each type and end use.

## HISTORIC COSTUMES

## Objectives

To acquaint students with different types of costumes.
To enhance the students' knowledge regarding accessories and Jewellery of different eras.

## Unit: 1 <br> 6 hrs

Introduction to origin \& functions of clothing. Indus Valley civilization, Vedic age
Unit: 2
10 hrs
Costumes of the world - Egyptian, Roman, Greek, Japanese, American, French.
Costume and fashion of different eras- Victorian to II world war
Unit: 3
10 hrs
Middle Ages-Mauryan, Guptas, Satavahanas, Kushans.

## Unit: 4

6 hrs
Mughal Influence

## Unit: 5

8 hrs
Influence of change in costumes - Women and Men at war, between war and post war. Equality between men \& women, sexual revolution, French revolution.

## Unit: 6

Costumes of the different regions in India. $8 \mathbf{~ h r s}$

## References

1. "Traditional Indian costumes \& textiles", by - Dr. Parul Bhatnagar, Abhishek Publication.
2. "The Costumes and textiles of India", by - Jamila Brij Bhusan, Taraporevala- Bombay.
3. "Master piece of Indian jewellery", by - Jamila Brij Bhusan, Taraporevala- Bombay
4. "A history of Fashion in the $20^{\text {th }}$ Century", by - Konemann
5. "Survey of historical costumes, A History of western dress", by- Phyllis Tortora, Keith Eubank, Fairchild Publication
6. "Traditional Indian Textiles", by- John Gillow, Necholas Barnard, Thames \& Hudson

## HISTORIC COSTUMES

## Practicals

16 practical of 3 hrs . each

## FAD 404 B

Unit: 1
Sketching costumes and accessories for men and women for the following; Indus Valley civilization and Vedic age

## Unit: 2

5
Sketching costumes and accessories for men \& women for the following: Egyptian, Roman, Greek, Japanese, American

Unit: 3
Sketching costumes and accessories for men \& women for the following: Mauryan, Kushan, Gupta, Mughal

## Unit: 4

Sketching costumes and accessories for men and women for the following - regional costumes of India - East, West, North \& South (Two each)

## ENTREPRENEURSHIP DEVELOPMENT

## Theory <br> Total No. of Hours 64 <br> FAD 405

## Objectives

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

## Unit-1

## 10 hrs

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

10 hrs
Entrepreneurial support by state, central financial institutions, organizations. Government policies with reference to textile and apparel industry.
Unit -3 10 hrs
Business planning- Starting a new venture related to apparel industry, essentials of a successful centre.

## Unit-4

16 hrs
Location \& plant layout-factors influencing plant location, building, structure, lighting, ventilation, material handling, availability of labour, material management and transportation.

## Unit -5

14 hrs
Industrial sickness and remedies, tax planning, VAT, Patent Rules, Factory Act, Minimum wages, knowledge of exemptions \& deductions
Unit-6
4 hrs
Environmental considerations and social responsibilities

## References

1. RajaGopal, Entrepreneurship \& Rural markets
2. H.B.S press, Harward Business Review on Entrepreneurship, Harward business review, USA
3. Michele Gananger, Fashion Entrepreneurship Retail Business planning.
4. Harrell.W. For Entrepreneurs only, Career Publishing.
5. Jain G R \& Gupta D, New Initiatives in Entrepreneurship Education \& Training

## V SEMESTER <br> FASHION ACCESSORIES

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Theory Total teaching hrs - 48 hrs
FAD 501 A
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## Objectives

To impart knowledge on fashion accessories and creativity.
To provide opportunity for skill development in designing accessories.

## Unit 1 <br> 4 hrs <br> Introduction to Fashion accessories- Definition, History, Classification.

## Unit 2

8 hrs
Accessories with garments - Traditional \& Contemporary styles
Types of accessories - head wear/head gear, handbags, gloves, hats, scarves, ties, bows, belts, foot wear-shoes/sandals/slip ons.

## Unit 3

8 hrs
Material \& Process-Design development, material, sourcing, production.

## Unit 4 <br> 8 hrs

Jewellery design - Definition, types - gold, silver, terracotta, Menakari, Kundan, Thevva Jewellery, platinum, zardosi, swaroski, junk, bridge etc.

## Unit 5

8 hrs
Traditional Indian jewellery -Temple, traditional, Mughal, Contemporary jewellery

## Unit 6

6 hrs
Gems - Introduction to gemology,
Types of gems \& its classification
Qualities of gems \& healing power of gems

## Unit 7

6 hrs
New trends \& marketing of accessories \& Jewellery.

## References:

1. "Quick style", by- Christine Kunzerlman.
2. "Know your Fashion Accessories" by- Celia Stall-meadows, Fair child publication.
3. "Master piece of Indian jewellery", by- Jamila Brij Bhusan, Taraporevala- Bombay

## FASHION ACCESSORIES

## Practicals

FAD 501 B
Unit: 1
Sketching \& rendering of accessories - headgear, footwear, handbags, ties, belt, gloves, Hats.

## Unit: 2

Sketching \& rendering of jewellery - ear wear, nose wear, hand wear, neck wear, arm wear, finger ring, anklet etc

Unit: 3 : Sketching of Accessories - Women, Men, Children (on croquie)

## Unit: 4

Creation of accessories - Theme based - headgear, earring, hand wear, neck wear, finger wear, anklet, waist wear, footwear.

Unit: 5 : Folio on Accessories - Fiber, thread, buttons, wood, leather

## GARMENT SURFACE ORNAMENTATION

## Theory

Total teaching hrs - 48 hrs
FAD 502 A

## 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 <br> 4 hrs

## Unit: 2

12 hrs
Traditional Indian embroidery- History, types of embroidery of different states of India Kutch, Kathiwar, Sindh, Pulkari, Kantha, Kasuthi, Chamba rumal, Gold \& Silver embroidery, Zardosi, Chikankari, Kashida - Material, motifs, colour, stitches, technique, relevance

## Unit: 3

10 hrs
Tribal Embroidery- Introduction, Types -Nagaland, Manipuri, Lambadi, Thoda with their traditional influence, symbolism, techniques, fabric, stitches \&colour combination

Unit: 4 : Patch work, Applique, Quilting- Introduction, tools, material \& techniques. 6 hrs

## Unit: 5

Crochet - Introduction, tools, material, techniques and types
Knitting - Basic, Texture, Rib, Diagonal, Lace pattern, Cable pattern, Cross, Knotted
Unit: 6 : Special techniques-Braiding, Hooking, Smocking, Bead \& Sequins. 8 hrs

## References

1. Shaylaja.D. Naik: Traditional Embroideries of India-APH Corp, New Delhi 1996
2. Sheila Paine: Embroidered Textile -Thames \& Hudson Ltd. 1990
3. Usha Srikant : Ethnic Embroideries of India
4. Savithri Pandit: Indian Embroidery

## GARMENT SURFACE ORNAMENTATION

Practicals
16 practical of $\mathbf{3} \mathbf{~ h r s . ~ e a c h ~}$
FAD 502 B
Unit 1
Embroidery - basic embroidery stitch - Straight stitch-Stem, Back, feature stitch; Flat stitchSatin, Cross; Loop stitch - Herring Bone, Feather stitch; Knotted stitch-French knot, Bullion Knot.

Unit 2 : Knitting - Basic- Pearl, Knit, Garter, Stocking, Rib 5
Unit 3 : Crochet - Single \& Double 2
Unit 4 : Applique, Quilting, Patch work, Smocking, Braiding, Hooking, Lace and Ribbon work. 2

## Unit: 5

Traditional embroidery - Kutch, Kathiawar, Kasuthi, Chikankari, Kantha, Kashida.Pulkari, tribal embroidery

## TEXTILE TESTING

## Theory

FAD 503A
Unit 1
Total no. of hours- 48

Introduction to textile testing, objectives of testing, Selection of samples for testing- factors to be governed- fiber sampling, yarn sampling, fabric sampling methods, Terminologies

## Unit 2

6 hrs
Moisture relations- Regain, moisture content, humidity, standard atmosphere. Wet and dry hygrometer, factors affecting regain of textile materials, effects of regain on fiber properties.

## Unit 3

6 hrs
Fiber testing- measurement of fiber length, comb sorter, fibro graph, measurement of fiber fineness- air flow instruments, measurement of maturity of cotton.

Unit 4

## 8 hrs

Yarn testing- yarn count, Yarn twist, twist direction, amount of twist, effects of twist on fabric properties, measurement of twist.
Yarn evenness- causes of irregularity, effects of irregularity, measurement of irregularity.

## Unit 5

## 10 hrs

Fabric testing- fabric dimensions- length, width, thickness, determination of fabric weight, cover factor, air permeability, stiffness, drape, crease resistance, abrasion resistance, pilling.

Determination of colour fastness to laundering, rubbing, light and perspiration.

## Unit 7

8 hrs
Tensile testing of textiles- Terminology and definition- load, elongation, stress, strain, yield point, work of rupture, elastic recovery. Tensile strength, Tear strength and Bursting strength

## References

1. J.E .Booth, "Principles of Textile Testing," CBS Publishers and Distributors, 1996
2. B.P. Saville, "Physical testing of Textiles", Woodhead Publishing Ltd. 1999
3. Pradeep V. Mehta, "Managing Quality in Apparel Industry," New Age international Ltd.
4. J.N. Mandal, D.G. Divshikar," A Guide to Geo Textiles Testing," New Age International Ltd
5. Arindam Basu, Textile Testing, SITRA Publications.

## TEXTILE TESTING

## Practicals

FAD 503 B
16 practicals of 3 hrs each

## Unit 1

Fibre testing: fibre length, fineness, maturity of cotton.
Unit 2
Yarn testing: yarn count, yarn twist, yarn strength

## Unit 3

Fabric construction particulars: aerial weight, thickness, thread count, cover factor.
Unit 4
Evaluation of fabric properties: bending, tensile strength, tear strength, crease recovery, pilling.

Unit 5
2
Determination of colour fastness- washing, sunlight and rubbing.

## APPAREL PRODUCTION

## Theory

Total No. of Hrs: 48
FAD 504 A

## Objectives

To introduce the students to various departments of an apparel industry
To impart skills in apparel production

## Unit 1: <br> 4 hrs <br> Introduction to Apparel production

## Unit 2: <br> 6 hrs

Sampling department- importance of sampling department, objectives, types of sample- size set, fit sample, prototype sample, production sample

## Unit 3:

10 hrs
Cutting department: Machineries, fabric laying, marker preparation, sorting, numbering \& bundling, Fusing department- methods of fusing, fusing machines

## Unit 4:

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

## Unit 5:

8 hrs
Finishing \& pressing department, Trimming department, packing department

## Unit 6:

## 6 hrs

Industrial Engineering - Method study \& Work study, Ergonomics, Standard time calculation, Balancing

## Unit 7:

## 6 hrs

Apparel accessories \& components - fasteners, labels, support materials, decorative trims, tapes \& packing materials

## References

1. Chutler A J, Introduction to clothing Production Management, Blackwell Science, UK, 1998
2. Harold Carr \& Barbara Latham, The Technology of Clothing Manufacture, Oxford Pub., USA, 1994
3. Rajesh Bheda, Managing productivity in the Apparel Industry, CBS pub., New Delhi, 2003
4. Ruth E C, Apparel Manufacturing \& Sewn Product Analysis

## APPAREL PRODUCTION

Practicals 16 Practical of 3hrs each
FAD 504 B
Unit 1: Analysis of spec sheet ..... 2
Unit 2: ..... 4
Stitching of executive suit- Skirt and jacket using block including consumption \& calculation
Unit 3: Stitching of formal shirt using block including consumption \& calculation ..... 4
Unit 4: Stitching of trouser using block including consumption \& calculation ..... 4
Unit 5: Folio on all accessories \& components ..... 2

## APPAREL COMPUTER AIDED DESIGN

## Theory <br> FAD-505 A

Total no. of Hours: 48

## Objectives

To acquaint students with CAD and CAM based applications in Textiles and Apparel Industry.
To impart nnowledge of computer applications in design, draft, cut, production and Management information systems.

## Unit-1

9 hrs
Introduction to CAD, Fundamentals of CAD design process and application. Computer process planning, functions, types benefits of CAP, MRP

## Unit-2

10 hrs
CAD applications in Fabric pattern designing, modifications for size and fit, making, grading, computerized marker making and marker efficiency using pattern making softwares.

## Unit-3

6 hrs
Fabric lay planning, its types, manual and computerized cutting, sorting and labelling, bundling.

Unit-4 : Software applications in production department, garment designing.
5 hrs
Unit-5
10 hrs
CAD Technology for customization, inventory management, Product data management system (PDM system)

## Unit -6

Computer aided Quality control, terminologies, inspection methods, its uses.

## Reference books

1. Mikell. P. Groover, Emory W. Zimmers, Jr," CAD/CAM Computer Aided Design and Manufacturing", Printice Hall of India Pvt. Ltd.
2. Alison Beazley \& Terry bond," Computer Aided Pattern Design and Product development." Blackwell Science,2004
3. Carr H \& Barbara Latham. B," Technology of clothing manufacture," $3^{\text {rd }}$ edition, Black well science Publication 2000
4. Winfred Aldrich, "CAD In clothing and textiles, Blackwell Science, 1994
5. Taylor P, "Computers in Fashion industry," Heineman publishers, 1990
6. Veinsinet D D , "Computer aided drafting and Design Concept \& Applications, 1987

## APPAREL COMPUTER AIDED DESIGN

## Practicals

FAD-505 B

## Unit -1

Development of Concept Board (Mood board), Client / Customer Board, Colour Card \& Textured Effects, Logo Design ( Label, Tags etc. used in ready to wear apparel).

## Unit - 2

Motifs development- Symmetrical/asymmetrical, Balanced/unbalanced, repeat (arrangements) 3/4 drop, $1 / 2$ drop, H/V, $1 / 3$ drop H/V, $1 / 4$ drop H/V
Drop Reverse, design placements on borders, pallu \& allover.

## Unit-3

Design Croquie and draping of the same on Men's. Women's \& children's casual, party, night, sports, Office/Formal wear. (One Each)

Unit-4
Designing of Garments for children-A-line, Yoke frock, Bush shirt, trouser, Shorts. (Size 4, 6 and 8)
Women's-Salwar Kameez, Dart tops, Skirts, Trousers, Gown (Size 8 \& 10)
Men's - Shirt, Jacket, Trouser, kurta (Size 38, 40, 42)

## Unit-5

Sloper development and Manipulation using any Pattern Making Software.
Manipulation of darts, seam allowance, notches, hem line manipulation of Grain lines.

## FASHION BUSINESS MANAGEMENT

## Theory <br> FAD 506

Total No of Hours-64

## Objectives

To develop and deliver effective presentations, conduct and participate in meetings and use the specific tactics to improve negotiation skills
To impart knowledge of merchandising in fashion industry

## Unit: 1

10 hrs
Communication Process- Definition, types, scope, process, problems
Networks of communication, intra and intercultural communication
Unit: 2
12 hrs
Fashion Promotion, Media Planning \& Production
Communication through different media - media ethics, press notes
Fashion Advertising \& Public Relations, Image management - Brand building, Fashion centers \& Trade shows

## Unit-3

6 hrs
Introduction to Merchandising, terminologies, concept and application of merchandising, types of merchandisers
Unit-4 6 hrs
Apparel industry framework, apparel manufacturer, buying houses, apparel exporters, apparel supply chains and retail segments.

## Unit-5

10 hrs
Sampling-Importance, presentation, counter samples, importance of time in sampling, sample costing and preparation of quotations

## Unit-6 <br> 8 hrs

Order confirmation, line planning, style planning, production and quality planning. Sourcing of fabrics, accessories, lead time for the supplies, cost, production of prototype and production sampling.

## Unit-7

12 hrs
Retailing merchandiser, concepts, Quick response, Just in Time, Merchandising calendar, trend analysis, forecast analysis, concepts of apparel product lines, planning, directing, coordinating and controlling.

## References

1. Grace I. Kunz, Merchandising: Theory, principles and practices, Fairchild publication
2. Elaine Stone, Dynamics of Fashion, Fair Child Publication
3. Phillip Kotler, Marketing Management, Pearson Prentice Hall,
4. Tim Jackson \& David Shaw, Fashion Buying \& Merchandising Management,
5. M.S. Shesahdri, Apparel marketing \& Merchandising, MS Publication, Bangalore.

## VI SEMESTR <br> APPAREL QUALITY ASSURANCE

## Theory <br> FAD 601 A

## Objectives

To acquaint students with the quality control and quality assurance practices
To acquaint students with quality testing procedures.

## Unit 1

10 hrs
Introduction to quality control: definition of quality, importance of quality assurance, fabric inspection, IPQC, AQL, MIL standards and final inspection.
Unit 2 8 hrs
Concepts of TQM, tools used for quality assurance.

## Unit 3

6 hrs
Care labels, international care labeling system, Japan/Canada/British care labeling systems. Eco labels.

## Unit 4

10 hrs
Accessories testing, inspecting garments using measuring tapes / without using measuring tapes, Spec sheet analysis, button quality testing, packing of shirt and identifying faults.
Unit 5
10 hrs
Applying quality assurance Programmes in fabric, cutting and production department.
Unit 6 : Fabric defects, causes \& remedies
4 hrs

## References

1. J.E. Booth, "Principles of Textile Testing," CBS Publishers \& Distributors
2. Kenneth L. Arnold \& Michael Holler, "Quality Assurance Method \& Technologies," McGraw Hill Publishers, USA
3. Pradeep V. Mehta \& Satish Bharadwaj, "Managing Quality in Apparel Industry," New Age International, Ltd. 1998
4. Amubhai Patel, "Towards Zero defect," Meena Publishers

## APPAREL QUALITY ASSURANCE

## Practicals <br> FAD 601 B

## 16 practical of 3hrs each

Unit 1 : Fabric inspection (4 \& 10 point)
Unit 2 : Designing and inspection of apparel care labels, contents, dimensions and position. 4
Unit 3 : Identification of fabric and garment defects.
Unit 4
Preparation of spec sheets for children, men and women's wear Faults in apparels, packing a shirt and identifying faults.

## PORTFOLIO PRESENTATION

Theory
Total teaching hrs $\mathbf{- 4 8} \mathbf{~ h r s}$
FAD 602 A

## Objectives

To make students understand the importance of portfolios and presentations To impart practical skills for portfolio presentation.

## Unit: 1

8 hrs
Port folio - Definition, different revolution, types
Fashion forecasting and its importance

## Unit: 2

6 hrs
Fashion portfolio- advertisement \& promotion

## Unit: 3

4 hrs
Sources of information \& literature on fashion clothing- Indian \& International.
Unit: 4 hrs
Fashion categories
Clothing categories based on age, gender, season \& occasion, styling, price, size range for men's, women's, kids wear

Unit: 5
10 hrs
Product Development
Inspiration board, Mood Board, Color Board, Story Board, Theme Board, Client Board, Swatch board, Spec sheet

Unit: 6
6 hrs
Material Management \& Presentation Skills
Costing \& Spec for Portfolio collection
Unit: 7
6 hrs
Fashion Photography - Methods, types, location, lighting \& its importance.

## References :

1. J Jarnow and KG Dickenson, "Inside the Fashion Business" Prentice Hall
2. Gini stephens Frings "Fashion- from concept to consumer" Pearson Education
3. Jerligan Easterling "Fashion Merchandising and Marketing" Pearson Education
4. Polly Guerin "Creative fashion Presentations" Fairchild Publications
5. Drake/ Spoone/Greenwald "Retail fashion promotion and Advertising"

## PORTFOLIO PRESENTATION

## Practicals

16 practical of $\mathbf{3} \mathbf{~ h r s ~ e a c h ~}$
FAD 602 B

## Unit 1

Theme Based portfolio presentation - 4 collections of 2 ensembles of each based on themes
Unit 2 : Presentation of your designs inspired by any designer of your choice $\mathbf{2}$
Unit 3
Preparation of Portfolio of one collection -5 garments
Mood board, Story board, colour board, texture board, client board, logo, flat patterns.
Development of Costing \& Spec with style, colour, design details, fabric, trims etc
Unit 4
Preparation of Folio on Fashion Photography. Indoor Location, Outdoor Location. Based on Location, time, Lighting

## NONWOVEN AND TECHNICAL TEXTILES

## Theory <br> Total No. of Hours-64 <br> FAD 603

## Objectives

To acquaint students with the application of Non woven $\&$ technical textiles in industry To impart knowledge of technical textiles with their properties and applications.

## Unit-1

10 hrs
Introduction to non-woven and technical textiles, terminologies, scope of non-woven \& technical textiles in India.

## Unit-2 <br> 12 hrs

Classification of non-woven-felt, film, stitch, bounded, leather, foam, braiding, multicomponent fabric-its manufacture \& applications.
Unit-3 : Important technical textiles and their applications $\mathbf{1 2 ~ h r s}$
Unit-4 : Intelligent textiles and their applications. $8 \mathbf{~ h r s}$
Unit-5 : Nano technology in woven and non woven textiles.
Unit-6 : Performance fibers and their application-optical fibers, silicon fibers.

## References :

1. Menachem Lewin \& Jack Preston, Hand book of Fiber Science \& Technology Volume III, High technology fibers Part A; Marcel Dekker. Inc 1993
2. Menachem Lewin \& Jack Preston, Hand book of Fiber Science \& Technology Volume III, High technology fibers Part B; Marcel Dekker. Inc 1993
3. Menachem Lewin \& Jack Preston, Hand book of Fiber Science \& Technology Volume III, High technology fibers Part C; Marcel Dekker. Inc 1993
4. Sarah.E Braddock and Marie O'Mahony;" Techno textiles - Revolutionary fabrics for fashion \& design"; Thames \& Hudson 2002

## APPAREL EXPORT DOCUMENTATION

Theory
Total No of Hours 64
FAD 604

## Objectives

To acquaint students with export and import trade
To impart the regulative \& legislative laws governing EXIM trade

## Unit-1

10 hrs
Introduction to export documentation, objectives, terminologies

## Unit-2

8 hrs
Current scenario of Indian Apparel Industry, Globalization \& its effects.

## Unit-3

16 hrs
Documentation - Principal documents, auxiliary documents, documents for claiming export assistance.

Unit-4 6 hrs
Balance of payment, deficit \& surplus in BOP, debits \& credits, risk coverage, insurance and ECGC, buyer-exporter incentives.

## Unit-5

8 hrs
India's foreign trade policy-Exim policy, Role of Govt. institutions in export promotion

## Unit-6 <br> 10 hrs

Export credit-short, medium \& long term export credits, packing credit, negotiation of bills, role of terms of payment in international trading.

## Unit-7: <br> 6 hrs

Quality control and pre-shipment inspection, clearance of cargo and customs export clearance, containerization and exchange of documents

## REFERENCES:

1. Darliekoshy, Effective Export marketing of Apparel, Global business press.
2. N. Kumar, R. Mittal, "Export Management", Anmol Publication Pvt. Ltd, New Delhi
3. P. Subba Rao, "Introduction to International Business", Himalaya publication
4. Richard M. Jones "The Apparel Industry" 2 Edition, Black well Science
5. Philip Kotler, Marketing Management, Pearson Prentice Hall

## SHOP FLOOR MANAGEMENT

## Objectives

To acquaint the students for better managerial skills on shop floor.
To enable the students to understand the intricacies of retail business.

## Unit -1

4 hrs
Introduction to shop floor management and terminologies.
Unit -2
10 hrs
Fashion Retailing-History, Scope, Importance. Types of retailing - (Domestic \& International), techniques.

## Unit -3

12 hrs
The Store Window display, Exterior of store, Illumination. Masking and Proscenia Mannequins and 3D Dressing. Props \& promotions on floor. Visual merchandising and colour pallets.

## Unit-4 <br> 10 hrs

Store interior planning - Store interiors and display locations, fixture \& dressings, Purchase display systems.
Unit -5 10 hrs
Store management - types of stores, planning, layout and storing
Unit -6 $6 \mathbf{h r s}$
Inventory control - definition, types, importance, remedies.

## Unit-7

12 hrs
Brand Building-Competitive strategies and survey, market research, fashion promoting and advertising, Trade shows, Exhibitions, Fashion shows, Trade organizations

## References

1. Laura L Bliss, Study Guide Visual Merchandising and Display III edition, 1995Fairchild Publications.
2. Castelino. M. Fashion Kaleidoscope, Rupa \& Co. 1994.
3. Gibson. G. Vedomani, Retail Management, Jaico Publishing House, Bangalore
4. Elaine Stone, The Dynamics of Fashion, Fair Child Publication
5. Brenda Sternquist, International Retailing, Fairchild Publication, New York
6. Martin. M. Pegler, Store Window No.14, No 12,Visual reference Publishers, NewYork
7. Jonny Tucker, "Retail Desire" Rotovision SA UK
