

# **SWAMI VIVEKANAND UNIVERSITY, SIRONJA, SAGAR (M.P.)**



## **SYLLABUS**

**For**  
**Diploma in Fashion Design**  
**Course Code : DFD**

Department of Fashion Designing  
Faculty of Fashion Design

Duration of Course	:	1 Year
Examination Mode	:	Yearly
Examination System	:	Non Grading

Swami Vivekanand University, Sironja Sagar (M.P.)  
2017-2018



**SUBJECT-INTRODUCTION TO TEXTILES  
COURSE CODE- DFD 101**

**Unit- I**

Introduction to textiles. Polymerisation -Types of polymers-requirements of fibre forming polymers- Definition of textile fibre and filament. General considerations with regard to fibre properties. Classification of fibers. Brief study on Cotton, Silk, Wool & Bast fibers (flax & jute only). Introduction to Manmade fibers - Filament Spinning methods - Brief study on Semi Synthetic fibers: Viscose, HWM fibers (modal and tencel) & Acetate fibres with their properties - Brief study on Synthetic fibers (polyester, nylon, polyacrylic & spandex) and their properties.

**Unit II**

Introduction to Yarn Formation-Cotton Yarn Production sequence and Objectives- Comparison of Carded and Combed Yarn- Quality requirements for Hosiery Yarn. Study of Yarn numbering systems - Yarn and Package defects.

**Unit III**

Classification of Fabric forming methods-Weaving operation - Process sequence- Comparison between Knitting and Weaving- Classification of Looms. Knitting Terms & Definitions - Comparison of Weft and Warp Knitting Classification of Warp and Weft Knitting Machines - Weft Knitting Machine Elements.

**Unit IV**

Knitting Cycle of Single Jersey & Double Jersey - Basic Structures - Modern Knitting Concepts & Specialty Knitting - Simple Calculations Weft Knitting Stitches & Notations - Basic Weft Knit Structures - Properties - Derivatives of Single Jersey, Double Jersey Fabrics - Identification of Swatches.

**Unit V**

Introduction to Wet Processing - Brief Study of Preparatory Processes of Dyeing and Objectives - Meaning of Dyes and Pigments - Various Classification Methods of Dyes - Principle & Method of Dyeing of Cotton Knitted Fabric - Principle and Working of Jigger, Beam Dyeing, Winch, Soft Flow and Air Flow Machines. Introduction to Printing - Brief Study on Different Styles of Printing & Different Methods of Printing - Defects in Dyed and Printed Cloths: Causes and Remedies. Introduction to Finishing - Mechanical and Chemical Finishing.

**References:**

1. Textiles: Fiber to Fabric 6<sup>th</sup> Edition , Bernard P. Corbman,.International students" edition, McGRAW Hill International Edition book co Singapore (1985).
2. Fabric science, 5th edition, joseph.j.p. Et.al. Fairchild publications, New York (1990).
3. Textile chemistry, peters.r.h. Vol i, ii, textile institute Manchester 1970.
4. Technology of textile processing, shenai.v.a. Vol i, ii, v, vii, sevak publications, Bombay 1981.
5. Textile Science 2<sup>nd</sup> Edition, E.P.G. Gohl & L.D.Vilensky, CBS Publishers and Distributors2006



## **FASHION DESIGN CONCEPTS AND METHODOLOGY**

### **COURSE CODE- DFD 102**

#### **Unit – I**

Introduction to Fashion – definition and origin - terms & definitions - reasons for change in fashion - classification of fashion – Style, classic, FAD, Trend - fashion cycle. Fashion designing - designers" role in styling and production of costumes.

#### **Unit – II**

Design – Definition, Types - Structural and decorative design. Elements of design – line, shape, form, colour & texture. Lines – varieties and their application in a design. Shapes - Types – Natural, stylized, geometrical, and abstract.

Colour – Definition and origin – Characteristics (hue, value and intensity) - Prang colour chart - color harmony and colour schemes. Psychology of colour and its application in apparel market. Texture – types of texture and its application in clothing.

#### **Unit – III**

Principles of design - Balance, proportion, rhythm, harmony & emphasis. Balance - asymmetrical and symmetrical. Types – Formal, Informal and radial. Proportion or scale – planning the shapes and space.

Rhythm – through repetition, alternation, progression and gradation. Emphasis using contrast colours and background. Harmony of lines, shapes, colour and textures.

#### **Unit IV**

Introduction to neck lines, waistlines, hemlines, collars, sleeves, cuffs, plackets and pockets. Fullness applied in apparel –tucks, pleats, gathers, shirring, frills or ruffles, flounces.

#### **Unit V**

Silhouettes – Types and their application in everyday use. Skirts - Basic concepts in designing the variety of skirts. Trousers – Basic concepts in designing the variety of trousers. Wardrobe planning - design development for formal, casual, party and sports wears for men, women and kids based on their location.

#### **Reference:**

1. Sumathi, G.J. "Elements of Fashion and Apparel Design" New Age International Publishers, New Delhi.
2. Kathryn McKelvey "Fashion Source Book" Balckwell Publishing New Delhi.
3. Jane Mills and Janet K.Smith "Design Concepts" Fairchild Publications, New York.
4. Judith Rasband „Wardrobe strategies for women", Delmar publishers, London.
5. Jeannette A.Jarnow, Mirianr Guerreiro & Beatrice Judelle, „Inside the fashion business" 4<sup>th</sup> edition Mac Millan Publishing Company, New York.



**GARMENT CONSTRUCTION  
COURSE CODE- DFD 103**

**Unit - I**

Elements and Functions of Clothing-Garment Analysis and Its Classification - Measurement and Size Charts for Men, Women, and Children - Requirement and Breakdown of Garments Flow Process - Torso and Bifurcated Garments - Case Study on Standard Body Measurements of Different Countries for Men, Women and Children Clothing.

**Unit – II**

Concepts of Basic Pattern and Grading - Rules for Developing Basic Patterns - Pattern Materials & Limitations - Pattern Making Tools - Introduction to Computer Aided Pattern Making and Grading. Developing Necklines in Jewel Neck - Round Neck - 'U' Neck - Square Neck - Pentagon Neck Star Neck - Inside and Outside Scallop Bateau Neck Developing Sleeves in Plain - Loose - Puff Sleeves. Concepts and Theories for Making Components and Parts for Fashionable Garments of Different Categories.

**Unit – III**

Drafting and Cutting the Patterns of following Styles Basic T Shirt - Polo Shirt - Singlet - Athletic Sport - 'V' Neck. Drafting and Cutting the Patterns of following Styles High Neck - Henley Neck - T Shirt with Hood - Raglan Sleeve - Kimono Sleeve Drafting and Cutting the Patterns of Following Styles Children's Wear - Night Wear - Brief - Shorts - Legging Defects in Pattern, Causes and Remedies. Checking Fit of the Garments. Causes for Poor Fit.

**Unit - IV**

Description of Basic Garment Sewing Machinery - Parts - Needle, Take-Up Lever, Bobbin, Bobbin Case, Presser Foot, Tension Disc, Feed Dog. Identification and Classification of Sewing Machineries: Lock Stitch, Chain Stitch, Over Lock and Flat Lock. Machine Bed Types: Flat Bed, Cylindrical, Raised and Clamp Type. Feed Mechanisms: Drop, Needle Feed, Differential, Puller, and Clamp Feed. Various Attachments: Presser Feet - Sewing Guides - Folders, Binder, Edge-Guides.

**Unit – V**

Brief Study on Classification of Stitches & Seams and their Applications. Study about Flow of Processes for Sewing Various Styles of Garments. Various Sewing Defects, Causes and Remedies. Brief Study on Trims and Accessories: Sewing Thread, Needle, Label, Zips, Lining, Interlining and Fasteners. Quality Parameters of Accessories and Trims.

**References:**

1. Pattern making for fashion design - h.g. Armstrong
2. Metric pattern cutting - Winifred Aldrich
3. Pattern making made easy - gollian Holman
4. Technology of clothing manufacture - Carr & Latham
5. Apparel manufacturers handbook - Jacob solinger
6. Guide to sewing machine
7. Catalogues of accessories



**TECHNIQUES OF SURFACE ORNAMENTATION  
COURSE CODE- DFD 104**

**Unit – I**

Introduction to Surface Ornamentation and Embroidery – General rules for Hand and Machine Embroidery – Special Attachments to Sewing Machines for Embroidery – Tools and Equipments – Needles – Threads.

**Unit – II**

Hand Embroidery stitches - Running Stitch - Laced Running Stitch - Back stitch - Stem Stitch - Satin stitch - French Knot - Bullion Knot - Cross Stitch - Blanket Stitch - Button Hole Stitch - Corel Stitch - Spider Web Stitch - Fly Stitch - Feather stitch - Chain Stitch - Lazy Daisy Stitch - Roumanian Stitch - Chevron Stitch - Cretan Stitch - Faggoting Stitch - - Fern Stitch - Fish Bone Stitch - erringbone Stitch - Couching. Techniques of Crocheting, Tatting and hand knitting to produce different Designs

**Unit–III**

Special stitches - Counted thread work on canvas material - Drawn Thread Work - Cut Work - Bead Work - Mirror Work - Sequins Work. Designing and producing fabric appliqués and placing it on children and women's apparel.

**Unit– IV**

Introduction to print designs - Repeat Patterns - Block, Drop, Brick Variations. Tie and dye techniques - Spotting, Marble effect, Chevron effect using stitches and different types of folding to create new designs. Techniques of Batik - Free hand drawing, Stitches over a design, Marble effect, splashing of wax on fabric before dyeing and other creative ideas. Fabric Painting - Outline drawing, Shading with dry and wet strokes. Stencil preparation and use of stencils to produce designs - tooth brush spraying and other creative techniques.

**Unit - V**

Machine embroidery stitches using SNLS machines - running stitch, long and short stitch, cut work. A detailed study on computerized embroidery machines - Concept of designing using software - Method of punching designs - Special attachments for sequins - Cording - Boring - Chenille works.

## **References:**

1. Encyclopedia of Embroidery Stitches Including Crewel – Dover Publications – 1974
2. Computerized Encyclopedia of Needle Work – Therese De Dillmont – 3rd Edition.
3. Decorative Painting Techniques Book – Val Holmes – 2003
4. Traditional Indian Motifs for Weaving and Printing
5. 5000 Designs and Motifs from India – Ajit Mookerjee – 1996
6. Barudan / Tazima / ZSK Embroidery Machines Catalogue



**FASHION DESIGNING AND ILLUSTRATION  
COURSE CODE- DFD 105**

**Unit-I**

Free hand drawing of lines and strokes. Drawing Heads and faces – Hairstyles – arms, hands, legs and feet.,Introduction to 8 head theory and developing a stick figure into block and flesh figures. Understanding the basics of different head theories and application of 10 head theory in illustration.,Rendering of fabric swatches and fabric drapes using different media – colour pencils, marker pens, water colour, poster colours and drawing ink.Introduction to flat sketches - different types of skirts, trousers, necklines, collars, sleeves, coats and jackets.

**Unit-II**

Designing flat sketches for children – Boy and Girl - casual wears, night wear, and sportswear and occasional wear.Designing flat sketches for women – Formal wear - casual wear - sportswear - night wear - lingerie - beach wear, party wear and ballroom gowns. Designing flat sketches for men - Formal wear - casual wear – sportswear,Illustrating children – Boy and girl in Front view, Back view, Side view and 3/4th view adopting the head theories.Illustrating Women in Front view, Back view, Side view and 3/4th view adopting the head theories.Illustrating Men in Front view, Back view, Side view and 3/4th view adopting the head theories. Converting photographic poses from magazines into fashion illustration – stylized figures .Creation of Portfolio – Preparation of mood board – customer profile - color palette - swatch board - flat sketch and illustration.

**Unit-III**

**Computer Applications in Fashion Designing**Using MS Word, Prepare the Given Report.Using MS Excel, Prepare the Given Balance Sheet.Using MS Excel Get the Output in Various Formats Such As Histogram, Pareto Chart Etc., For the Given Data.Using MS Excel do the Given Calculation and Prepare the Required Statement.Using MS Power Point Prepare The Flow Chart and Presentation Slides for the Given Topic.

**Unit-IV**

Design new motifs and create print designs using Coral draw package.Work on Adobe Photo Shop and create portfolios.Using Illustrator software, illustrate men and women in different costumes.

**References:**

1. Fashion design illustrator (men, women, children) - patric john Ireland
2. Fashion design drawing and presentation - patric john Ireland
3. Fashion sketch book – bina Abling
4. Advanced fashion sketch book – bina Abling





**GARMENT CONSTRUCTION  
COURSE CODE- DFD 106**

**Unit-I**

Draft and Construct the Pattern of Given Style / Sample as Per the Specification Given.

**MEN'S WEAR**

1. Basic T-Shirt
2. Polo T-Shirt
3. T-Shirt with Full Sleeve.
4. T-Shirt with Raglan Sleeve. KIDS WEAR

1. Bib
2. A Line Frock
3. Plain Frock
4. Rumber

**Unit-II**

**WOMEN'S WEAR**

1. Ladies Tops
2. Ladies Shirt
3. Blouse
4. Skirt "A Line"

**Unit-III**

**Machine Parts and Threading:**

1. Draw the Threading Diagram of SNLS Machine and Describe the Various Parts of Machine.
2. Draw the Threading Diagram of Ovelock Machine and Describe the Various Parts of Machine.
3. Draw the Threading Diagram of Flatlock Machine and Describe the Various Parts of Machine.

**Unit-IV**

**Pedaling Exercise on Paper and Fabrics:**

1. Straight and Curves
2. Squares, Rectangles
3. Triangles and Unlimited Shapes

**Unit-V**

**Making of Various Seams and Components:**

1. Various Seams Types - Superimpose, Bound, Lap, Piping Etc..
2. Samples of Components Such as

- A. Round Neck      B. Scallop Neck C. Gents Placket      D. Ladies Placket E. Cross Pocket  
F. Band Collar

**Making of Final Garments**

Draft The Pattern, Cut & Construct The Following Garments For The Given Measurement:

1. Men's Crew Neck / Henley Neck / Raglan Sleeve Shirt
2. Men's Vest RN / RNS
3. Ladies Skir



**PATTERN MAKING**  
**COURSE CODE- DFD 107**

**OBJECTIVE:** Introduction of basic blocks and teaching different aspects of pattern making.

**UNIT-I**

1. Terminology used in Pattern making: Pattern drafting, flat pattern making, template working pattern, production pattern, design specification sheet, pattern chart, cost-sheet, grain, dart, dart legs, dart intake, truing and blending, plumb line, vertical lines, horizontal lines, perpendicular lines, symmetric and asymmetric lines, style number, pattern size. Pivotal point and pattern manipulation, style reading, pattern making tools.

**UNIT-II**

Fitting- principles of good fit, various fitting problems and its remedies.

**UNIT-III**

Methods of Pattern Development.

- Drafting
- Flat Pattern Method

**UNIT-IV**

4. Fabric estimation and its importance.

**UNIT-V**

**Drafting of:**

Child's sleeve block

Child's skirt block

**(b) Adaptation of child's bodice to :**

Bodice length

**(1) Developing of patterns for**

**(a)** Adaption of basic sleeve

Puff Sleeve

Cap sleeve

Flared Sleeve

Magyar Sleeve

Balloon Sleeve

Petal Sleeve

Leg-o- mutton sleeve

**(b) Drafting and adaptation of various collars**

Baby Collar

Peter Pan Collar – Flat and raised

Sailor's collar

Convertible collar

**References:**

1. Mary Mathews, Practical Clothing Construction Part-II. Designing, Drafting and Tailoring Bhattarams Reprographics (P) Ltd., Chennai 2001
2. Zarapkar K.R, System of Cutting, Navneet Publications India 2005
3. Hilary Campbell, " Designing Patterns Om Book Services, New Delhi, 2003
4. Helen Joseph-Pattern Making for Fashion Design, Armstrong Pearson Education, Delhi, 2000.

5. Mary Mulasi, Garments with style, Chiton Book Company, Pennsylvania, 1995
6. Thomas Anna Jacob, "The Art of Sewing", UBS Publishers Distributors Ltd. New Delhi, 1994

# TRADITIONAL INDIAN TEXTILES & HISTORY OF COSTUME

## COURSE CODE- DFD 108

- Resist dyed textiles- bandhani, batik, patola, ikat, pochampalli.
- Printed Textiles- Sangneri
- Painted textiles- Kalamkari

### UNIT-II

- Woven textiles- brocade, jamavar, jamdani, chanderi, maheshwari, kanjivaram, paithni, baluchari.

### UNIT-III

- Kashmir Shawls- Kashmir carpet, Namda, Gaba.

### UNIT-IV

6. Traditional embroideries of different regions of India- history, motifs, stitches, threads and colours of the following:-

- Kantha of Bengal
- Chamba rumal of Himachal Pradesh
- Phulkari of Punjab
- Kashida of Kashmir

### UNIT-V

- Chickankari of Uttar Pradesh
- Kasuti of Karnataka
- zardosi of Uttar Pradesh
- Applique of Orrisa

### PRACTICAL OBJECTIVES:

- To learn basic embroidery stitches
  - To learn application of traditional motifs and designs on various textiles.
1. Basic embroidery stitches- Running, stem, chain, back, open chain, blanket, feather, herring bone, couching, lazy daisy, French knot, satin, long and short and Romanian.
  2. Sample making of following traditional embroideries
    - Kantha
    - Phulkari
    - Kashida
    - Chikankari
    - Kasuti

Preparation of an article using any one traditional embroidery.

**b.** Sample making of following

- Bandhani / Tie & Dye Batik
- Block print
- Screen print

Preparation of an article using any one traditional printing technique 13

### References:

Lynton Linda, "The Sari", Thames and Hudson Suinathi G.J., "Elements of Fashion and Apparel Design", New Age Intl. Ltd. Publisher, N. Delhi Chattopadhyay k., "Handicrafts and Industrial Arts of India", Taraporevala sons & co. Pvt. Ltd. Mumbai, 1960 Saraf D.N, "Indian Crafts", Vikas Publishing House Pvt. Ltd. 1982 Naik Shailaja D, "Traditional Embroideries of India", APH Pub. Corp, New Delhi, 1996 Paine Sherla, "Embroidered Textiles", Thames and Hudson Ltd, 1990 Chattopadhyay K, "Indian Embroidery", Wiley Eastern Ltd., New Delhi, 1977 Marrel A, "The techniques of Indian Embroidery", B.T. Batsford, London, 1992. Mrs. Savitri Pandit Traditional Embroideries of India

**PRACTICAL AND VISIT INDUSTRI  
COURSE CODE- DFD 109**