

PROGRAMME: BACHELORS IN FASHION AND APPAREL DESIGN
SEMESTER- I
Course: TEXTILE SCIENCE

CODE: 07ABSFR17111

CREDITS: 03

Unit 1

1.1 Textile fibres: Classification – General properties

Identification of textile fibres – Polymer, Polymerization types - Types of polymers

Terminologies

Methods of filament spinning - Drawing and effects

1.2 Cotton: Producing countries – Botanical and commercial classification

1.3 Brief study on Indian hybrid and imported commercial cotton varieties – Fiber morphology – Chemical structure & composition Properties - End uses. Brief study about organic cotton and its cultivation.

1.4 Jute: Producing countries – Fiber morphology – Chemical composition - Properties - End uses.

1.5 Flax: Producing countries – Fiber morphology – Chemical composition - Properties - End uses.

Unit:2

2.1 Wool: Producing countries - Grading - Fibre morphology Chemical structure & composition Properties - End uses

Felting-Study of Woolen and Worsted Yarns - End uses Brief study on specialty hair fibers and uses.

2.2 Silk: Producing countries Sericulture – Stifling & Reeling – Throwing – Degumming – Weighting. Fiber morphology – Chemical structure & composition Properties - End uses meaning of spun silk – Comparison of spun & filature silk. Brief study on wild silk varieties

Unit: 3

3.1 Semi synthetic fibres: Rayon - Regenerated and modified cellulose -Viscose rayon process flow - HWM fibres - Comparison of properties between viscose and HWM rayon's –End uses –Bamboo fiber- Process flow - Properties - End uses.

3.2 Synthetic fibres: Common steps for the production – Brief study about Polyamide, Polyester, Poly Acrylic, and Spandex Process flow to produce Nylon 6,6, Nylon 6,

Polyester filaments and staple fibres. Individual fiber properties and trade names – End uses

- 3.3** Texturisation and its effects, Types of textured yarns - Methods of Texturisation – End uses of textured yarns.

Unit: 4

- 4.1** Classification of yarn types- Staple spinning system - Types – Cotton Yarn Production sequence and objectives – Principles of short staple spinning – Comparison of carded and combed yarn Winding and its objects – Waxing and its significance Properties required for export quality hosiery yarns. Study of yarn twist and its importance – Types of yarn twist – Various yarn & package defects.
- 4.2** Blended textiles: Types of blending – Benefits of blending Prominent blended yarns of fashion apparel market Double yarn - Properties –Uses. Classification of Sewing threads & applications – Thread prerequisites – Essential properties - Production process of spun Polyester sewing thread & core spun sewing thread – Advantages. Yarn numbering systems.

PRACTICALS

CODE: 17ABEFR17CC101

CREDITS: 02

Unit: 1

Identification of Textile Fibers – Cellulosic, Protein and Synthetic

- a) Microscopic appearance (longitudinal and cross-sectional)
- b) burning Test
- c) Solubility Tests for fibers

Unit:2

Visual identification of Spun, Filament, Cord, Cable, and Fancy Yarns with sample collection

Unit: 3
Fiber blend analysis

- a) Cellulosic and proteinic fiber blend
- b) Cellulosic and manmade fiber blend
- c) Proteinic and manmade fiber blend

Unit: 4

Line Sketches of conventional spinning – Cotton and wool.

TITLE OF THE COURSE: FASHION DESIGN: ELEMENTS AND CONCEPTS

CODE: 07ABSFR17112

CREDITS: 03

Unit – 1

INTRODUCTION TO FASHION

- 1.1. Introduction to fashion: Fashion terminologies - Factors influencing fashion
- 1.2. **Line**-(1) Path, (2) Curve, (3) Direction, (4) Illusion.
- 1.3. **Shapes**-(1) Basic types (2) Structural & visual shapes.
- 1.4. **Fashion illustration basics**- simple blocking & fleshing of the fashion figure, 8 head, 10 head & 12 head figures in simple standing poses.

Unit – 2

ART MEDIA AND COLOR THEORY

- 2.1. Introduction to art media and its application, line sketching and painting techniques, object drawing, simple rendering of art material using pencil and colour pencils
- 2.2. Colour: Colour wheel, Colour theory, Colour value & intensity.
- 2.3. Texture – Colour harmony - Colour scheme
- 2.4. Colour psychology – Introduction to colour psychology – Importance of colour psychology in apparel export market

Unit – 3

ELEMENTS OF DESIGN

- 3.1. Elements of Design – Point, line, space, shape, colour and texture.
- 3.2. Principles of design - Proportion – Balance – Rhythm- Harmony.
- 3.3. Neck lines- Collar - Sleeves - Cuffs – Waistlines - Bows & ties – Plackets-Pockets.

Unit – 4

FABRIC RENDERING

- 4.1. Fabric rendering: Learning to stimulate textures of various fabrics- cotton, silk, fur, denim, print, georgette, chiffon, knitted & embroidered.
- 4.2. Rendering Ruffles, cowls, shirring, smocking, quilting, yokes, draping, gathers, pleats, frills & flounces.
- 4.3. Basic concept of variety of skirts – Methodology of designing of skirts

Course: BASICS OF GARMENT CONSTRUCTION

CODE: 07ABSEFR17113

CREDITS: 03

Unit 1: Sewing machines

- 1.1 Brief about Single needle lock stitch machine
- 1.2 Maintenance of SNLS
- 1.3 Essential tools used in garment construction- types
- 1.4 Seams and seam finishes- types of seams
- 1.5 ASTM standard seam and seam types

Unit:2 Fullness –

- 2.1 Definition, types.
- 2.2 Darts, Tucks, pleats, flares and godets
- 2.3 Gathers and shirring's, frills or ruffles, flounces.
- 2.4 Facings – bias facing, shaped facing and decorative facing. Binding – single bias binding, double bias binding.
- 2.5 **Yokes** – types, simple yoke, yoke with fullness within the yoke. yoke supporting/ releasing fullness

Unit: 3- Garment components

- 3.1 **Plackets** – definition, characteristics of good placket.
- 3.2 Types – Inconspicuous plackets and conspicuous plackets, method of constructing the same.
- 3.3 **Pockets** – types, patch pocket, bound pocket, pocket in a seam, front/ hip pocket.
- 3.4 **Fasteners** – conspicuous (Button and button – holes, button loops, button with holes, shank buttons, eyelets and cords).
- 3.5 Inconspicuous (press buttons, hooks and eyes, zips)

Unit: 4 Analysis of body measurement

- 4.1 Body measurements- importance
- 4.2 How to take body measurements, standard body measurements, figure types.
- 4.3 Pattern Making Techniques- Drafting, Draping, and Flat pattern techniques- slash and spread method, pivot method

BASICS OF GARMENT CONSTRUCTION

PRACTICALS

CODE: FAD 103

CREDITS: 02

Unit 1: Developing Hand & Machine Stitches

- 1.1 Running, tailors tack, hemming, and its types.
- 1.2 Seams of various types – superimposed seam
- 1.3 Bound seam
- 1.4 Lapped seam
- 1.5 flat fell seam

Unit:2 Fullness –

Sample preparation

- 1.1 Gathers, shirring.
- 1.2 Pleats.
- 1.3 Tucks.
- 1.4 style lines

Neck line finishing-

- 1.5 hemming,
- 1.6 piping,
- 1.7 facings and
- 1.8 bindings.

Unit: 3- Preparation of samples for plackets-

- 1.1 One piece placket.
- 1.2 continuous bound
- 1.3 closures;
- 1.4 Preparation of samples for patch pocket
- 1.5 Side seam pocket.

Unit: 4 Developing Basic bodies' patterns-Children-

- 1.1 Infant,
- 1.2 school going kid (2 pattern)
- 1.3 Samples for Flat pattern techniques- slash and spread method
- 1.4 pivot method