

**OBJECTIVES:** To enable the students to

- Become aware of and appreciate art in dress.
- Be acquainted with the methods of obtaining design in fabrics.
- Identify and recognize the types of costumes worn in various parts of India.

**OUTCOMES OF THE COURSE:** On completion of the Course, the student shall

1. Gain information about basic operation of power loom and new technologies to produce garments in industries.
2. Demonstrate an appreciation of traditional costumes and jewelry of India.
3. Gain knowledge of weaves and identify types of weaves.
4. Understand the importance of traditional textiles and its contribution to increase Nation economy.
5. Apply skills in dyes and printing techniques to enhance the beauty of various fabrics
6. Be qualified to launch an entrepreneurial venture in the area of textile printing and dyeing.

## **THEORY**

### **UNIT-I FABRIC CONSTRUCTION:**

- Weaving—Introduction, parts of the loom, Steps in weaving.
- Types of weaves—Basic and Decorative weaves.
- Concept of Grain, fabric count/ Thread count, balance, selvedge.

### **UNIT-II KNITTING AND NON-WOVEN FABRICS:**

- Knitting—Definition, classification (weft and warp)—Types of knitting, Comparison of Knitting with Weaving—Properties of Knits—Use and Care of Knits.
- Non-woven Fabrics—Felting, Bonding, Braiding, Knotting and bonding. Properties of Non-woven fabrics. Applications of non-woven fabrics.

### **UNIT-III FINISHES-CHEMICAL, MECHANICAL AND FUNCTIONAL FINISHES:**

- Introduction to finishes—Importance, Kinds of finishing processes, Classification
- Chemical finishes.—Bleaching, mercerizing, shrinking, degumming, weighting.
- Mechanical finishes—Tentering, Decating, Calendering, Schreinerizing, Moireing, napping, flocking, Crepe and wrinkled effect, beetling and embossing.
- Functional finishes—water repellence, flame proofing, mildew proofing, moth proofing, anti-septic and anti-static finishes.

### **UNIT-IV: CLOTHING SELECTION AND WARDROBE PLANNING:**

- Factors affecting selection of clothing.
- Clothing selection—Clothing for specific groups—Infants, children and teenagers.
- Selection of common household linen—Towel, table linen and bed sheets.
- Wardrobe planning—Definition, Importance, Factors and Steps for planning wardrobe

## **UNIT-V: LAUNDRY EQUIPMENT, DYEING AND PRINTING:**

- Machine Laundry – procedure in use of washing machines- precautions, starching, drying and Ironing.
- Dyeing- preparation of material for dyeing-Classification of dyes, Mode of Application for Various fibers and fabrics.
- printing- preparation of material for printing, Traditional and mechanical printing methods- Block, Tie and Dye, Batik, Roller, stencil, Screen, digital, duplex, photo printing .

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3. SeemaSekhri(2017). Text book of Fabric Science – Fundamentals to Finishing, 2<sup>nd</sup> edition, PHI Learning Pvt. Ltd.
4. Vastala. (2003). Text book of Textiles and Clothing”, 1<sup>st</sup> edition, Published by ICAR.
5. KanwarVarinder Pal Singh. (2004). Introduction to Textiles, 1<sup>st</sup> edition, Kalyani Publishers.
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