

**OBJECTIVES:**

- remember and explain in a systematic way the Principles of design, elements, classification and its importance in textile design.
- understand the different types of fibers and fabrics.
- analyse the structure of loom and classification of weaves.

**COURSE OUTCOMES:**

- Demonstrate the embroidery techniques and designs.
- Understand and apply the skills in dyeing, Printing and painting textiles.
- Create awareness by visiting embroidery, dyeing and printing units.

**UNIT-1: Introduction to textile design:**

Elements of design, principles of design, classification of methods by which design is obtained in fabric – structural and surface designs

**UNIT-2: Structural designs in fabric:**

- Basic weaves – plain weave and variations, twill weave and variations, satin weave and sateen weave – features, identification.
- Decorative weaves – jacquard weave, dobby weave, swivel weave, lappet weave, pile weave, leno weave – features, identification.

**UNIT-3: Surface design on fabrics**

- Dyeing – preparation of fabric, classification of dyes, mode of action and application for various fibers and fabrics.
- Printing – preparation of fabric, printing paste, printing on fabric, painting methods- block printing, screen printing, roller, stencil, spray, digital, tie & dye and batik printing.

**UNIT-4: Traditional textiles of India**

Importance, traditional textiles and embroideries of India – origin, fabrics of different states of India – motifs used, typical colors and fabrics used for – Dacca Muslins, Benaras Brocades, Chanderi, Kanthas of Bengal, Kasuti of Karnataka, Chikankari of Lucknow, Kashida of Kashmir, Phulkari of Punjab, Pipli of Orissa.

**UNIT-5: Traditional Textiles of India**

Dyed, Printed and Painted Textiles – History, Significance, Typical designs & fabrics used for

- Bandini/Bandhej of Gujarat & Rajasthan, Patolas, Ikkats, Telia Rumal, Pochampalli
- Kalamkari of Andhra Pradesh
- Block Printing, Stencil printing, Batik.

**Co-curricular Activities:**

**Mandatory: (Training of students by teacher on field related skills: 15 hrs)**

**For Teacher:** Training of students by teacher in laboratory and field for a total of 15 hours on visit to dyeing, printing and embroidery units etc. to demonstrate the process.

**For Student:**

- Visiting nearby hand embroidery units and observing different traditional embroidery techniques.
- Visiting nearby textile emporiums and observing the fabrics of different states.
- Preparing/Making of Hand and Traditional embroidery samples.
- Preparing/Making of Dyed, printed and painted textile samples.
- Max marks for Field Work Report:05.
- Suggested Format for Field work: Title page, student details, content page, introduction, work done, findings, conclusions and acknowledgements.
- Unit tests (IE).

**REFERENCES**

1. Chavan,R.B. (1979), Textile Printing (Book of Papers), Department of Textile Technology, IIT, New Delhi.
2. Saraiya,N.S. and Gupta,P.C. Technology and Management of Printing
3. Shenai.V.A. (1979), Chemistry of Dyes and Principles of Dyeing, Sevak Publications, Mumbai.