

AMTE-10 FABRIC STRUCTURE

UNIT-1 ELEMENTARY WEAVES

- 1.1 Plain and its derivatives,
- 1.2 Twill and its derivatives,
- 1.3 Satin, sateen and their derivatives
- 1.4 Loom requirements

UNIT-2 ORDINARY AND BRIGHTEN HONEY COMB

- 2.1 Huck-a-Back and its modifications;
- 2.2 Mock Leno;
- 2.3 Crepe weaves; colour theory
- 2.4 light and pigment theory;
- 2.5 Modification of colour;
- 2.6 Application of colours;
- 2.7 Colour and weave effects – loom requirements

UNIT-3 BEDFORD CORDS

- 3.1 Plain and twill faced, wadded;
- 3.2 Welts and piques, wadded piques;
- 3.3 Backed fabrics - warp and weft, reversible and non-reversible fabrics;
- 3.4 Extra warp and extra weft figuring –
- 3.5 Single and double colour – loom requirements

UNIT-4 PILE FABRICS

- 4.1 Warp pile - wire pile, terry pile, loose backed;
- 4.2 Weft pile – plain back and twill back velveteen, lashed pile, corduroy,
- 4.3 Weft plush – loom requirements

UNIT-5 DOUBLE CLOTH, TYPES OF STITCHES;

- 5.1 Damasks; Gauze and Leno principles – loom requirements,
- 5.2 3D fabrics.

References Books:

1. Wilson J., “Handbook of Textile Design”, Textile Institute, Manchester, 2001. Horne C.E., “Geometric Symmetry in Patterns and Tilings”, Textile Institute, Manchester, 2000.
2. Seyam A. M., “Structural Design of Woven Fabrics, Theory and Practice”, Textile Institute, Manchester, 2002.
3. Georner D, “Woven Structure and Design, part 1: Single Cloth Construction”, WIRA, U.K., 1986
4. Georner D, “Woven Structure and Design, Part 2: Compound Structures”, WIRA, U.K., 1989