

FIRST ALLIED COURSE I - FIBER TO FABRIC

Unit I - Yarn Manufacturing

Classification of fibres – Physical and Chemical properties of fibre and their end uses – Cotton, Wool, silk, Viscose Rayon, Nylon, Polyester, Objectives and process sequence – Blending- Mixing – Opening and cleaning – Carding – Doubling – Combing – Drawing – Roving – Spinning – Winding. Manufacturing process – Polyester, viscose rayon, nylon, Blends and mixtures

Unit II – Yarn Classification

Simple Yarn – Cable, Ply and double Fancy yarn – Slub, flake, Spiral, knot or spot yarn – Count and twist – Optimum twist

Unit III – Woven Fabric Classification

Basic weaves – plain, twill and satin and their variations, Fancy weaves – pile, double cloth, swivel, lappet, leno, dobby and jacquard.

Unit IV – Knitted Fabric Classification

Weft Knitting – plain – Rib – Purl – Single jersey – Double jersey, Terry Interlock
Warp knitting - Tricot – Raschel – Simplex and milanese

Unit V - Special Fabric construction Techniques

Crocheting, tatting, knotting, Non Wovens, felting, braiding, laminating bonding, netting and lace making.

References:

1. Corbman B.P Fibre to Fabric, International Students Edition Mc Graw Hill Book Co- Singapore, 2000.
2. J.L. Smith, Textile processing, Abhishek Publications, Chandigarh, 2003.
3. Gokarneshan U, Fabric Structure and Design, New age International Publishers 2004.
4. Kate Wells, Fabric Dyeing and Printing, Conran Octopus 2000.