

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E Semester: 3

Textile Production

Subject Code 132901
Subject Name Textile Fibers

Sr.No	Course contents
1.	Introduction to the linear polymer and raw material – DMT, TPA, MEG, Caprolactum. Process of polymerization and importance of Production process of PET polymer, Nylon 6, Nylon 66, Acrylic polymer, Polypropylene polymer etc.
2.	Basic concept related to the structure of Textile Fibres like wool, silk, linen etc.
3.	General Physical and Chemical properties of various textile fibres – Natural and Manmade fibres.
4.	Brief idea of processing of raw silk & Jute Outline of degumming methods for silk.
5.	General principles of manufacturing man made fibres by melt spinning, dry spinning and wet spinning.
6.	Outline of steps for the manufacture of polyamide, polyeaster, polyacrylics & polypropylene fibres.
7.	Introduction to new fibres like Tencel, Lycra, Aramide, Model etc.

Reference Books:

1. Introduction to Textile Fibres - H.V.Sreenivasmurthy
2. Textile Fibres – Dave & Sahasrabudhe(ATA Publ.)
3. Production of Synthetic Fibres- A.A.Vaidya
4. Man made Fibres – R.W.Moncrieff.
5. Textile Fibres (Volume I) – Dr.V.A.Shenai.