

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Semester: II

M.E. TEXTILE ENGINEERING

Subject Name: **Modern Fiber Technology (Major Elective-II)**

Sr.No	Course content
1.	An Introduction to the Structural Principles involved in the Production and Properties of Solution-Spun Fibres.
2.	Overview of Acrylic Fibre Manufacturing Technologies-A Critique. Synthesis and Characterization of Fibre Forming Acrylonitrile Polymers. Spinning of Acrylic Polymers. Specially Acrylic Fibres. Fundamental Analysis of Coagulation in Wet Spinning Process. Crimping and Cutting. Production of High-Bulk Acrylic. Alternate Routes for Manufacture of Cellulosic Fibres. Lyocell Fibres and Filaments. An overview of Acetate Fibres. Aramid Fibres.

Reference Books:

1. Production of Synthetic Fibres- A.A.Vaidya
2. Man made Fibres – R.W.Moncrieff.
3. Textile Fibres (Volume I) – Dr.V.A.Shenai.
4. Trends in Textile Fibres by V.K.Kothari –IIT Delhi
5. Structure of Textile Fibres and Structural dependence of their mechanical properties by V.B.Gupta-IIT Delhi
6. New developments in Production of Acrylic fibres by Pushpa Bajaj –IIT Delhi