

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E Semester: 4

Textile Production

Subject Code 142802

Subject Name Fibre Physics

Sr.No	Course contents
1.	Molecular architecture, Molecular packing in crystalline and amorphous regions, Glass transition, Crystallization, Physical structure of principal natural & man-made fibres, Methods of investigating fibre structure e.g. X-ray diffraction, Optical & electron Microscopy, I. R. Absorption, Thermal methods, A detailed of fibre properties such as moisture relations, mechanical properties, thermal properties, optical properties, electrical properties, fibre friction, Relation between fibre properties & structure of fibres, High performance fibres.

Reference Books:

1. Textile Fibre - Morton & Hearl
2. Textile Science - G. Ghol
3. Microscopy Of Textile Fibre - Greaves & Saville