

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Semester: III

Textile Engineering

Subject Name: **Evaluation of Textile Materials**

Subject Code: **732501**

Sr. No	Course content
1.	Characterization of Fibre: Birefringence, sonic modulus, density measurements, thermal analysis, X-rays Yarn Testing: Tensile properties, hairiness, yarn evenness, high speed tensile testing of yarn Evaluation of spliced yarn and sized yarn.
2.	Testing of technical textile; coated fabrics, geo-textiles, filter fabrics.
3.	Comfort properties of fabric, water repellency. Computer colour matching, measurement of U-V protective character of textile material.

Text Books:

1. Physical Properties of Textile Fibers, Morton & Hearle
2. Testing & Quality management, V.K.Kothari
3. Fabric Testing Hu Science of Clothing Comfort, Apurva Das
4. Physical Testing, Saville
5. Handbook of Technical Textile Horrocks, Handbook of Nonwoves

Reference Books:

1. Testing: S.K.Basu, SITRA
2. Physical Testing: Booth