

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Semester: III

Textile Engineering

Subject Name: **Advanced Testing and Quality Management in Textiles**

(Major Elective - IV)

Subject Code: **732503**

Sr. No	Course content	Hrs
1.	Advanced material testing like NMR, XRD, Infrared Spectrum, DSC, birefringence, sonic modulus, etc.	7
2.	Advanced fibre testing like applications of HVI, AFIS etc. Single fibre strength testers, testing for filaments.	7
3.	Advanced testing for yarns like friction of yarn, applications of Tensojet, Classimat etc. Modern methods of Testing for irregularities and interpretation of data.	7
4.	Advanced fabric testing. Serviceability testing, testing for comfort properties,	7
5.	Fabric Objective evaluation methodologies like Kawabata & FAST	6
6.	Testing for Technical textiles	8
7.	Quality management in textiles	4

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