

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. SEMESTER: V

TEXTILE PRODUCTION

Subject Name: **Analytical Textile Chemistry – I**

Subject Code: **152803**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
3	0	3	6	70	30	50

Sr. No	Course content
1.	Analysis of Coal, Thermic Fluid and Furnace Oil.
2.	Analysis of antistatic oils & lubricating oils.
3.	Analysis of water: Raw water, Softened water, Effluents.
4.	Air pollution & analysis.
5.	Analysis of oils, fats, waxes, Sulphonated oils and soaps.
6.	Identification and analysis of various textile fibres and blends.
7.	Analysis of sizing agents.
8.	Analysis of size % add-on and residual size content for cotton as well as synthetic textiles.
9.	Identification of stains and their removal.
10.	Instrumental methods used in textile analysis such as Chromatography, Ion-exchange, Electrophoresis, Viscometry, Potentiometric titration, Various spectro photometers, etc.

Practical and Term Work:

Based as per the syllabus prescribed.

Reference Books:

1. Evaluation of Textile Chemicals, Shenai, V. A.
2. Process House Laboratory, A Hand Book, Luthra & Deshpande.
3. Treatment of Textile Processing Effluents Including Analysis, Manivasakam.
4. Profiles in analysis of chemicals- N. F. Desai.