

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. SEMESTER: V

TEXTILE PRODUCTION

Subject Name: **Technology of Dyeing – I**

Subject Code: **152802**

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.	Importance of dyeing, History of dyeing, Classification of dyeing, Theories of dyeing.
2.	Application mechanism & properties of direct, Reactive, Azoic, Vat, Solubilised vat, Sulphur, Basic dyes, etc on cellulosic fibre fabrics.
3.	After treatments of direct & basic dyes.
4.	Dyeing of oxidation colours e.g. - Aniline black & Mineral khakhi on Cellulosic fibres.
5.	Phthalocyanine colours - Phthalogen blue dyeing on cotton.
6.	Denim processing.
7.	Faults in dyeing, Their rectification and prevention in above dyeing methods, Use of dye bath assistant and auxiliaries for leveling of shades & migration of dyes.

Practical and Term Work:

Based as per the syllabus prescribed.

Reference Books:

1. Chemistry of dyes & principles of dyeing.- Shenai V. A.
2. Technology of dyeing.- Shenai V. A.
3. Dyeing & chemical technology of textile fibres, Trotman E. R.
4. Cellulosic dyeing- John Shore