

# GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. SEMESTER: VI

Textile Production

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

Subject Code: **162801**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
4	0	3	7	70	30	50

Sr. No	Course Content	Total Hrs.
1.	<b>Machines used for dyeing:</b> Principle, materials of construction and working of various dyeing machineries for fibre, yarn and fabrics.	08
2.	Dyeing of wool and silk fibres with acid, acid mordant, premetallised, basic, direct, reactive dyes etc.	06
3.	Dyeing of nylon with acid, metal complex, reactive, disperse dyes etc.	06
4.	<b>Dyeing of polyester:</b> Mechanism, processes, dyeing of various types of polyester viz. textured, micro etc.	08
5.	Dyeing of CDPET with different dyes.	04
6.	Dyeing of acrylics with basic/cationic dyes.	04
7.	Dyeing of blends such as polyester/cotton, polyester/viscose rayon, polyester/wool etc.	06

## Practical:

This shall be based on prescribed syllabi.

## Text Books:

1. Chemistry of dyes & principles of dyeing.
2. Technology of dyeing.

By -Shenai V. A.

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**Reference Books:**

1.	Dyeing & chemical technology of textile fibres.	Trotman E. R.
2.	Wool dyeing	Lewis, D.M.
3.	Chemical principles of synthetic fibre dyeing.	Burkinshaw