

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Diploma in Textile Processing Technology

Semester: 3

Subject Code 332803

Subject Name TECHNOLOGY OF PRINTING-I

Sr. No.	Course content
1.	<b>Introduction to Textile Printing :</b> 1.1 Nature, Role and scope of Textile Printing. 1.2 Basic principles of Textile Printing. 1.3 Role of each stage of Textile Printing.
2.	<b>Methods of Textile Printing :</b> 2.1 Classification of Textile Printing methods. 2.2 Working Principle, Equipments details and Application of each method. 2.3 Comparison of Textile Printing method.
3.	<b>Styles of Textile Printing :</b> 3.1 Classification of styles of Textile Printing. 3.2 Principle and chemical operation involved in executing each style of printing. 3.3 Thickening agents, Fixing chemicals and auxiliaries used in various styles of printing. 3.4 Preparation of prints with various discharge and resist style on wool, silk and cotton. 3.5 Know the relevance of above styles with cloth structure and end uses. 3.6 Garments' Printing Techniques.
4.	<b>Textile Printing Thickeners :</b> 4.1 Principle of Thickener. 4.2 Various thickeners and its classification. 4.3 Properties of thickeners. 4.4 Selection of thickeners for various dyes.
5.	<b>Printing of various natural fibres with different dyes :</b> 5.1 Printing of Direct dye on cotton / Viscose. 5.2 Printing of Reactive dye on cotton / Viscose. 5.3 Printing of Vat / Solublised Vat dye on cotton / Viscose. 5.4 Printing of Azoic dye on cotton / Viscose. 5.5 Printing of Pigment dye on cotton / Viscose. 5.6 Printing of Acid Dye on Wool / Silk. 5.7 Printing of Basic Dye on Wool / Silk. 5.8 Printing of Reactive Dye on Wool / Silk. 5.9 Printing of Metal Complex Dye on Wool/Silk.
6.	<b>Methods of Fixation :</b> 6.1 Star Ager 6.2 Curing machine 6.3 Rapid Ager

**REFERENCE BOOKS:**

<b>Sr. No.</b>	<b>Name of Books</b>	<b>Authors</b>
<b>1.</b>	Introduction to Textile Printing	W. Clerk
<b>2.</b>	Screen Printing	W. Miles
<b>3.</b>	Technology of Printing	Dr. V. A. Shenai
<b>4.</b>	Textile Printing	D. G. Kale
<b>5.</b>	The Glimpse of Chemical Processing	R. R. Chakravorty
<b>6.</b>	Textile Printing	Knetch & Forthergill