

**GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT
COURSE CURRICULUM**

**COURSE TITLE: TEXTILE PROCESSES-III
COURSE CODE: 3345904**

COURSE CODE	COURSE TITLE	TEACHING SCHEME/WEEK			CREDIT S (L+T+P)	EXAMINATION SCHEME				
		L	T	P		THEORY		PRACTICAL		GRAND TOTAL
						ESE	PA	ESE	PA	
3345904	TEXTILE PROCESS - III	4	0	3	7	70	30	20	30	150

Sr.No	Course content
1.	History of Printing and Definition.
2.	Various stages of Printing.
3.	Brief outline of Methods of Printing and Styles of Printing.
4.	Brief stages of Block Printing, Stencil Printing, Hand painting, Screen printing – semi Automatic, fully automatic, rotary screen printing machines, Roller printing, Spray Printing, Flock Printing, Transfer printing.
5.	Classification of thickening agents & their selection-main properties.
6.	Printing of cellulose fiber fabrics with Direct, Vat, Solubilised vat, azoic, reactive and pigments-khadi.
7.	Printing of Acetate fabric & Polyester fabric with Disperse dyes.
8.	Printing of Nylon Fabric with Acid and Premetallised acid dyes.
9.	Printing of Wool and Silk with Acid, Premetallised Acid and Reactive dyes.
10.	Printing of Acrylic fabrics with modified Basics, Disperse & pre-metallised acid dyes.
11.	Printing of velvet & carpet fabrics.

12.	Dye fixation methods and conditions for different fabrics.
13.	Finishing---General mechanical & chemical finishing—calendaring, decatizing – softening, delustreing, creping.

Practical:-

1. Printing of cellulose fabrics with Direct, Vat, Azoic, solubilised vat, Reactive, Pigments, Rapid fast.
2. Printing of nylon fabrics with Acid & Premetallised acid dyes.
3. Printing of polyester fabric with disperse dyes.
4. Printing of cationic dye able polyester.
5. Printing of Acrylic fabric with modified basic dyes, disperse & acid dyes.
6. Printing of Wool & Silk with Acid, Premetallised acid, Reactive dyes.
7. Printing of Acetate rayon fabric with disperse dyes.
8. Printing of various fibre fabrics with pigment and khadi.
9. Brasso style of printing on blended fabric.
10. Flock printing.
11. Practical on Discharge, Resist, Dyed and other modern styles of printing.

REFERANCE BOOKS:

1. Technology of printing by V.A.Shenai
2. Introduction Textile Printing by W. Clerk.
3. Technology finishing by A.J. Hall.
4. Technology finishing by J.T. Marsh.