



GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Design Syllabus (Textile Design)

Subject Code: 10140204

Subject Name : Dyeing & Printing

WEF Academic Year:	2024-25
Semester:	4
Category of the Course:	PCC

Prerequisite:

Rationale:	The importance of color in fabric and products cannot be overemphasized dye style and dying are as old as textiles themselves. The art of printing color on to fabrics originated thousands of years ago and has its strong root in India in ages. Even Dying and Printing industries are booming according to the trends and fashion.
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Course Outcome:

After Completion of the Course, Student will able to:

No	Course Outcomes	RBT Level*
01	Understanding of the dying process.	U R
02	Importance of pre and post treatments given to fabric for dying and printing.	U
03	Tools and Equipment used for dying and Printing.	U A

*Revised Bloom's Taxonomy (RBT)

Teaching and Examination Scheme:

Teaching Scheme (In Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
L	T	PR		C	Theory		Tutorial/Practical	
			ESE (E)		PA/CA (M)	ESE (V)	PA/CA (I)	
0	2	4	4	0	30	50	20	100



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Course Content:

Unit No.	Course Content	No. of Hours	% of Weightage
1	Unit 1:- Introduction to Dying Pre and Post treatment of the fabric before dyeing and printing the gray fabric. <ul style="list-style-type: none">● Scouring● Singeing● Desizing● Bleaching● Mercerizing	30	33
2	Unit 2:- Introduction to Printing Various printing methods. Discharge Printing- Bleaching Direct Printing- Block, Stencil Digital Printing- Ink Jet Resist Printing- Batik & Tie-dye Heat transfer- Flock, Photographic printing, Burnout printing. Pre & Post Treatments of Printing Fabric.	30	33
3	Unit 3 Color Problems Factors affecting color fastness. common problems and defects in dyed and printed fabrics. Printing Stencil Printing – Introduction, designs for stencil, preparation of stencils, stencil printing process. Block Printing – Introduction, Materials used, procedure for block printing on cotton fabric.	30	34
Total		90	100

Suggested Specification Table with Marks :

Distribution of Marks (in %)					
R Level	U Level	A Level	N Level	E Level	C Level
30	15	15	15	10	15



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Where R: Remember; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create (as per Revised Bloom's Taxonomy)

References/Suggested Learning Resources:

(a) Books:

1. Clarke, W. 1974. *An Introduction to Textile Printing*. London, Newness Butter Worth.
2. Anderson, F. 1974. *Tie-dyeing and Batik*. London, Octopus Editorial Production by Berkeley Publishers Ltd.
3. Gohl, E. P.G. and Vilensky, L. D. (1983), *Textile Science*, Melbourne, Longman Cheshire House
4. Shenai, V.A (1991) *Chemistry of organic Textile Chemicals*, Bombay, Sevak Publication.

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