

4512 - DYEING & PRINTING									
Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)				
Lectures	Practical	Credit			Theory		Practical Ex.	Total	
2	3	5	25	25	3 Hrs	100	-		150
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
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Rationale - Students gain knowledge on the techniques of dyeing and printing, thus they can use the various methods of dyeing and printing to create their own designs on textiles and garments.

COURSE CONTENTS		Hrs	Mks
1. INTRODUCTION		2	2
To dyeing and printing			
2. CLASSIFICATION OF DYES		4	18
Natural dyes, synthetic dyes - basic, acidic, direct, mordant, azoic, disperse, sulfur, vat, reactive, pigment dyes and optical brighteners.			
3. DYEING PROCEDURES		10	40
Fibre, yarns, fabric and garment dyeing. Resist method of dyeing (Tie & dye, batik). Problems in dyeing and their remedies.			
4. PRINTING METHODS		10	40
Block printing, roller printing, screen printing, stencil printing, transfer printing, jet ray painting, fabric painting. Problems in printing and their remedies.			
5. DYEING & PRINTING		6	-
Dyeing and printing of one finished article.			
Total		32	100

PRACTICALS

They shall be based on the prescribed syllabus and a journal shall be maintained with the samples of tie and dye and batik, and other printing techniques.

REFERENCE BOOKS

1. Techniques of Bleaching & Dyeing of Textile Fibres by R.R. Chakravorthy & S.S. Trivedi Mahajan Brothers, Supermarket Basemeat, Ashram Road, Ahmedabad - 09
2. Dyeing of wool, silk & man made fibres by R.S. Prayag, court presses Job Branch, Salem - 01
3. Dye Chemistry by Hans Edvard Heiz David & Louis Blangey - Interscience Publishers Inc N. Y., 215, 4 th Avenue, N.Y.-3 N.Y
4. Dyes & Fabrics by the Thames & Hudson Manual Joyce storey, Thames & Hudson Ltd, London
5. Textile Printing by Joyce storey, Thames & Hudson Ltd, London
6. A Guide to Printing Techniques by Maohaeu Oyabu - Mahajan Bros, Textile Book Publication, Supermarket Base, Ashram Road, Ahmedabad
7. Textile Dyeing Simplified by Nora Proud, Arco Publication Co Inc N.Y. 219 Pack Avenue South, N.Y., N.Y 10003.
8. The Ashford Book of Dyeing by Ann Milner B.T. Batsford Ltd. London