

PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Textile Engineering

Faculty Name: Ms. Astha

Subject Name: - Textile Chemical Processing-II

Year/Semester: - 2nd / 4th

Subject Code: - PCC-TEX-208A

Unit No.	Topic of the Lecture	Hours	Total Hours
Unit I	Printing: Introduction to printing methods	1	15
	Block printing method and its advantages and disadvantages	2	
	Screen printing and its advantages and disadvantages	2	
	Roller printing and its advantages and disadvantages	2	
	Various styles of printing like Direct, Discharge and Resist styles on natural, man made and blended textile	1	
	Ingredients of print paste	1	
	Classification and mechanism of working of thickeners	2	
	Transfer Printing: Types, mechanism of transfer printing and machineries	2	
	Pigment Printing: Mechanism and recipe details of pigment printing	2	
Unit II	Introduction to Finishing	1	17
	Mechanical Finishing: Calendaring - its types, construction and function of various calendaring m/cs.	2	
	Sanforizing - method, mechanism and machineries involved	2	
	Sueding /raising	1	
	Napping and Shearing finishes	1	
	Foam finishing technology	1	
	Chemical Finishing: Problem of creasing, anti-crease finish on cotton.	1	
	Drawback and advantages associated with use of various anti-crease chemicals	1	
	Water repellency	1	
	Water repellent finish	1	
	Softeners and their application	2	
	Flame proofing and its evaluation.	2	
Silk Finishing: Weighting of silk and Scroop finish	1		
Unit III	Developments in preparatory and dyeing: Continuous pre-treatment	2	9
	Continuous dyeing	2	
	Mass coloration principle, technology and different methods	2	
	Problems in dyeing and their solutions	1	
	Tie and dye	1	
	Batik printing	1	
Unit IV	Ecofriendly processing	2	8
	Effluent generated from textile processing and its treatment	2	
	Light fastness, Rubbing fastness	2	
	Sublimation fastness, Perspiration fastness, Washing fastness properties evaluation	2	