

LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY, ITT, CHOUDWAR

SUBJECT: TEXTILE CHEMICAL PROCESSING -II **Periods:** 4/Week **SEMESTER:** 4th

NAME OF FACULTY: Pravat Kumar Sahoo

No. of weeks/Sem as per SCTE&VT, Odisha Textile Tech/ Engg Syllabus: 15

Week	Class Day	Theory / Practical Topics
1st	1 st	Revision of TCP-I
	2 nd	Introduction to Manmade fiber dyeing
	3 rd	Different methods for Dyeing of polyester
	4 th	Dyeing of polyester with disperse dyes Carrier, method
2nd	1 st	Dyeing of polyester HTHP method
	2 nd	Method of dyeing of polyester thermosol method.
	3 rd	Dyeing of cationic dye-able polyester blended fabric,
	4 th	Dyeing of blended fabric, (P/C, P/W)
3rd	1 st	Dyeing of acrylic fiber fabric
	2 nd	Doubt clearing class/ Module revision.
	3 rd	Introduction to textile printing
	4 th	Different stages of printing, printing ingredient
4 th	1 st	Classification and properties of different thickeners used in printing
	2 nd	Details of printing paste preparation
	3 rd	After treatment of printed goods
	4 th	Detail study about different styles of printing
5 th	1 st	Brief study on carbonized and burnt out style
	2 nd	Study about different methods of printing
	3 rd	Detail study on block printing, stencil printing.
	4 th	Study of screen printing and the preparation of screen
6 th	1 st	Mechanism of Rotary and flat bed screen printing
	2 nd	Advantages and disadvantages of screen printing, screen printing defects
	3 rd	Study of roller printing
	4 th	Different rollers used in textile printing , methods of roller engraving
7 th	1 st	Roller print designs, advantages and disadvantages, defects
	2 nd	Printing recipes for different styles and methods
	3 rd	Comparative study of different methods of printing
	4 th	Machineries used in textile printing
8 th	1 st	Study of transfer printing
	2 nd	Brief idea on digital printing
	3 rd	Study of flock, velvet, rubber, 3D printing
	4 th	New development in textile printing

9 th	1 st	Printing of cotton fabric with suitable dyes.
	2 nd	Printing of wool/silk fabric with suitable dyes.
	3 rd	Printing of nylon fabric with suitable dyes.
	4 th	Printing of polyester fabric with suitable dyes.
10 th	1 st	Doubt clearing/ short fall class.
	2 nd	Objectives of Textile finishing
	3 rd	Study on different types of finishing.
	4 th	Idea on mechanical finishing
11 th	1 st	Study on calendaring process
	2 nd	Different types of smooth finishes
	3 rd	Working mechanism of stenter machine
	4 th	Study of sunforization method
12 th	1 st	Study on zero-zero finish
	2 nd	Study of durable press finish
	3 rd	Recent developments in mechanical finishing machine
	4 th	Brief idea on chemical finishing
13 th	1 st	Methods of application of crease resistance finish,
	2 nd	Methods of application of water proof and repellent finish
	3 rd	Methods of application of flame proof and repellent finish
	4 th	Study on wool carbonization
14 th	1 st	Study of stone wash on denim fabric
	2 nd	Brief idea on eco friendly textile finishing
	3 rd	Brief study on antimicrobial finish
	4 th	Mechanism of mercerization
15 th	1 st	Need of washing and drying of textile goods
	2 nd	Working principle of different washing machines
	3 rd	Study of different dryers and methods of drying
	4 th	Doubt clearing/ Revision

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