

LESSON PLAN

Name of Faculty : Rajesh kalra

Discipline : Textile processing

Semester : 3rd

Subject : technology of bleaching - 1

Lesson plan duration : 15 weeks

Work load (lecture / practical) per week (in hours):Th = 3 per week/pr=one(of three periods)

WEEK	THEORY		PRACTICAL	
	Lecture day	TOPIC (INCLUDING ASSIGNMENT/TEST)	Practical day	TOPIC
1 st	1	Natural and added impurities	1 st	Desizing of cotton by rot steep method
	2	Natural and added impurities		
	3	Singeing , objective and working of singeing machine		
2 nd	4	Singeing , objective and working of singeing machine	2 nd	Desizing of cotton by acid steep method
	5	Singeing , objective and working of singeing machine		
	6	Desizing , purpose and methods		
3 rd	7	Desizing , purpose and methods	3 rd	Desizing of cotton by enzyme steep method
	8	Desizing , purpose and methods		
	9	Principle and process of scouring of cotton		
4 th	10	Principle and process of scouring of cotton	4 th	Sessional test
	11	Test		
	12	test		
5 th	13	Principle and process of scouring of cotton	5 th	To scour given cotton sample
	14	Principle and process of scouring of cotton		
	15	Scouring of coloured woven goods		

WEEK	THEORY		PRACTICAL	
	Lecture day	TOPIC (INCLUDING ASSIGNMENT/TEST)	Practical day	TOPIC
6 st	16	Description and working of high pressure kier	6 th	To bleach given cotton sample with bleaching powder
	17	Description and working of high pressure kier		
	18	Description and working of J-box machine		
7 nd	19	Test	7 nd	Sessional test
	20	Description and working of vapour loc machine		
	21	Washing and Scouring		
8 rd	22	Different washings machines	8 rd	To bleach the scoured sample of cotton with sodium hypo chlorite
	23	Different washings machines		
	24	Bleaching		
9 th	25	Process of bleaching of cotton with bleaching powder	9 th	To bleach the scoured sample of cotton with hydrogen peroxide
	26	Process of bleaching of cotton with bleaching powder		
	27	Process of bleaching of cotton with sodium hypochlorite		
10 th	28	Process of bleaching of cotton with sodium hypochlorite	10 th	To bleach given sample of cotton with sodium chlorite
	29	Process of bleaching of cotton with hydrogen peroxide		
	30	Process of bleaching of cotton with hydrogen peroxide		

WEEK	THEORY		PRACTICAL	
	Lecture day	TOPIC (INCLUDING ASSIGNMENT/TEST)	Practical day	TOPIC
11 th	31	Process of bleaching cotton with hydrogen peroxide	11 th	To Mercerize the given cotton fabric sample
	32	test		
	33	Process of bleaching of cotton with sodium chloride		
12 th	34	Effect of ph on bleaching	12 th	3th sessional test
	35	Advantage and disadvantage of various bleaching agent		
	36	Drying machine cylinder drying steuter drying		
13 th	37	Drying machine Chomber drying	13 th	To draw line diagram of Drum dryer (horizontal or vertical)
	38	Mercerization		
	39	Fundamentals of mercerization		
14 th	40	Physical and chemical change in mercerization	14 th	To draw line diagram of Hot flue dryer
	41	Yarn mercerization machine		
	42	Fabric mercerization machine		
15 th	43	Fabric mercerization machine	15 th	To draw line diagram of Buti drum dryer
	44	Fabric mercerization machine		
	45	Fabric mercerization machine		

