

Lesson Plan

Name of Faculty : Mohit Dhingra

Discipline: Textile Technology

Semester: 3rd

Subject: **WEAVING TECHNOLOGY-I**

Lesson Plan Duration: 15 weeks

Work Load (Lecture / Practical) per week (in hours): Th = 3 per week / pr = 4

Week	Theory		Practical	
	Lecture day	Topic (including assignment / test)	Pr.day	Topic
1 st	1 st	History of weaving	1 st	
	2 nd	Terminology (winding and loom)		
	3 rd	Introduction to handloom, power loom		
2 nd	4 th	Introduction to different types of healds,	2 nd	
	5 th	Introduction to different types of reeds and shuttles		
	6 th	Introduction to types of sheds-their merits and demerits		
3 rd	7 th	Different Sheds merits and demerits	3 rd	
	8 th	Tappet shedding mechanism and existing motion (for tappet loom)		
	9 th	Introduction to Tappets Construction of tappets		
4 th	10 th	Heald reversing motion Timing of shedding motion early and late shedding	4 th	
	11 th	Calculations regarding healds and reeds		
	12 th	Introduction to various parts of picking Mechanism		
5 th	13 th	picking Mechanism and their adjustment	5 th	
	14 th	Mechanism of over pick motions. With merits and demerits		
	15 th	Mechanism of under pick motions. With merits and demerits		

6 th	16 th	Varying the intensity of picking with relation to velocity of shuttle	6 th	
	17 th	Timing of picking motion Early and late picking Faults occurring in both types of picking and their remedies		
	18 rd	Sessional 1		
7 th	19 th	Mechanism of beating up motion	7 th	
	20 th	Eccentricity of slay methods of finding eccentricity of slay		
	21 th	Various types of take up motions		
8 th	22 th	Study of 5 wheel take up motion	8 th	
	23 th	Study of 7 wheel take up motion		
	24 th	Study of Continuous take up motion		
9 th	25 rd	Concept of standard wheel, change wheel and ratchet wheel and dividend of a take up motion	9 th	
	26 th	Calculations in take up motion for inserting specific number of picks/unit space		
	27 th	Various types of let off motions		
10 th	28 th	Study of various parts an working of negative let off motion	10 th	
	29 th	Study of various parts of positive let off motion		
	30 th	Study working of positive let off motion		
11 th	31 th	Comparison of negative let off and positive let off motion	11 th	
	32 th	Various types of weft fork motion.		
	33 th	Study of side weft fork motion		
12 th	34 th	Study of Centre weft fork motion, Brake motion	12 th	
	35 th	Sessional 2		
	36 th	Shuttle speed checking motion		

13 th	37 th	Study of loose reed motion	13 th	
	38 th	Study of Fast reed motion		
	39 th	Temples- Their types and their use in relation to different fabrics		
14 th	40 th	Various types of materials used for picking stick	14 th	
	41 th	Various types of materials used for slay		
	42 th	Various types of materials used for Shuttle		
15 th	43 th		15 th	
	44 th	Timing of different motion of loom		
	45 th	Sessional 3		
		Timing of different motion of loom.		
		Calculations relating to speed of loom		
		Production of loom in terms of weight of cloth produced		
		Production of loom in terms of weight of cloth produced		
		Production of loom in terms of length of cloth produced/shift and efficiency of the Loom		
		Production of loom in terms of length of cloth produced/shift and efficiency of the Loom		

