

LESSON PLAN		
Sem./ Branch: 3 <sup>rd</sup> Sem./ Text. Tech.		Duration: 15 weeks
Subject: Weaving Technology-I		Name of Faculty: Krishan Chahal
Week	Theory Topics (4 Periods/ Week)	Practical (4 Periods/ Week)
1 <sup>st</sup>	Introduction to Weaving, History, Terminology, Introduction to Handloom and Power Loom.	Study of different parts of power loom and passage through it.
2 <sup>nd</sup>	Classification of Weaving Motions with objects, <b>Shedding:</b> Types of sheds with merits and demerits. Calculation of Healds and Reed.	Study of Drawing, Denting and Gaiting-up of the beam on power loom.
3 <sup>rd</sup>	Tappet Shedding mechanism, construction of tappets, Healds reversing motions, Early shedding and late shedding.	Study of different parts and working of Tappet Shedding mechanism.
4 <sup>th</sup>	<b>Picking:</b> Mechanism of over and under pick motions, causes of shuttle flying out, early picking and late picking.	Study of different parts and working of Over Picking mechanism.
5 <sup>th</sup>	<b>Beating-up:</b> Mechanism, Slay eccentricity.	Study of different parts and working of Under Picking mechanism.
6 <sup>th</sup>	<b>1<sup>st</sup> Sessional test</b>	
7 <sup>th</sup>	<b>Take-up motion:</b> Types, Study of 5-wheel and 7-wheel take-up motion, Dividend of 5-wheel.	Study of different parts and working of Beating-up mechanism.
8 <sup>th</sup>	Concept of standard wheel and change wheel, Calculations for PPI, Continuous take-up motion.	Study of different parts and working of 5-wheel take-up motion.
9 <sup>th</sup>	<b>Let-Off Motion:</b> Types, Study of negative and positive let-off motion, Comparison of negative let-off and positive let-off motion.	Study of different parts and working of 7-wheel take-up motion.
10 <sup>th</sup>	<b>Weft fork Motion:</b> Types, Study of side weft fork and centre weft fork motion, Brake motion.	Study of different parts and working of negative let-off motion.
11 <sup>th</sup>	<b>2<sup>nd</sup> Sessional test</b>	
12 <sup>th</sup>	<b>Warp Protecting Motions:</b> Types, Study of loose reed and fast reed motion.	Study of different parts and working of side weft fork motion.
13 <sup>th</sup>	<b>Temples:</b> Types and uses in relation to different fabrics, Materials used for picking stick, slay, shuttle.	Study of different parts and working of loose reed motion.
14 <sup>th</sup>	Timing of different motion of loom, Calculations relating to speed of loom.	Study of different parts and working of fast reed motion.
15 <sup>th</sup>	<b>3<sup>rd</sup> Sessional test</b>	
16 <sup>th</sup>	Production of loom in term of length of cloth produced/ shift, Efficiency of the Loom.	To calculate the production in meters per shift of 8 hours by assuming suitable data.