

<b>LESSON PLAN</b>		
<b>Sem./ Branch:</b> 5 <sup>th</sup> Sem./ Text. Tech.		<b>Duration:</b> 15 Weeks
<b>Subject:</b> Weaving Technology-III		<b>Name of Faculty:</b> Krishan Chahal
<b>Week</b>	<b>Theory Topics (3 Periods/ Week)</b>	<b>Practical (5 Periods/ Week)</b>
1 <sup>st</sup>	Objects of Warp Stop Motion, Working of Mechanical and Electric Warp Stop Motion.	Sketching different parts of Mechanical Warp Stop Motion.
2 <sup>nd</sup>	Temples- Types and use in relation to different fabrics, Types of shuttle box and shuttle with respect to picking method and width of loom.	Sketching different parts of Electrical Warp Stop Motion.
3 <sup>rd</sup>	Types of Looms, Introduction to Automatic and Shuttle-less Looms, Disadvantages of Shuttle Looms,	Study of different types of Temples in relation to different fabrics.
4 <sup>th</sup>	Weft Feelers-Mechanical, Electrical, Photo electric with advantages/disadvantages of each. Introduction to Shuttle Change Loom with its limitations.	Study of different types Weft Feelers.
5 <sup>th</sup>	Working of Auto Pirn Change Mechanism with neat sketch, features and limitations of automatic loom.	Study of constructional details and working of Automatic Pirn Changing Mechanism with neat sketch.
6 <sup>th</sup>	<b>1<sup>st</sup> Sessional test</b>	
7 <sup>th</sup>	Types of shuttle-less looms and comparison with power loom, Rate of weft insertion in different types of weft insertion methods, Weft accumulator or weft measuring motion.	Study of different parts and features of Gripper Loom.
8 <sup>th</sup>	Gripper weft insertion method, Dimensions of gripper, Main Features of Gripper Loom.	Study of different parts and features of Rapier Loom.
9 <sup>th</sup>	Rapier weft insertion method, Classification of Rapiers, Concept of Dewas and Gabler Rapiers.	Study of different parts and features of Air-Jet Loom.
10 <sup>th</sup>	Pneumatic weft insertion method (Air-Jet), Main Features of Air-Jet Loom, Hydraulic weft insertion method (Water-Jet), Main Features of Water-Jet Loom, Requirement of yarn for Water-Jet Loom.	Study of different parts and features of Water-Jet Loom.
11 <sup>th</sup>	<b>2<sup>nd</sup> Sessional test</b>	
12 <sup>th</sup>	Purpose of Selvedges, Selvedge forming mechanism in Shuttle-less Looms, Leno and Tuck-in selvedges.	Study of formation of Leno and Tuck-in selvedges.
13 <sup>th</sup>	Introduction to Terry Pile Weaving, Features of Terry Loom	To study the mechanism of formation of piles in terry weaving.
14 <sup>th</sup>	Fabric defects their causes and remedies, Calculations relating to production and efficiency of loom, weight of warp and weft required per shift.	Listing out the Fabric defects due to raw material, mechanism and other miscellaneous reasons.
15 <sup>th</sup>	<b>3<sup>rd</sup> Sessional test</b>	
16 <sup>th</sup>	Factors effecting the production and efficiency in the weaving and preparatory department.	Listing out the factors effecting the production and efficiency in the weaving department.