

Lesson Plan

Name of Faculty : Rakesh Jindal

Discipline: Textile Technology

Textile Technology Semester: 5th

Subject: AFM

Lesson Plan Duration: 15 weeks (Aug 2025 – Dec 2025)

Week	Lecture	Work Load (Lecture / Practical) per week (in hours): Th = 3 per week / Practical 4 per week
1	1	Warp Stop Motion:
	2	Objectives, of warp stop motion.
	3	types and principle of working of warp stop motion.
2	1	Temples: Purpose and different types
	2	Temples: in relation to different fabrics.
	3	Weft Feelers: Purpose
3	1	different types of Weft Feelers
	2	(Mechanical, Electrical, Photo electric) with their advantages & disadvantages
	3	Mechanical Weft Feelers, Electrical Weft Feelers
4	1	Photo electric advantages & disadvantages of different Weft Feelers
	2	Introduction to automatic loom
	3	Revision
5	1	Sessional - I
	2	working of automatic pirn change mechanism, types of shuttle less loom
	3	Rate of weft insertion in different types of looms,
6	1	weft accumulator or weft measuring motion.
	2	Introduction to Projectile or Gripper Loom, dimensions of gripper
	3	Main Features of Gripper Loom.
7	1	specifications of Gripper Loom.
	2	Introduction to Rapier Loom,
	3	Rapier weft insertion method
8	1	Classification of rapier loom
	2	Concept of Dewas
	3	Revision
9	1	Sessional - II
	2	Gabler Rapiers
	3	Main Features of rapier loom.
10	1	specifications of rapier loom.
	2	Introduction to Air Jet Loom
	3	passage of material and working of air jet loom,
11	1	main features of Air-Jet loom
	2	Purpose of Selvedges
	3	Different types of selvedges formed in shuttle less looms.

12	1	Introduction to Terry Pile Weaving
	2	Features of a Terry Loom.
	3	Revision
13	1	Sessional - III
	2	Fabric defects
	3	Fabric defects their causes
14	1	Fabric defects their remedies.
	2	Factors effecting the production in weaving department.
	3	Factors effecting the efficiency in weaving department.
15	1	Calculations relating to production of loom.
	2	Calculations relating to efficiency of loom.
	3	Revision