

LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY I. T.T CHOUDWAR

Subject: Advance Textile manufacture Semester: 6th Periods: 4/week

Name of Faculty: Sri Rajiblochana Sahoo

No. of weeks/sem. as per SCTE&VT Odisha, Textile Tech./ Engg. : 15

Week	Class Day	Theory / Practical Topics
1st	1 st	Brief revision on conventional loom
	2 nd	Comparative study of shuttle and shuttle less loom
	3 rd	Introduction to non conventional loom
	4 th	Shuttle less loom and its importance in textile mill
2nd	1 st	Yarn preparation for shuttle less weaving
	2 nd	Yarn quality parameter for shuttle less loom
	3 rd	Need of shuttle less weaving
	4 th	Infrastructure requirement for modern weaving machine
3rd	1 st	Brief idea on rapier and projectile machine
	2 nd	Brief idea on fluid jet looms (Air jet)
	3 rd	Brief idea on fluid jet looms (water jet)
	4 th	Quality assessment for shuttle less loom
4 th	1 st	Revolution on loom automation
	2 nd	Basic concept of projectile loom
	3 rd	Weft package requirement for projectile
	4 th	Parts of projectile loom
5 th	1 st	Passage of material in a projectile weaving machine
	2 nd	Weft insertion mechanism for projectile loom
	3 rd	Working of match-cam beating
	4 th	Conventional selvedge vs non conventional selvedge
6 th	1 st	Brief idea on different types of non conventional selvedge
	2 nd	Types of selvedge in projectile weaving
	3 rd	Modern development in projectile weft insertion system
	4 th	Loom maintenance schedule
7 th	1 st	Brief idea about rapier weaving
	2 nd	Classification of rapier
	3 rd	Weft insertion mechanism on rapier

	4th	Rapier weaving cycle
8 th	1 st	Weft insertion mechanism for rigid rapier
	2 nd	Passage of material in rapier loom
	3 rd	Concept of flexible rapier
	4 th	Weft insertion mechanism for single rapier
9 th	1 st	Weft insertion mechanism for double rapier
	2 nd	Brief idea on telescopic rapier
	3 rd	Loom maintenance
	4 th	Selvedge formation in rapier weaving
10 th	1 st	Advantages of rapier weaving
	2 nd	Concept of WIR
	3 rd	Comparative study of projectile and rapier weaving
	4 th	Doubt clearing/ short fall class.
11 th	1 st	Brief idea on fluid jet weft insertion
	2 nd	Concept of air jet weaving
	3 rd	Air quality parameter
	4 th	Weft quality for air jet weaving
12 th	1 st	Passage of material in air jet loom
	2 nd	Weft measuring device
	3 rd	Terms related to air jet pick insertion
	4 th	Brief idea on confuser, profile reed
13 th	1 st	Difference between reed and profile reed
	2 nd	Weft stop motion working and principle
	3 rd	Selvedge formation in air jet weaving
	4 th	Weft insertion cycle in air jet weaving
14 th	1 st	Pick insertion cycle
	2 nd	Loom maintenance
	3 rd	Concept of water jet weaving
	4 th	Water quality parameter
15 th	1 st	Passage of material in water jet loom
	2 nd	Weft insertion cycle in water jet weaving
	3 rd	Comparative study of water and air jet loom
	4 th	Doubt clearing/ Revision