

LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY, ITT, CHOUDWAR

SUBJECT: YARN MANUFACTURE-I

Periods: 3/Week

SEMESTER:3rd

NAME OF FACULTY: PTGF/ Sri R L Sahoo

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

Week	Class Day	Theory / Practical Topics
1st	1 st	Basic concept of Textile
	2 nd	Introduction to Yarn manufacturing
	3 rd	Concept of natural fiber spinning
2nd	1 st	Study of cotton ginning
	2 nd	Different types of ginning methods
	3 rd	Study of MaCarthy gin, mechanism principle
3rd	1 st	Working principle of saw and roller gin
	2 nd	Brief idea on baling
	3 rd	Object and principle of mixing
4 th	1 st	Concept of bale opening
	2 nd	Preparation for mixing and blending
	3 rd	Scientific bale management system
5 th	1 st	Methods of blending and mixing
	2 nd	Machineries involved in bale mixing and blending
	3 rd	Calculation on blending
6 th	1 st	Concept of blow room
	2 nd	Process sequence in a blow room
	3 rd	Action on blow room line
7 th	1 st	Cotton bale opening and mixing process
	2 nd	Study of various bale opener like mixing bale opener, unifloc
	3 rd	Cont.. Bale opener blenmat, monocylinder
8 th	1 st	Cont.. axiflow cleaner, uniclean
	2 nd	Cont.... CVT and modern methods
	3 rd	Measuring of opening and cleaning efficiency
9 th	1 st	Dust extraction method in blow room
	2 nd	Study of lap forming machine
	3 rd	Mechanism of chute feed system
10 th	1 st	Process parameter of blow room
	2 nd	Waste control in blow room line
	3 rd	Calculation related to blow room
11 th	1 st	Efficiency and maintenance schedule in blow room
	2 nd	Doubt Clearing Class
	3 rd	Objects of carding
12 th	1 st	Constructional features of carding machine
	2 nd	Principle of carding operation
	3 rd	Principle of stripping action

13 th	1 st	Study of different parts and function of carding machine
	2 nd	Setting and Gauging of carding machine
	3 rd	Production calculation
14 th	1 st	Draft and speed related to carding
	2 nd	Concept of mechanical and actual draft
	3 rd	Study of card clothing
15 th	1 st	Concept of fiber entanglement neps and hooks in carding
	2 nd	Card waste management
	3 rd	Defects and maintenance in carding

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