

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

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