

Lesson Plan

		Name of Faculty : Atul Kumar
		Discipline: Textile Technology
		Textile Technology Semester: 3rd
		Subject: Spinning Technology-1
		Lesson Plan Duration: 15 weeks
Week	Lecture	Work Load (Lecture / Practical) per week (in hours): Th = 3 per week
1	1	Objects of ginning. To study saw ginning. Object and importance of sorting.
	2	Importance and objects of mixing. Importance and objects of blending. Ingredients used in mixing and their standard limit.
	3	Blending techniques from Blow Room to Draw frame. Comparison of mixing and blending.
2	1	Principles of opening, cleaning, and other principles used in Blow Room: -
	2	Types of feed (Loose, semi fast and fast feed).
	3	Difference between beating and opening. Type of beaters. Type of waste extraction systems in Blow room
3	1	Type of spikes, nails, beaters used in Blow room. Principle of dust, dirt and fly extraction.
	2	Types of outlets of blow room and carding machines. Types of trumpets and principle of using it as per material used and hank.
	3	Principle of air currents. Multifunctional Separator and by pass arrangement. Description and working of Condenser.
4	1	Blow room :- Objects of Blow room. Study of following machines in details.
	2	Automatic Bale Plucker.
	3	Mixing bale opener/Hopper bale breaker B2/2 and B3/4R.
5	1	Sessional 1
	2	Step cleaner, mono cylinder cleaner. Axi Flow
	3	Unimix and Method of Unimix mixing.
6	1	ERM Cleaner, Chute Feed System.
	2	Necessity & working of Chute Feed System at Blow Room.
	3	Principle of feed regulating motion-weight in relation to ERM cleaner and chute feed system.
7	1	Principle of feed regulating motion- photo sensor in relation to ERM cleaner and chute feed system.
	2	Principle of feed regulating motion- fast feed in relation to ERM cleaner and chute feed system.
	3	Use of machines for cotton or MMF.
8	1	Main features of Modern Blow Room Line.
	2	Carding: Objects of carding.
	3	Passage of material through Revolving Flat Card.
9	1	Sessional 2nd

	2	Functions, size, speed of various parts i.e. lick-in, mote knives, under casing, back plate, front plate, cylinder, flats, Stationary flats doffer, trumpet, can and coil,
	3	Types and specifications of wires used in Licker -in cylinder and doffer.
10	1	Difference between carding action and stripping action.
	2	Flexible and metallic card clothing, advantages of metallic card clothing.
	3	Objects of stripping, procedure for Plain Roller stripping.
11	1	Objects of grinding and Types of Grinding.
	2	Autoleveller, types of autoleveller and functioning.
	3	Principle of waste extraction Card wastes, its type, standards and control, e.g., motes, fly, strips, dropping, flat waste.
12	1	Neps and remedies to control neps.
	2	Defects in card web and their removal.
	3	Latest development in Carding machine.
13	1	Sessional 3
	2	Salient features of High Production Cards LC-300, DK-840, C 70, LC 333 and LC 363.
	3	Blow room waste and its types.
14	1	Calculation of waste percentage and cleaning efficiency of blow room
	2	Calculation of waste percentage and cleaning efficiency of carding.
	3	Material realization.
15	1	Calculation of draft and draft constant, tension draft and its constant.
	2	Production of card and calculation of waste percentage of a card.
	3	Cleaning efficiency of Card. Production Constant.