

PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Textile Engineering

Faculty Name: - Kalyan Roy

Subject Name: - FABRIC MANUFACTURING-II

Year/Semester: - 2nd / 4th

Subject Code: - PCC-TEX-206A

Unit No.	Topic of the Lecture	Hours	Total Hours
Unit I	Take up motion: Negative take up, positive take up, five wheel take up motion, seven wheel take up motion, electronic take up.	6	12
	Let Off Motion: Objective, negative let off motion, positive let off motion- basic requirements, tension control mechanism, electrical let off motion, warp tension variation.	6	
Unit II	Auxiliary motion: Objective, classification.	1	13
	Weft Stop motion: Objective, side weft fork motion, center weft fork motion.	3	
	Warp Stop motion: Objective, mechanical warp stop motion, electrical warp stop motion.	2	
	Warp Protecting motion: objective, loose reed warp protecting motion, fast reed warp protecting motion, electromagnetic warp protecting motion.	3	
	Weft mixing motion, Multiple box motion, 4×1 drop box motion, preparation of pattern cards, pick at will motion.	4	
Unit III	Automatic looms: basic features, advantages over plain looms, classification of automatic looms, weft feeling mechanism, mechanical weft feeler, electronic weft feeler, optical weft feeler, pirn changing mechanism, shuttle changing mechanism, bobbin loader mechanism.	7	13
	Dobby Shedding: Main parts of dobby loom, types of Dobby, negative dobby, single, double lift single jack dobby, double lift double jack dobby, design and peg plan for dobbies, positive dobby, electronic dobby, types of shed formed in dobby	6	
Unit IV	Jacquard Shedding: Principle parts of jacquard machine, types of jacquard, types of shed formed in jacquard, single lift single cylinder jacquard, double lift single cylinder jacquard, double lift double cylinder jacquard, harness building, harness ties, design ties, card cutting, card lacing	10	12
	Calculations: Production, efficiency, Calculations related to weaving.	2	