LESSON PLAN

DEPARTMENT OF TEXTILE TECHNOLOGY, ITT, CHOUDWAR

SUBJECT: FABRIC MANUFACTURE I **Periods:** 3 per week **SEMESTER:** 3rd

NAME OF FACULTY: MANAS KUMAR SAHOO No. of weeks: 15

Week	Period	Theory / Practical Topics
1st	1^{st}	Objects of warp and weft winding
	2 nd	Types of winding (precession & non precession).
	3 rd	Features of warp winding machine
2^{nd}	1^{st}	Precision pirn winding machine
	2 nd	Non- precision winding machine
	3 rd	anti patterning device, knotters, splicers, electronic clearers
3 rd	1^{st}	slub catchers, yarn tensioners,
	2^{nd}	waxing, different types of traverse mechanisms)
	3 rd	Classification of yarn faults ,Package defects and their remedies
4 th	1^{st}	Modern developments in winding machine.
	2 nd	Calculations related to winding (related to traverse ratio)
	3 rd	winding angle, winding speed, yarn tensioner, production of machines.
5 th	1^{st}	Features of weft winding machine
	2 nd	Schiewter Pirn winding Machine
	3 rd	Discussion
6 th	1 st	Objects of warping
	2 nd	Types of warping machine (direct and sectional)
	3 rd	Explain passage of yarns through High Automatic beam warping.
7 th	1 st	Features of high speed direct and sectional warping.
	2 nd	(types of creel, stop motions, tensioners, different mechanisms at head stock)
	3 rd	Passage of materials through Sectional warping achine
8 th	1 st	Package defects and their remedies
	2^{nd}	Recent developments in warping machine.
	3 rd	Calculations related to warping
9 th	1 st	Discussion
	2 nd	Objects of sizing, Sizing ingredients their properties and functions.
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10 th	1 st	Preparation of size paste—formulation, cooking equipment and storing.
	2^{nd}	Slasher sizing machine – general description,
	3 rd	Different types of creel, Design of size box ,heating and
$11^{\rm th}$	$1^{\rm st}$	temperature control, level control, immersion rollers and squeeze rollers,
	2^{nd}	Application of size of cotton warp (types of sizing)
	3 rd	Drying equipments (cylinder drying, hot air drying
12 th	1 st	radiation drying, cooling of warp sheet, single end sizing.
	2 nd	The head stock (dry splitting, beam pressing roller, measuring and
	3 rd	The head stock (dry splitting, beam pressing roller, measuring
13 th	1 st	Modern developments in sizing.
	2 nd	Brief idea on drawing & denting.
	3 rd	Discussion
14 th	1 st	Explain passage of yarns through plain looms.
	2^{nd}	Define and Describe Shedding.
	$3^{\rm rd}$	Classify & Explain Type of shedding devices and Type of Sheds.

15 th	1 st	Describe Picking and checking mechanism.
	2 nd	Explain Beating up mechanism
	3 rd	State Timing and setting of shedding, picking and beating,