

LESSON PLAN

SUB: FABRIC MANUFACTURE -I

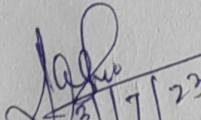
BRANCH:- TEXTILE ENGG.

SEMESTER:3rd

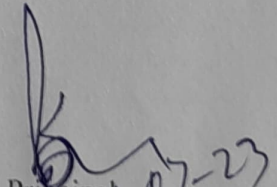
NAME OF FACULTY: RASMI REKHA PATEL (I/C HOD Textile Engg.)



**GOVERNMENT POLYTECHNIC,
BHADRAK**


3/7/23
Hod, Textile Engg.


Academic Coordinator


17-23
Principal
Govt. Polytechnic, Bhadrak

LESSON PLAN

DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK

SUBJECT: Fabric Manufacture - I Periods: 3 per week SEMESTER: 3rd

NAME OF FACULTY: R.R.PATEL ACADEMIC YEAR: 2023-2024

Semester From date: 01.8.2023 To Date: 30.11.2023 No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1st	1st	Objects of warp and weft winding.
	2nd	Types of winding (precession winding).
	3rd	Types of winding (non precession winding).
2nd	1st	Features of warp and weft winding machine (anti patterning device, knotters)
	2nd	Features of warp and weft winding machine (splicers, electronic clearers, slub catchers)
	3rd	Features of warp and weft winding machine (yarn tensioners, waxing)
3rd	1st	Features of warp and weft winding machine (different types of traverse mechanisms)
	2nd	Class for revision
	3rd	Classification of yarn faults
4th	1st	Package defects and their remedies.
	2nd	Modern developments in winding machine.
	3rd	Modern developments in winding machine.
5th	1st	Calculations related to winding (related to traverse ratio, winding angle, winding speed)
	2nd	Calculations related to winding (yarn tensioner, production of machines)
	3rd	Class for revision
6th	1st	Objects of warping. Types of warping machine (direct warping machine).
	2nd	Types of warping machine (sectional warping machine).
	3rd	Passage of yarns through High Automatic beam warping.
7th	1st	Features of high speed direct and sectional warper (types of creel, stop motions, tensioners, different mechanisms at head stock).
	2nd	Features of high speed direct and sectional warper (types of creel, stop motions, tensioners, different mechanisms at head stock).
	3rd	Package defects and their remedies.
8th	1st	Recent developments in warping machine.
	2nd	Calculations related to warping
	3rd	Calculations related to warping
9th	1st	Class for revision
	2nd	Objects of sizing, Sizing ingredients-- their properties and functions.
	3rd	Preparation of size paste-- formulation, cooking equipment and storing.
10th	1st	Slasher sizing machine - general description ,Different types of creel
	2nd	Slasher sizing machine - Design of size box ,heating and temperature control, level control
	3rd	Slasher sizing machine - immersion rollers, squeeze rollers, wet splitting.
11th	1st	Application of size of cotton warp (types of sizing, factors governing pick up of size)

	2nd	Drying equipments (cylinder drying, hot air drying, radiation drying)
	3rd	Drying equipments (cooling of warp sheet, single end sizing)
	1st	Class for revision
12th	2nd	The head stock (dry splitting, beam pressing roller, measuring and marking motions).
	3rd	Tension on warp sheet and its control (factors governing tension)
13th	1st	Tension on warp sheet and its control (methods of measuring stretch, control of stretch)
	2nd	Modern developments in sizing.
	3rd	Brief idea on drawing & denting.
14th	1st	Class for revision
	2nd	Passage of yarns through plain looms, Definition of Shedding, Classification, Type of shedding devices and Type of Sheds.
	3rd	Tappet shedding.
15th	1st	Picking and checking mechanism.
	2nd	Beating up mechanism.
	3rd	Timing and setting of shedding, picking and beating, basic calculation related to loom.

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31/08/23

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31/08/23
Signature of HOD
Textile Engg.

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31.7.23
Academic Co-ordinator

(Lecture textile)