LESSON PLAN

SUB: FABRIC TECHNOLOGY-1
BRANCH: - TEXTILE ENGG.
SEMESTER:3rd
SESSION:2025-26

NAME OF FACULTY: Manisha Roul(GF)



GOVERNMENT POLYTECHNIC, BHADRAK

Acadeviic (I/C)
Textile Engg

Academic Co-ordinator
Academic Co-ordin

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Bhadrak

LESSON PLAN

DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK SUBJECT: Fabric technology-1 Periods: 3 per week SEMESTER: 3rd NAME OF THE FACULTY: Manisha Roul ACADEMIC YEAR:2025-2026

SEMESTER FROM DATE:14.07.2025 TO DATE:15.11.2025

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.
Thank it	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
	1st	Objects of warping.
		Types of warping machine (direct warping machine).
6th	2nd	Types of warping machine (sectional warping machine).
	3rd	Passage of yarns through High Automatic beam warping.
di kirali	1st	Features of high speed direct and sectional warper (types of creel,
		stop motions, tensioners, different mechanisms at head stock).
7th	2nd	Features of high speed direct and sectional warper (types of creel,
		stop motions, tensioners, different mechanisms at head stock).
128000	3rd	Package defects and their remedies.
8th	1st	Recent developments in warping machine.
	2nd	Calculations related to warping
	3rd	
	The second secon	Calculations related to warping
9th	1st	Class for revision
7111	2nd	Objects of sizing, Sizing ingredients their properties and functions.
EXTRACTOR SELVE	3rd 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 splittir

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)
1541	2nd	Modern developments in sizing.
	3rd	Brief idea on drawing & denting.
The Sharper	lst	Class for revision
14th	2nd	Passage of yarns through plain looms, Defination of Shedding, Classification, Type of shedding devices and Type of Sheds.
344	3rd	Tappet sheeding, picking and checking mechanism.
111 11 11 11 11	1st	yarn numbering system and its conversions and beat-up mechanism
15th	2nd	Indirect system and direct system.
1301	3rd	Timing and setting of shedding, picking and beating, basic calculation related to loom.

Manisha Rom. Signature of Lect. Textile Engg

Academic (HC)
Textile Engg.

Signature of Academic co-ordinator.