LESSON PLAN

SUB: TH-3 FABRIC MANUFACTURE II

BRANCH: - TEXTILE ENGG.

SEMESTER:4TH

NAME OF FACULTY: DEBASMITA DAS (GF)

GOVERNMENT POLYTECHNIC, BHADRAK

01.02.2025

Hod(I/C) ,Textile Engg.

Academic Co-ordinator

Academic Co-ordinator

Principal

01.02.25

Govt. Polytechnic, Bhadrak

LESSON PLAN

DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK

SUBJECT: Fabric Manufacture-II Periods: 4 per week SEMESTER: 4th

NAME OF FACULTY: DEBASMITA DAS (GF) **ACADEMIC YEAR:** 2024-2025

Semester From date:04.02.2025 To Date:17.05.2025 No. of weeks: 15

Week	Class Day	Theory Topics
1st	1st	Secondary and Auxiliary motion
	2nd	Explain take up & Classify take up motion.
	3rd	Discuss Negative and positive take up motions.
	4th	Explain let off & Classify let off motion
2nd	1st	Explain let off & Classify let off motion
	2nd	Discuss Negative and positive let off mechanism.
	3rd	Discuss Negative and positive let off mechanism.
	4th	Explain Warp protecting motion.
3rd	1st	Explain Warp protecting motion.
	2nd	Discuss weft stop motion
	3rd	Discuss weft stop motion
	4th	Discuss Break Mechanism.
4th	1st	Discuss Break Mechanism.
	2nd	Discuss Timings and settings of these motions.
	3rd	Explain drop Box mechanism
	4th	Explain drop Box mechanism
5th	1st	Explain pick & pick looms.
	2nd	Explain pick & pick looms.
	3rd	Brief idea on card saving devices .
	4th	Brief idea on card saving devices .
6th	1st	Explain working principles of dobbies like Keighly , cam, paper and electronically controlled Dobby.
	2nd	Explain working principles of dobbies like Keighly , cam, paper and electronically controlled Dobby.
	3rd	Explain working principles of dobbies like Keighly , cam, paper and electronically controlled Dobby.
	4th	Discuss pegging for dobby (Right & left hand) loom.
7th	1st	Discuss pegging for dobby (Right & left hand) loom.
	2nd	Explain principles of Jacquard weaving & Classify Jacquards.
	3rd	Explain principles of Jacquard weaving & Classify Jacquards.
	4th	Explain principles of Jacquard weaving & Classify Jacquards.
8th	1st	Explain working single lift double lift single cylinder Jacquards
	2nd	Explain working single lift double lift single cylinder Jacquards
	3rd	Explain working single lift double lift single cylinder Jacquards
	4th	Discuss double lift double cylinder Jacquards.
9th	1st	Discuss double lift double cylinder Jacquards.
	2nd	Discuss double lift double cylinder Jacquards.
	3rd	Discuss Jacquard building and harness ties & Casting out of Jacquard.
	4th	Discuss Jacquard building and harness ties & Casting out of Jacquard.
10th	1st	Discuss Jacquard building and harness ties & Casting out of Jacquard.
	2nd	Brief idea on Electronic Jacquard.
	3rd	Brief idea on Electronic Jacquard.
	4th	Brief idea on Electronic Jacquard.
11th	1st	Explain weft feeler mechanism.
	2nd	Explain weft feeler mechanism.
	3rd	Discuss 3 try weft fork mechanism.
	4th	Discuss 3 try weft fork mechanism.
12th	1st	Discuss Automatic warp stop motion.
	2nd	Explain Shuttle protector.
	3rd	Discuss Automatic cop changing motion.
	4th	Discuss Automatic cop changing motion.
13th	1st	Discuss fabric defects, its causes and remedies.
	2nd	Discuss fabric defects, its causes and remedies.
	3rd	Classify & Explain unconventional looms.
	4th	Classify & Explain unconventional looms.

14th	1st	Discuss Limitation of shuttle looms& State the advantages of shuttle-less looms over shuttle looms
	2nd	Discuss Limitation of shuttle looms& State the advantages of shuttle-less looms over shuttle looms
	3rd	Explain the preparation of raw materials for unconventional looms.
	4th	Explain the preparation of raw materials for unconventional looms.
15th	1st	Classify & explain briefly on different types of weft insertion processes in shuttle-less looms like-Rapier, Gripper, Fluid jet etc.
	2nd	Classify & explain briefly on different types of weft insertion processes in shuttle-less looms like-Rapier, Gripper, Fluid jet etc.
	3rd	Class for revision
	4th	Class for revision