

LESSON PLAN

SUB: Yarn Manufacture-I(Theory)

BRANCH: - TEXTILE ENGG.

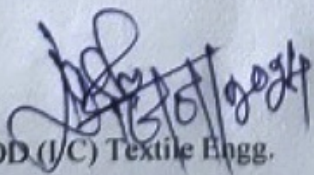
SEMESTER:3rd

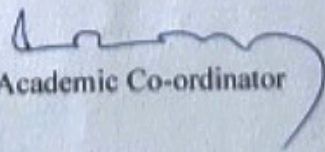
SESSION:2023-24

NAME OF FACULTY: Shreepati Sundar Upadhyay (Lect. Textile Tech.)



**GOVERNMENT POLYTECHNIC,
BHADRAK**


HOD (I/C) Textile Engg.


Academic Co-ordinator


Principal
Govt. Polytechnic, Bhadrak

LESSON PLAN

DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK

SUBJECT: Yarn Manufacture - I **Periods: 3 per week** **SEMESTER: 3rd**

NAME OF FACULTY: S.S UPADHYAY

ACADEMIC YEAR: 2023-2024

Semester From date: 1.8.2023 To Date: 30.11.2023 No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1st	1st	Purpose of ginning.
	2nd	working principles of roller, McCarthy & Saw Gin,
	3rd	working principles of roller, McCarthy & Saw Gin,
2nd	1st	Bailing.
	2nd	Class for revision
	3rd	Objects of Mixing.
3rd	1st	General consideration for preparation of cotton mixing
	2nd	General consideration for preparation of cotton mixing
	3rd	General consideration for preparation of cotton mixing
4th	1st	scientific bale management.
	2nd	scientific bale management.
	3rd	Methods of mixing and blending.
5th	1st	Methods of mixing and blending.
	2nd	Methods of mixing and blending.
	3rd	Class for revision
6th	1st	Principal action in opening and cleaning.
	2nd	Study of various types of machinery arranged in the sequence of a single process Blowroom Line for the various type of mixing.
	3rd	Study of various types of machinery arranged in the sequence of a single process Blowroom Line for the various type of mixing.
7th	1st	Study of various openers & cleaners like Mixing bale opener, unifloc, blendomat, monocylinder, axiflow cleaner, unclean, CVT, etc.
	2nd	Study of various openers & cleaners like Mixing bale opener, unifloc, blendomat, monocylinder, axiflow cleaner, unclean, CVT, etc.
	3rd	Concept of measuring of opening and cleaning efficiency of different opener and cleaner.
8th	1st	Class for revision
	2nd	Method of dust extraction in Blow Room.
	3rd	Study of lap forming unit and chute feed mechanism and their comparison .
9th	1st	Study of lap forming unit and chute feed mechanism and their comparison .
	2nd	Process parameters of Blow Room.
	3rd	Waste control in Blow Room.
	1st	Calculation relating to production , efficiency of machines & Maintenance schedules.

10th	2nd	Calculation relating to production , efficiency of machines & Maintenance schedules.
	3rd	Class for revision
11th	1st	Objects of Carding. Constructional features of Carding Machine.
	2nd	Principles of carding & stripping actions.
	3rd	Principles of carding & stripping actions.
12th	1st	Study of different parts and function of a Carding Machine.
	2nd	Study of different parts and function of a Carding Machine.
	3rd	Class for revision
13th	1st	Settings and gauging of different parts of Carding Machine.
	2nd	Calculation of production, speed, draft etc related to carding machine. calculation in card , Mechanical and Actual draft.
	3rd	Calculation of production, speed, draft etc related to carding machine. calculation in card , Mechanical and Actual draft.
14th	1st	Calculation of production, speed, draft etc related to carding machine. calculation in card , Mechanical and Actual draft.
	2nd	Study of card clothing :- metallic wire geometry of licker-in, cylinder, flat and doffer wire.
	3rd	Mechanics of fibre entanglement , fibre transfer during carding, neps and hook formation and its effect on yarn quality. Card waste –types and control.
15th	1st	Mechanics of fibre entanglement , fibre transfer during carding, neps and hook formation and its effect on yarn quality. Card waste –types and control.
	2nd	Defects in card Sliver and their causes and remedies. Maintenance schedules Study of the function of Auto leveller in Card.
	3rd	Class for revision

Signature of
Lect. Textile Engg.

Signature of
HOD (I/C) Textile Engg.

Signature of
Academic co-ordinator.