

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:** 2022-2023

Semester From date: 15.9.2022 **To Date:** 22.12.2022 **No. of weeks:** 15

| Week | Class Day | Theory / Practical Topics |
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| 1st | 1st | Purpose of ginning. |
| | 2nd | working principles of roller, McCarthy & Saw Gin, |
| | 3rd | working principles of roller, McCarthy & Saw Gin, |
| 2nd | 1st | Baling. |
| | 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. |
| 10th | 1st | Calculation relating to production , efficiency of machines & Maintenance schedules. |
| | 2nd | Calculation relating to production , efficiency of machines & Maintenance schedules. |
| | 3rd | Class for revision |

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| 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 |