**Lesson Plan**

Name of Faculty : Rakesh Jindal

Discipline: Textile Technology

Semester: 5th

Subject: **WEAVING TECHNOLOGY-III**

Lesson Plan Duration: 15 weeks (From September 2022 – January 2023)

Work Load (Lecture / Practical) per week (in hours): Th= 3 per week / pr = 5

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| **Lecture day** | **Topic****(including assignment / test)** |
| 1st | Mechanical warp stop motion |
| 2nd | Mechanical warp stop motion |
| 3rd | Mechanical warp stop motion |
|  | Electric warp stop motion |
| 4th | Electric warp stop motion |
| 5th | Electric warp stop motion |
| 6th |  Introduction toTemples |
| 8th | Types pf temples in relation to different types of fabrics |
| 9th | Various materials used for picking stick, sley and shuttle |
| 10th | Introduction to Automatic loom |
| 11th | various types of shuttleless weaving machines  |
| 12th | Comparative study of the various types of shuttleless machines along with power loom |
| 13th | Working of different motions/ mechanisms to be studied with neat sketches |
| 14th | Working of different motions/ mechanisms to be studied with neat sketches |
| 15th | Introduction to automatic cop changing and its limitations |
| 16th | Introduction to automatic cop changing and its limitations |
| 17th | Introduction to automatic Shuttle changing and its limitations |
| 18th | Introduction to automatic Shuttle changing and its limitations |
| 19th | Types of shuttleless looms  |
| 20th | Comparison of power loom and shuttleless weaving and among different shuttleless loom |
| 21th | **Sessional 1** |
| 22th | * Rapier weft insertion
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| 23rd | * Rapier weft insertion
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| 24th | Gripper weft insertion  |
| 25th | Gripper weft insertion  |
| 26th | Pneumatic weft insertion (Air jet)  |
| 27th | Pneumatic weft insertion (Air jet)  |
| 28th | Pneumatic weft insertion (Air jet)  |
| 29th | Hydraulic weft insertion (Water jet)  |
| 30th | Hydraulic weft insertion (Water jet)  |
| 31th | Hydraulic weft insertion (Water jet)  |
| 32th | **Sessional 2** |
| 33rd | Introduction to Selvedge  |
| 34th | Functions of Selvedge |
| 35th | Selvedge forming mechanism of rapier and gripper type looms |
| 36th | Conventional, chain stitch Selvedge, Melt Selvedge |
| 37th  | Tuck in Selvedge  |
| 38th  | Terry pile weaving |
| 39th  | Features of Terry weaving |
| 40th  | Fabric defects causes and remedies |
| 41th | Calculations relating to production of loom |
| 42th | Calculations relating to production of loom |
| 43th  | Factors effecting the production and efficiency in the weaving  |
| 44th  | Process Control parameter in weaving  |
| 45th  | **Sessional 3** |