

Sant Gadge Baba



Amravati University

Department of Lifelong Learning & Extension

Short Term Certificate Courses

(3 Month)

Syllabus

For

Certificate Course in Textile Weaving

Unit-I :

Introduction: Sectional Warping

Details of Sectional Warping machine, Creeling pattern and the quality requirements, Importance of Sectional, warping, creeling the cones as per pattern setting the length per section and section width, Importance of maintaining uniform tension all the time.

Unit-II :

Beam Warping:

Knowledge of colour codification, Knowledge of yarn count, cone weight and the weaver's knot.

Unit - III:

Knotting & Tying

Basics of Beam knotting, gaiting and dressing, Basics of knotting machine and its operations, Basics of beam gaiting and its operations, Knowledge about the working of the machines in a safe and hygienic manner, Knowledge about the working of the Knotter in a safe and hygienic manner, Precautions for using a Knotter for new sort introduction.

Unit-IV :

Air Jet Looms

Knowledge about the working of Air Jet Looms, Knowledge about the shade differences and the weave of the fabric, Basic motions of Air-jet Looms, Study of Let-off, Take-up, Weft selector and warp stop motions, Dobby motions, selvedge motions, air-pressure controls, relay nozzles, main nozzle, profile reed, etc, Fabric defects, their causes and remedial measures.

Unit - V:

Safety, Security & Discipline

Importance of cleanliness and personal safety, Firefighting and First aid, Safety gadgets in a spinning factory, Precautions to be taken while working, importance of disciplines at work.

PRACTICALS

1. Understanding the Warping machine and its creel.
2. Understanding the pattern and creeling the cones in their respective places.
3. Winding the required number of sections.
4. Attending the breaks and putting weaver's knot.
5. Understanding the salient features of super high speed warping machine and its Controls.
6. Understanding the pattern and creeling the cones in their respective places.
7. Understanding the requirements of the beam and loom to be gaited.
8. Practicing the safety systems by wearing head cover and masks
9. Collecting the hard wastes.
10. Auditing the parts needed and indenting them.
11. Understand shedding picking and beat up on loom.
12. Understand let off and take up on loom.

Books Recommended;

- 1) Handbook of Weaving by- Sabit Adanur
- 2) The Everything Knots book for time and Knot - Randy Penn
- 3) The Course of Loom development by- Teruo Ishida
- 4) Industrial Safety by- Chetan Prakashan
