**Introduction and Winding**

* Definition: fabric, Winding, Winding angle, Coil Angle, Creeling, piecing and doffing.
* Reason for clothing
* Types of fabric
* Historical Background of Weaving
* Flow chart of Textile processing
* Process Flow Chart of Weaving
* Passage diagram of loom
* Causes of yarn preparation for weaving
* The stages involved in warp preparation.
* Importance of yarn preparation for weaving
* The essential features of a good warp
* Objectives of winding
* Types of winding
* Types of yarn package with figure.
* Parallel, near parallel and cross winding.
* Passage diagram of a typical winding machine.
* Difference between Precision & Non Precision Winding.
* Methods of driving (Direct driving and indirect driving).
* Side withdrawal and Over end withdrawal/over withdrawal.
* Different types of yarn guide and tensioner.
* Factors influences for selection of tensioner.
* Factors of Winding efficiency.

**Warping**

* Definition
* Objectives of warping
* Importance of warping
* Requirements of warping
* Components of the warping machine (Headstock and creel)
* Different types of creel (Magazine, V, truck, travelling, etc.)
* Types of Warping
* Features of high-speed, sectional, and ball-warping machines.
* Difference between high speed and sectional warping
* Faults and remedies in warping
* Warping calculations

**Sizing**

* What is sizing?
* Objects of sizing.
* Technical changes due to Sizing.
* Factors of choosing Size ingredient.
* Size ingredients & their function.
* Types of sizing.
* Size take up percentage.
* Factors affecting size take up %.
* Description of different units of sizing machine.
* Size Cooking (Ordinary, Pressure).
* Defects and Remedies of sizing.
* Sizing Calculations.