TAX4560 Woven Fabric Technology

Level	4
Course Code	TAX4560
Course Title	Woven Fabric Technology
Credit value	5
Core/Optional	Core (Textile and Clothing)
Prerequisites	15 credits (P)
Course Aim/s	To provide the technical knowledge in warp & weft preparation processes and fabric weaving.
Course Learning Outcomes (CLO):	At the completion of course, student should be able to:
Caucomas (Cao).	CLO1: Determine the structural parameters and the requirements of warp and weft yarns of woven fabrics
	CLO2: Select appropriate weaving preparatory machines and methods to prepare warp/ weft yarns according to the final fabric requirement.
	CLO3: Select appropriate sizing recipe and machinery to meet optimal requirements. CLO4: Produce warp and weft yarn packages of highest quality to ensure economical weaving and good quality fabrics.
	CLO5: Identify different types of weaving machine mechanisms and select weaving machines and accessories of appropriate technology and optimize their settings to weave different fabrics.
	CLO6: Carry out warp entering/tying employing most suitable technology/methods.
	CLO7: Analyse the causes for quality issues of woven fabrics and suggest remedial actions.
	CLO8: Identify any malfunctioning machines, mechanisms and equipment and take the steps to rectify them.
Content	Outline Syllabus:
	Unit1: Introduction to Weaving Unit 2: Weaving Preparation I - Winding Unit 3: Weaving Preparation II – Warp Preparation Unit 4: Basics of Weaving Unit 5: Detailed Studies of Shedding Unit 6: Detailed Studies of Picking Unit 7: Beat-up Mechanisms and Secondary Motions Unit 8: Loom Monitoring and Automation