

Semester and Level	Year 3 Level 5
Course Code	MHZ5570
Course Title	Quantitative Techniques
Credit value	5
Core/Optional	core(Apparel Production and Management, Textile Manufacture, Fashion Design and Product Development)
Course Aim/s	Aim of the course is to provide about the quantitative techniques used to solve the problems faced in the industry.
Course Learning Outcomes (CLO):	<p>After completing the course, student should be able to,</p> <p>CLO 1: apply the knowledge of algebra and simple calculus in solving problems</p> <p>CLO 2: plot graphs for given functions and retrieve important information to make effective decisions.</p> <p>CLO 3: use the knowledge of linear programming to solve the problems.</p> <p>CLO 4: formulate an effective logistic plan.</p> <p>CLO 5: perform an effective inventory control in a factory.</p> <p>CLO 6 : apply the knowledge of network analysis to perform time analysis ,cost scheduling and resource scheduling</p>
Content (Main topics, sub topics)	<p>Unit 1: Mathematical Background</p> <p>Unit 2: Linear Programming</p> <p>Unit 3: Inventory Control</p> <p>Unit 4: Network analysis</p>