

## TAX3530 Fibre to Fabric

<b>Level</b>	3
<b>Course Code</b>	TAX3530
<b>Course Title</b>	Fibre to fabric
<b>Credit value</b>	5
<b>Core/Optional</b>	Core (Apparel Production and Management, Fashion Design and Product Development)
<b>Course Aim/s</b>	To provide the scientific knowledge in various textile fibres and properties & characteristics and the manufacturing technologies of yarns and fabrics
<b>Course Learning Outcomes (CLO):</b>	<p>At the completion of this course student will be able to:</p> <p>CLO1: Classify the various textile fibres based on their source of availability.</p> <p>CLO2: Describe how fibres are formed by polymers and effect of fibre structure on various fibre properties.</p> <p>CLO3: Explain the structure and properties of widely used textile fibres and their suitability and applicability for various end uses of textile fabrics.</p> <p>CLO4: Explain various methods available to manufacture man-made fibres.</p> <p>CLO5: Explain conventional and modern staple yarn manufacturing techniques and the influence of yarn properties on fabric properties.</p> <p>CLO6: Explain the manufacturing methods of woven, knitted and nonwoven fabrics and identify the important properties and characteristics of textile fabric type for various applications.</p>
<b>Content</b>	<p><b>Outline Syllabus:</b></p> <p>Unit 1: Fibre fundamentals</p> <p>Unit 2: Natural fibres</p> <p>Unit 3: Man-made fibres</p> <p>Unit 4: Yarn fundamentals and cotton spinning</p> <p>Unit 5: Wool yarns and modern spinning methods</p> <p>Unit 6: Weaving technology</p> <p>Unit 7: Knitting and non-woven technology</p>