

### TAX6454 Technical Textiles

<b>Level</b>	6
<b>Course Code</b>	TAX6454
<b>Course Title</b>	Technical Textiles
<b>Credit value</b>	4
<b>Core/Optional</b>	Electives (Textile and Clothing)
<b>Course Aim/s</b>	To provide necessary knowledge to select, use and/or produce textiles for various technical applications
<b>Course Learning Outcomes (CLO):</b>	<p>After the completion of the course, student should be able to:</p> <p>CLO1: Describe the classification, applications and future trends of technical textiles.</p> <p>CLO 2: Identify suitable raw materials for different applications of technical textiles.</p> <p>CLO 3: Produce different types of composites by using various textile preforms and resins.</p> <p>CLO 4: Identify different types of geo textiles, their functions and applications.</p> <p>CLO 5: Explain the use of technical textiles in automotive industry.</p> <p>CLO 6: Explain the use of technical textiles for protective clothing.</p> <p>CLO 7: Select suitable high-performance textile fibres for different applications based on their properties and characteristics. CLO 8: Explain the manufacturing process of various high-performance textile fibres.</p>
<b>Content</b>	<p><b>Outline Syllabus:</b></p> <p>Unit 1: Technical textiles – An introduction</p> <p>Unit 2: Textile composites</p> <p>Unit 3: Geo synthetics</p> <p>Unit 4: Automotive textiles</p> <p>Unit 5: Protective clothing</p> <p>Unit 6: High performance textile fibres</p>