

**TAX5547 Plant Utilities**

<b>Level</b>	5
<b>Course Code</b>	TAX5547
<b>Course Title</b>	Plant Utilities
<b>Credit value</b>	5
<b>Core/Optional</b>	Core (Textile and Clothing)
<b>Prerequisites</b>	45 credits (P)
<b>Course Aim/s</b>	To provide the scientific and technological knowledge in various utilities used in industrial plants.
<b>Course Learning Outcomes (CLO):</b>	<p>At the completion of course, student should be able to:</p> <p>CLO1: Identify various sources of energy and apply the knowledge of conversion principles and techniques in practical scenarios.</p> <p>CLO2: Select appropriate energy sources as per requirements.</p> <p>CLO3: Apply the fundamentals of steam generation for industrial uses.</p> <p>CLO4: Design systems with minimum waste of heat energy.</p> <p>CLO5: Design suitable lighting systems for various industrial situations.</p> <p>CLO6: Apply the knowledge of air conditioning to design a favorable climate condition for industrial situations.</p> <p>CLO7: Use the knowledge of effluent treatment to design waste water treatment plant.</p> <p>CLO8: Build hazard free working environments in various industries.</p>
<b>Content</b>	<p><b>Outline Syllabus:</b></p> <p>Unit 1: Energy</p> <p>Unit 2: Water and Steam</p> <p>Unit 3: Illumination</p> <p>Unit 4: Air Conditioning</p> <p>Unit 5: Textile Effluent Treatment</p> <p>Unit 6: Health and Safety Requirements</p>