

### DMX7305 Renewable Sources of Energy

<b>Level</b>	7
<b>Course Code</b>	DMX7305
<b>Course Title</b>	Renewable Sources of Energy
<b>Credit value</b>	3
<b>Core/Optional</b>	Core
<b>Course Aim/s</b>	Aim of this course is to provide the knowledge in Renewable sources of Energy and its applications
<b>Course Learning Outcomes (CLO):</b>	<p>At the completion of this course student will be able to:</p> <p>CLO1: Describe the characteristics of renewable energy sources.</p> <p>CLO2: Carry out feasibility of implementing biomass energy systems under specific situations.</p> <p>CLO3: Evaluate the feasibility of utilizing Geothermal energy systems for thermal and electrical applications.</p> <p>CLO4: Evaluate the feasibility of utilizing solar energy systems for thermal and electrical applications.</p> <p>CLO5: Assess the energy in wind and evaluate different techniques of harnessing.</p> <p>CLO6: Analyze the operation of different types of hydropower plants.</p> <p>CLO7: Demonstrate the knowledge on other renewable energy sources such as wave and tidal energy with possible applications and harnessing methods.</p>
<b>Content</b>	<p><b>Outline Syllabus:</b></p> <p>Unit 01 : Introduction to Renewable Energy</p> <p>Unit 02 : Biomass Energy</p> <p>Unit 03 : Geothermal Energy</p> <p>Unit 04 : Solar Energy</p> <p>Unit 05 : Wind Energy</p> <p>Unit 06 : Hydropower</p> <p>Unit 07 : Tidal and Wave Power</p>