

EEPW 3300	ENERGY CONVERSION SYSTEMS	3 Credit Hours
Prerequisites:	EEPW 2251	
Goal	To provide the students with the full concepts of understanding of various types of non conventional sources of energy and its conversion to electrical form.	
Objectives	Outcomes	
<p>This course should enable the student to:</p> <ol style="list-style-type: none"> 1. Familiarize and understand the basic principles of non conventional energy like solar, biomass, wind and also water based systems such as wave, tidal, mini micro hydro systems and its conversion to electrical energy. 	<p>The students who satisfactorily complete the course should be able to:</p> <ol style="list-style-type: none"> 1. Comprehend the various forms of non conventional energy sources. 2. Realize the fundamentals of solar energy conversion and photo cells. 3. Grasp the principle of biochemical energy conversion and the biogas engine cum generator. 4. Conceive the design aspects of wind energy components. 5. Arrange and maintain a wind energy conversion system. 6. Devise the general lay out and maintenance of various types of water based systems such as OTEC, wave energy, tidal energy, small mini micro system. 7. Anticipate an overall scenario of geo-thermal energy conversion and nuclear fusion based power generation systems. 	