

Course title: Energy lab – I (Power system lab and heat transfer lab)			
Course code: ENR 101	No. of credits: 2	L-T-P: 0-0-60	Learning hours: 60
Pre-requisite course code and title (if any): N.A.			
Department: Sustainable Engineering			
Course coordinator: Prof. Naqui Anwer		Course instructor(s): Prof. Naqui Anwer / Dr. Ramkishore Singh	
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Course type: Programme Core		Course offered in: Semester 1	
<p>Course description</p> <p>To work in power industry, it is very important to develop an expertise to handle various power system equipments like synchronous machine, DC machine, Induction machine, transformers and transmission lines. This laboratory is designed to give students a hands-on experience on different equipment of electrical power system.</p> <p>Heat Transfer is one of the important subjects which is commonly applied in renewable energy, industrial, commercial and domestic systems. The experiments are designed to provide exposure of practical aspects of the various theoretical concepts developed under the various courses. The laboratory consists of experiments on various conductive, convective, radiative, boiling and condensing mechanisms of heat transfer.</p>			
<p>Course objectives</p> <ul style="list-style-type: none"> ▪ To provide hand-on experience on experimental set ups/prototypes related to power system and heat transfer. ▪ To provide practical learning about construction and operation of power system equipment and heat transfer equipments. 			