

Course title: Fundamentals of thermal and electrical engineering			
Course code: ENR 119	No. of credits: 0	L-T-P: 30-00-00	Learning hours: 30
Pre-requisite course code and title (if any): No			
Department: Sustainable Engineering			
Course coordinator: Prof. Naqui Anwer		Course instructor(s): Prof. Naqui Anwer / Dr Ramkishore Singh	
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Course type: Bridge course audit		Course offered in: Semester 1	
Course Description			
<p>The course is designed to provide basic knowledge of thermal and electrical engineering. It incorporates the fundamentals of thermodynamic principles and their applications. This course provides the required level of knowledge of thermal engineering to understand the mechanical engineering and related courses to the students not having background of mechanical Engineering. It also incorporates the fundamentals of electrical circuit components, electrical and magnetic circuits, DC and AC sources. This course provides the required level of knowledge of electrical engineering to understand power system and related courses to the students not having background of electrical engineering</p>			
Course objectives			
<ul style="list-style-type: none"> ▪ Providing basic knowledge of thermodynamic principles. ▪ Providing knowledge related to thermodynamic processes. ▪ Providing knowledge about use of steam tables. ▪ Provide basic knowledge of electrical circuit components. ▪ Providing knowledge related to characteristics and behaviour of electrical circuits on AC and DC sources and their applications. ▪ Providing knowledge of magnetic circuits. 			