Course Code: EIPS - 102			
Course Title: Basic Electrical and Electronics Lab			
Number of Credits: 03	Total Hours: 84	Total Marks: 7	5
Prerequisites for the course			
Should have some basic knowledge of electrical components such as resistor, capacitor, inductor, transformer,			
relay, switches etc.			
Objectives of Course			
This course is intended to provide the laboratory training and designing of basic electrical circuits			
Course Content			84 Hours
Expt. 1:Getting familiar with measuring instruments (Voltmeter, Ammeter, DMM, Current source, Voltage			
Source)			
Expt. 2: Study of AC waveform parameters			
Expt. 3: Finding the values of resistance based colour codes			
Expt. 4: Parallel and series combination of resistor			
Expt. 5: Verifying Ohm's law and Kirchhoff's law			
Expt. 6: Series and parallel combinations of capacitor			
Expt. 7: Charging and discharging of capacitors			
Expt. 9: Series and parallel combinations of inductor			
Expt. 10: Measuring voltage across different step down transformer			
Expt. 11: Study of different types circuit breaker			
Expt. 12: Turning light/lamp/led ON and OFF using relay			
Expt. 13: Implementation of switch in the electrical circuit			
Pedagogy			
Lab experiments			
Course Outcome			
On completion of the course, students will be able to perform the experiments with a given circuit diagram and			
maintain the lab work book. Students will be also able to plot the results on the graph and analyse it.			