

Course code	Course Name	L-T-P-Credits	Year of Introduction
EE335	ELECTRICAL AND ELECTRONICS LAB	0-0-3-1	2016
Course Objectives: The main objectives of this course are <ul style="list-style-type: none">To give a practical knowledge on the working of electrical machines including dc machines, induction motors and synchronous motors.To impart the basics about design and implementation of small electronic circuits.			
Syllabus List of experiments: <ol style="list-style-type: none">OCC on a dc shunt generator, determination of critical resistance, critical speed, additional resistance required in the field circuitLoad characteristics of DC Shunt generatorLoad characteristics of DC Compound generatorLoad test on DC Series motorLoad test on DC Shunt motorLoad test on single phase transformerStarting of three phase squirrel cage induction motor by star delta switch, load test on three phase squirrel cage induction motorLoad test on three phase slip ring induction motorLoad test on single phase induction motor.OC and SC test on single phase transformerV-I Characteristics of diodes and Zener diodesInput and output characteristics of CE configuration of BJT S. Determination of β, input resistance and output resistance.Half wave and full wave rectifiers with and without filters- Observe the waveforms on CRO.			
Expected outcome: The students will be able to <ol style="list-style-type: none">Test and validate various types of electrical motorsAcquire knowledge on working of semiconductor devices.			