

Course code	Course Name	L-T-P-Credits	Year of Introduction
EE335	ELECTRICAL AND ELECTRONICS LAB	0-0-3-1	2016
<p>Course Objectives: The main objectives of this course are</p> <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. 			
<p>Syllabus</p> <p>List of experiments:</p> <ol style="list-style-type: none"> 1. OCC on a dc shunt generator, determination of critical resistance, critical speed, additional resistance required in the field circuit 2. Load characteristics of DC Shunt generator 3. Load characteristics of DC Compound generator 4. Load test on DC Series motor 5. Load test on DC Shunt motor 6. Load test on single phase transformer 7. Starting of three phase squirrel cage induction motor by star delta switch, load test on three phase squirrel cage induction motor 8. Load test on three phase slip ring induction motor 9. Load test on single phase induction motor. 10. OC and SC test on single phase transformer 11. V-I Characteristics of diodes and Zener diodes 12. Input and output characteristics of CE configuration of BJT S. Determination of β, input resistance and output resistance. 13. Half wave and full wave rectifiers with and without filters- Observe the waveforms on CRO. 			
<p>Expected outcome:</p> <p>The students will be able to</p> <ol style="list-style-type: none"> i. Test and validate various types of electrical motors ii. Acquire knowledge on working of semiconductor devices. 			