Course Number and Name
BEE3L3 ELECTRICAL ENGINEERING LAB

Credits and Contact Hours
2 & 45

Course Coordinator’s Name
Ms Anitha Sampath Kumar

Text Books and References
Lab Manual

Course Description
To understand the performance of electrical generators, motors and transformers by conducting different tests

Prerequisites
Basic Electrical & Electronics Engineering Lab

Co-requisites
Electrical Machines
required, elective, or selected elective (as per Table 5-1)
required

Course Outcomes (COs)
CO1 : Experimentally verify the performance characteristics of Generators

CO2 : Experimentally verify the performance characteristics of Motors

CO3 : Experimentally verify the performance characteristics of Transformers

CO4 : To verify the performance characteristics of Induction motors.

CO5 : To Understand the concepts of alternators

CO6 : To verify the performance of compound motors

Student Outcomes (SOs) from Criterion 3 covered by this Course

List of Topics Covered
List of Experiments:
1. Power Measurements in 3-phase circuits.
2. Swinburne’s Test.
3. Speed control of DC Shunt motors
4. Load Test on DC shunt generator
5. OCC and Load Test on DC shunt generator
6. OC and SC tests on Transformers
7. Load Test on Transformer.
8. Regulation of alternator by EMF and MMF methods.
10. Load test on DC Compound motor
11. Speed control of DC Compound motor.
12. Study of DC and AC motor starters.