5th Semester	REL5C203	Electrical Machine-II Laboratory	L-T-P 0-0-3	2 Credits

Electrical Machine-II Laboratory

List of Experiments

(Perform any 08 Experiments)

1. Determination of the voltage regulation of an alternator by synchronous impedance method and zero power factor (zpf) method
2. Determination of the V and inverted V curves of a synchronous motor
3. Speed control of a three phase induction motor using variable frequency drives.
4. Determination of parameters of synchronous machine
   (a) Positive sequence reactance
   (b) Negative sequence reactance
   (c) Zero sequence reactance
5. Determination of power angle characteristics of an alternator
6. Determination of parameter of a Capacitor start single phase induction motor.
7. Study of parallel operation of two alternators
8. Measurement of direct and quadrature axis reactance of a salient pole synchronous machine by Slip test.
9. Measurement of transient and sub transient reactance of a salient pole alternator
10. Performance of grid connected induction generator.
11. Determination of parameters of three phase induction motor from No Load Test and Blocked Rotor Test.
12. Determination of Efficiency, Plotting of Torque-Slip Characteristics of Three Phase Induction motor by Brake Test.

Digital Learning Resources:

Virtual Lab Link http://vem-iitg.vlabs.ac.in/

http://em-coep.vlabs.ac.in/List%20of%20experiments.html?domain=Electrical%20Engineering