

EE 201P

Electromechanics Lab.

Credits : 0-0-2-1

Approval: Convocation Adhoc Meeting

Prerequisites

Students intended for : B.Tech.

Elective or Compulsory:

Semester : Odd/Even

Experiment List:

1. To study different cut-section models of electrical machines.
2. Parallel operation of two single phase transformers.
3. Sumpners Back to Back test for single phase transformer.
4. To calculate the equivalent circuit parameters of a single-phase transformer and its efficiency at full load of unity power factor.
5. To study three-phase transformer connections.
6. To study the magnetization and load characteristics of a separately excited DC generator.
7. To control the speed of a DC shunt motor by shunt field control, and armature terminal voltage control.
8. Study of 1-phase Induction motor and to find its equivalent circuit parameters.
9. Study of 3-phase Induction motor and to find the equivalent circuit parameters.
10. Study of Speed-Torque characteristics in a Three Phase Induction Motor.
11. To perform OC and SC test on synchronous generator and to find its efficiency and regulation.
12. To carry out synchronization of a synchronous generator with supply mains by three dark lamp method.
13. Study of BLDC motor training set.