

ELECTRIC MACHINE LABORATORY-I

EE-491

Credits: 2

Contacts: 3P

1. Study of the characteristics of a separately excited DC generator.
2. Study of the characteristics of a DC motor
3. Study of methods of speed control of DC motor
4. Study of the characteristics of a compound DC generator (short shunt).
5. Measurement of speed of DC series motor as a function of load torque.
6. Study of equivalent circuit of a single phase transformer.
7. Polarity test on a single phase transformer & study of different connections of three phase transformer.
8. Study of equivalent circuit of three phase Induction motor by no load and blocked rotor test.
9. Study of performance of wound rotor Induction motor under load.
10. Study of performance of three phase squirrel- cage Induction motor –determination of iron-loss, friction & windage loss.

Reference Books:

1. Laboratory experiments on Electrical machines, C.K. Chanda, A. Chakrabarty, Dhanpat Rai & Co.