

ELECTRICAL MACHINES - I LAB

II Year B.Tech. EEE II-Sem.

Course Outcomes:

CO	ELECTRICAL MACHINES – I LAB
After the completion of the course ,a student must demonstrate the knowledge and ability to	
CO1	Understand the experiments on DC motors – losses, output, and efficiency at different loads.
CO2	Understand the experiments on DC generators– losses, output, and efficiency at different loads.
CO3	Analyze the speed control methods of DC motors.
CO4	Analyze the magnetization characteristics of DC shunt generator to determine its parameters.
CO5	Analyze the efficiencies of D.C Series Machines.

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LIST OF EXPERIMENTS

Any 10 experiments out of 12 Experiments must be conducted

1. Magnetization characteristics of a DC shunt generator.
2. Load test on DC shunt generator.
4. Load test on DC compound generator.
5. Load test on DC series generator.
6. Brake test on DC shunt motor.
7. Brake test on DC compound motor.
8. Hopkinson's test on DC Shunt machines.
9. Field's test on DC Series machines.
10. Separation of losses in DC shunts motor.
11. Retardation test on DC shunt motor.
12. Speed control of DC shunt motor.
13. Swinburne's test on DC shunt machine.