Electrical Machines Laboratory-I is very fundamental laboratory of Electrical Engineering Department. It is equipped with single-phase transformer, D.C. generator, D.C. motor and various electrical & electronics measuring instruments. The purpose of this lab is to give hands on experience on single-phase transformer, D.C. motor and D.C. generator. This laboratory is used for the undergraduate 2nd year 2nd semester students for course EE 292.

The course outcomes:

At the end of the course the student will be able to

- 1. Conduct different tests on single-phase transformer.
- 2. Connect and operate two single phase transformers in parallel.
- 3. Connect and control the speed of D.C. shunt motor using armature control and field control methods.
- 4. Obtain the characteristic of D.C. series motor.
- 5. Obtain the characteristic of D.C. shunt and D.C. compound generator.

Assessment Criteria:

- 1. Regular attendance to classes.
- 2. Experimental result and lab report.
- 3. End semester final examinations.