

Course Title: Electrical Machines Laboratory Work

Course Code: EEG 219

Credit Hours: 1

Course Description:

This course reinforces the concepts learned in electrical machine theory classes that have a strong practical applications emphasis, by a series of relevant experiments carried out in the laboratory.

Course Contents:

A series of experiments to reinforce the subject matter taught in 'EEEG215: Electrical Machinery Fundamentals' in the second year second semester. The following laboratory experiments can be performed:

1. Efficiency and regulation of single phase transformer
2. Short circuit and open circuit test of transformer of single phase transformer
3. Parallel operation of transformer
4. Speed control of a separately excited DC motor
5. Load test on DC shunt and series motors
6. Characteristics of DC generators
7. Characteristics of a single phase induction motors

Evaluation:

In-Semester Evaluation: 80%

End-Semester Evaluation: 20%