## Diploma, Anna Univ UG & PG Courses

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# **EE8311 ELECTRICAL MACHINES LABORATORY-I**

#### **DETAILED SYLLABUS**

## **OBJECTIVES:**

To expose the students to the operation of D.C. machines and transformers and give them experimental skill.

### LIST OF EXPERIMENTS

- 1. Open circuit and load characteristics of DC shunt generator- critical resistance and critical speed.
- 2. Load characteristics of DC compound generator with differential and cumulative connections.
- 3. Load test on DC shunt motor.
- 4. Load test on DC compound motor.
- 5. Load test on DC series motor.
- 6. Swinburne's test and speed control of DC shunt motor.
- 7. Hopkinson's test on DC motor generator set.
- 8. Load test on single-phase transformer and three phase transformers.
- 9. Open circuit and short circuit tests on single phase transformer.
- 10. Sumpner's test on single phase transformers.
- 11. Separation of no-load losses in single phase transformer.
- 12 Study of starters and 3-phase transformers connections.