Diploma, Anna University-UG, PG., HSC & SSLC

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33045- ELECTRICAL MACHINES AND INSTRUMENTATION PRACTICAL

DETAILED SYLLABUS

OBJECTIVES

On completion of this practical subject the students will be able to

- Understand the characteristics of AC machines.
- Make various electrical measurements.
- Use transducers in non electrical quantity measurement.

LIST OF EXPERIMENTS

- 1. Predetermine the regulation of alternator.
- 2. Load test on 3 phase alternator.
- 3. Synchronisation of 3Φ alternators.
- 4. Load test on 1 phase induction motor.
- 5. Load test on 3 phase induction motor.
- 6. Determine the equivalent circuit constants of 3 phase induction motor.
- 7. Predetermine the performance of a 3 phase induction motor.
- 8. Improvement of power factor of an induction motor with load.
- 9. Calibration of given ammeter and voltmeter.
- 10. Calibration of given wattmeter.
- 11. Calibration of 3 phase energy meter.
- 12. Measurement of alternator winding resistance using Wheatstone bridge
- 13. Measurement of value of unknown capacitance using Schering Bridge.
- 14. Measurement of value of unknown inductance using Anderson Bridge.
- 15. Displacement measurement using LVDT.
- 16. Measurement of earth resistance by using megger.