

## **AC MACHINE (P-085001)**

- 1. Demonstration of revolving field set up by a 3-phase wound stator.**
- 2. To plot relationship between no load terminal voltage and excitation current in synchronous generator at constant speed.**
- 3. Determination of the relationship between the voltage and load current of an alternator, keeping excitation and speed constant.**
- 4. Determination of the regulation and efficiency of alternator from the open circuit and short circuit test.**
- 5. Synchronization of poly phase alternators and load sharing.**
- 6. Determination of the effect of variation of excitation on performance of a synchronous motor.**
- 7. Study of ISI/BIS code for 3-phase induction motors.**
- 8. Perform at least two tests on a 3- phase induction motor as per BIS code.**
- 9. Determination of efficiency by:**
  - (a) No load test and blocked rotor test on an induction motor**
  - (b) Direct loading of an induction motor (refer BIS code)**
- 10. Determination of effect of rotor resistance on torque speed curve of an induction motor.**
- 11. To study the effect of a capacitor on the starting and running of a single-phase induction motor by changing value of capacitor and also to reverse the direction of rotation of a single phase induction motor.**
- 12. Slip and slip measurement of three phased induction motor.**