

Apollo Institute of Engineering and Technology

Practical List

Branch: EE

Subject: AC Machines (2140906)

Experiments:

- 1) To study the construction of 3 phase induction motor.
- 2) To determine the equivalent circuit of a 3-phase induction motor by no-load and blocked rotor test.
- 3) To perform direct load test on three phase induction motor.
- 4) To determine the performance characteristics of three phase induction motor using circle diagram.
- 5) To study different types of starters used for three phase induction motor. Explain features of factor of production.
- 6) To determine the voltage regulation of a three phase alternator by direct loading method.
- 7) To determine the voltage regulation of an alternator by indirect method.
- 8) To determine the percentage regulation of alternator by zero power factor method.
- 9) To determine direct axis reactance and quadrature axis reactance of salient pole alternator by slip test.
- 10) Synchronization of two 3- ϕ alternators by
 1. Dark lamp method
 2. Two lamps bright and one lamp dark method
 3. Synchroscope method.
- 11) To plot the 'v' curves of a synchronous motor.
- 12) To determine the equivalent circuit of single phase induction motor by no load and blocked rotor test.