

COURSE TITLE : A C MACHINERY LAB
COURSE CODE : 437
PERIODS/WEEK : 6
PERIODS/SEMESTER : 108
CREDITS : 3

LIST OF EXPERIMENTS

1. Identification of starting and finishing end of three phase armature windings
2. Starting of induction motor using TPDT switch
3. Determination of voltage regulation of alternator by direct loading
4. Perform Open circuit and short circuit test of an alternator and to pre determine the voltage regulation by EMF method (Synchronous impedance method).
5. Perform Open circuit and short circuit test of an alternator and to predetermine the voltage regulation by MMF method
6. Conduct No load test on induction motor and separation of no load losses
7. Conduct No load and blocked rotor test on a 3 phase induction motor and construct circle diagram and predetermine slip, efficiency, torque and power factor at various loads.
Predetermine the maximum output and maximum torque
8. Conduct Load test on induction motor and plot various characteristics.
9. Synchronize 3Phase alternator with infinite bus bars by lamp method
10. Draw the V curve and inverted V curve of a synchronous motor.