

**FINOLEX ACDAEMY OF MANAGEMENT & TECHNOLOGY, RATNAGIRI.  
DEPT. OF ELECTRICAL ENGG.**

**Name of the laboratory: - Electrical Machines and Drives.**

**LIST OF EXPERIMENTS.**

<b>1.</b>	<b>Electrical Machines I</b>
➤	Study of D.C. machine.
➤	Speed control of D.C. shunt motor. (Armature control and field control)
➤	Load test on D.C. shunt motor.
➤	Load test on D.C. series motor.
➤	Hopkinson's test on DC machine.
➤	Retardation test on DC machine.
➤	O.C. and S.C. on single phase transformer.
➤	Sumpner's test on single phase transformer.
➤	Parallel operation of transformers.
➤	Scott & open delta connection of transformers.
<b>2.</b>	<b>Electrical Machines II</b>
➤	Study of three phase induction motor.
➤	No load test and Blocked rotor test on three phase induction motor.
➤	Load test on three phase induction motor. (S.C.I.M. and S.R.I.M.)
➤	Load test on single phase induction motor.
➤	O.C. and S.C. test on three phase alternator.
➤	Z.P.F. test on three phase alternator.
➤	'V' and 'Inverted V' curves of synchronous motor.
➤	Slip test on synchronous motor.
➤	Parallel operation of alternators.
<b>3.</b>	<b>Electrical Drives and Control</b>
➤	Dynamic Braking of D.C. shunt motor.
➤	Plugging of D.C. shunt motor.
➤	Plugging of three phase induction motor.