

Course Number and Name												
BEE4L1&Electrical Machines Laboratory-II												
Credits and Contact Hours												
2 & 45												
Course Coordinator's Name												
Mrs.Anitha Sampath Kumar												
Text Books and References												
Text Books: Lab Manual												
Course Description												
To expose the students to the operation of synchronous machines and induction motors and give them experimental skill												
Prerequisites						Co-requisites						
Nil						Electrical Machines-II						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1: Understand the characteristics and performance of AC machines. CO2: Gain knowledge about speed control techniques of induction machines.												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	l
CO1	H	H	L	L	H	M	M	L	L	L	L	L
CO2	H	H	L	L	M	M	M	L	L	L	L	L
List of Topics Covered												
LIST OF EXPERIMENTS:												
<ol style="list-style-type: none"> 1. Regulation of alternator by EMP and MMF method 2. Regulation of alternator by potier ASA method 3. Regulation of salient pole alternator – slip test 4. Load test on alternator 5. Study of A.C. starters 6. V and inverted V curve of synchronous motor. 7. Brake test of three phase squirrel cage induction motor. 8. No load and blocked rotor tests on three phase induction motor and circle diagram and equivalent circuit 9. Load test on single phase induction motor. 10. Equivalent circuit and predetermination of performance of single phase induction motor. 11. Load test on three phase induction motor 12. Load test on three phase slip ring induction motor 13. Synchronizing and parallel operation by dark lamp, bright lamp and synchroscope methods. 												