

Course Number and Name												
BEE3L2 &Electrical Machines Laboratory – I												
Credits and Contact Hours												
2 & 45												
Course Coordinator's Name												
Mrs.AnithaSampathkumar												
Text Books and References												
Text Books:												
1. DEPARTMENT LABORATORY MANUAL												
Course Description												
To expose the students to the operation of D.C. machines and transformers and give them Experimental skill.												
Prerequisites						Co-requisites						
Nil						Electrical Machines-I						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1: To rig up circuits for testing a given machine.												
CO2:To obtain the performance characteristics of 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												
I LIST OF EXPERIMENTS FOR ELECTRICAL ENGINEERING LAB												
<ol style="list-style-type: none"> 1. 1Open Circuit characteristics of DC shunt generator 2. Load characteristics of separately excited generator 3. Load characteristics of DC shunt generator 4. Load characteristics of DC shunt generator 5. Speed control of DC shunt motor 6. Swinburne's test 7. Hopkinson's test 8. Load test on single phase transformer 9. Open Circuit and short circuit test on single phase transformer 10. Sumpener's test 11. Parallel operation of single phase transformers 12. Three phase transformer connections, scott connections. 13. Field's test on DC series motor 14. Separation of no load losses In a single phase transformer 15. Study of DC starters 												