

Course Number and Name												
BEE3L3 ELECTRICAL ENGINEERING LAB												
Credits and Contact Hours												
2 & 45												
Course Coordinator's Name												
Ms Anitha Sampath Kumar												
Text Books and References												
Lab Manual												
Course Description												
To understand the performance of electrical generators, motors and transformers by conducting different tests												
Prerequisites						Co-requisites						
Basic Electrical & Electronics Engineering Lab						Electrical Machines						
required, elective, or selected elective (as per Table 5-1)												
required												
Course Outcomes (COs)												
CO1 : Experimentally verify the performance characteristics of Generators												
CO2 :Experimentally verify the performance characteristics of Motors												
CO3 :Experimentally verify the performance characteristics of Transformers												
CO4 :To verify the performance characteristics of Induction motors.												
CO5 :To Understand the concepts of alternators												
CO6 :To verify the performance of compound motors												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
	COs/SOs	a	b	c	d	e	f	g	h	i	j	k
	CO1	H			H							
	CO2	H	H	H	H	H				M	M	
	CO3	H		H	H							
	CO4		H		H							
	CO5	M			H					M	M	
	CO6		H	M	H	H						
List of Topics Covered												
List of Experiments:												
1.	Power Measurements in 3-phase circuits.											
2.	Swinburne's Test.											
3.	Speed control of DC Shunt motors											
4.	Load Test on DC shunt generator											
5.	OCC and Load Test on DC shunt generator											
6.	OC and SC tests on Transformers											
7.	Load Test on Transformer.											
8.	Regulation of alternator by EMF and MMF methods.											
9.	Equivalent circuit on Single phase induction motor.											
10.	Load test on DC Compound motor											
11.	Speed control of DC Compound motor.											
12.	Study of DC and AC motor starters.											