

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA
Academic lesson plan for summer semester - 2023

Name of the teaching faculty: **Arabinda Pradhan**
 Semester: **4th**
 No. of periods per week: **6**
 Semester Exam: **50**
 Total Marks: **75**

Discipline / Dept.: **EE**
 Subject (Practical): **EML-I**
 Total Periods: **90**
 Class Test: **25**

Week	Period	UNIT/CHAPTER	Topic to be covered
1 ST	1 st	EXPERIMENT 1(A)	. Identification of different terminals of a DC machine by test lamp method
	2 nd		
	3 rd		
	4 th	EXPERIMENT 1(B)	Identification of different terminals of a DC machine by multimeter method.
	5 th		
	6 th		
2 ND	1 st	EXPERIMENT 1(c)	Measurement of insulation resistance of a DC motor by megger.
	2 nd		
	3 rd		
	4 th	EXPERIMENT 2	Dimensional and material study of various parts of a DC machine.
	5 th		
	6 th		
3 RD	1 st	EXPERIMENT 3	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph.
	2 nd		
	3 rd		
	4 th	EXPERIMENT 4	Plot External Characteristics of a DC shunt generator at constant speed
	5 th		
	6 th		
4 TH	1 st	EXPERIMENT 5	Study of Three point starter, connect and run a DC shunt motor & measure the no load current.
	2 nd		
	3 rd		
	4 th	EXPERIMENT 6	Study of Four point starter, connect and run a DC compound motor & measure no load current
	5 th		
	6 th		
5 TH	1 st	EXPERIMENT 7(A)	Control the speed of a DC shunt motor by field flux control method.
	2 nd		
	3 rd		
	4 th	EXPERIMENT (B)	Control the speed of a DC shunt motor by armature voltage control method.
	5 th		
	6 th		
6 TH	1 st	EXPERIMENT 8	Determine the armature current vs. speed characteristic of a DC motor
	2 nd		
	3 rd		
	4 th	EXPERIMENT 9	Determine the efficiency of a DC machine by brake test method
	5 th		
	6 th		
7 TH	1 st	EXPERIMENT 10	Identification of terminals, determination of voltage transformation ratio of a single phase transformer.
	2 nd		
	3 rd		
	4 th	EXPERIMENT 11(A)	Perform Open Circuit Test of a single phase transformer.
	5 th		
	6 th		
8 TH	1 st	EXPERIMENT 11(B)	Perform Short Circuit test of a single phase transformer.
	2 nd		
	3 rd		
	4 th	EXPERIMENT 12(A)	Determine the voltage regulation of a single phase