LESSON PLAN

Discipline: E & TC Engg.	Semester: Fourth (4)	Name of the Lab I/C: Er. T. K Swain
Subject: Electrical Machine Lab (Pr 1)	No. of days/week class allotted: Three (3)	Semester from Date: 16.01.24 to Date: 26.04.24 No. of Weeks: 15
WEEK	CLASS DAY	PRACTICAL EXPERIMENTS
st 1	1 st	Dimensional and material study of various parts of D.C
	2 nd	machine.
	3 rd	
2 nd	st 1	
	nd 2	
	3 rd	Review Class
3 rd	1 st	Identification of different terminals of a D.C machine by test lamp method and multimeter method and measure insulation resistance by megger.
	2 nd	
	3 rd	Review Class
4 th	1 st	Plot OCC of D.C shunt generator at constant speed and determine critical resistance from the graph.
	2 nd	
	3 rd	Review Class
5 th	1 st	Plot external characteristics of a D.C shunt generator at constant speed.
	2 nd	
	3 rd	Review Class
6 th	1 st	Study of three point starter, connect and run a D.C shunt motor and measure the no load current.
	nd 2	
	3 rd	Review Class
7 th	st 1	Study of four-point starter, connect and run a D.C compound motor and measure no load current.
	nd 2	
	3 rd	

	st	
	1	
8 th	2 nd	
	3 rd	Review Class
9 th	1 st	Control the speed of a D.C shunt motor by field flux control method and armature voltage control method.
	2 nd	
	3 rd	Review Class
10 th	st 1	Determine the efficiency of a D.C machine by break test method.
	2 nd	
	3 rd	Review Class
11 th	1 st	Perform OC & SC test of a single phase Transformer.
	2 nd	
	3 rd	Review Class
12 th	st 1	Determination of voltage regulation of a single phase transformer at different loads.
	nd 2	
	3 st	
	1 nd	
13 th	2	
	3 rd	Review Class
14 th	st 1	Revision
	2 nd	
	3 rd	
	st 1	Revision
15 th	2 nd	
	3 rd	