ACADEMIC LESSON PLAN OF SUMMER 2023

Discipline	Semester: -4 th	Name of the Teaching Faculty: -
ELECTRICAL	SEM	P.K DEV and Biswanita Sahu
ENGG.	(Sec B)	
Subject: -	No of Days/per	Semester From: - 14 th Feb 2023 to 23 rd May 2023
Electrical	Week Class	No. of weeks:14 weeks
Machine Lab-I	Allotted:	NO. Of Weeks.14 Weeks
	2p/week	
Week	Class Day	Practical Topics
1 st	1 st	1. Identification of different terminals of a DC machine by test lamp method and multi-meter method & to measure insulation resistance by megger.(contd.)
	2 nd	1. Identification of different terminals of a DC machine by test lamp method and multi-meter method & to measure insulation resistance by megger.
2 nd	1 st	2. Dimensional and material study of various parts of a DC machine.(contd.)
	2 nd	2. Dimensional and material study of various parts of a DC machine.
3 rd	1 st	3.Plot OCC of a DC shunt generator at constant speed and
		determine critical resistance from the graph.(contd.)
	2^{nd}	3.Plot OCC of a DC shunt generator at constant speed and
		determine critical resistance from the graph.
	1 st	4.Plot External Characteristics of a DC shunt generator at constant
4 th		speed.
	$2^{\rm nd}$	5. Study of Three point starter, connect and run a DC shunt motor & measure the no load current.(contd.)
5 th	1 st	5. Study of Three point starter, connect and run a DC shunt motor & measure the no load current.
	$2^{ m nd}$	6. Study of Four point starter, connect and run a DC compound motor & measure no load current.
6 th	1 st	6. Study of Four point starter, connect and run a DC compound motor & measure no load current.
	2 nd	7. Control the speed of a DC shunt motor by field flux control method. (Contd.)
7 th	1 st	7. Control the speed of a DC shunt motor by field flux control method.
	2 nd	8.Control the speed of a DC shunt motor by armature voltage control method. (Contd.)
8 th	1 st	8.Control the speed of a DC shunt motor by armature voltage control method. (Contd.)

1 st 2 nd 1 st	 motor(Contd.) 9. Determine the efficiency of a DC machine by brake test method. (Contd.) 9. Determine the efficiency of a DC machine by brake test method. 10. Identification of terminals, determination of voltage
2 nd	(Contd.) 9. Determine the efficiency of a DC machine by brake test method.
2	9. Determine the efficiency of a DC machine by brake test method.
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1 st	10. Identification of terminals, determination of voltage
	20. Machinian of terrimians, acterimination of voltage
	transformation ratio of a Single Phase Transformer(Contd.)
2 nd	10. Identification of terminals, determination of voltage
	transformation ratio of a Single Phase Transformer
1 st	10. Identification of terminals, determination of voltage
	transformation ratio of a Single Phase Transformer
2 nd	11. Perform OC Test of a Single Phase Transformer.(Contd.)
1 st	11. Perform SC test of a Single Phase Transformer.
2 nd	12. Determine the voltage regulation of a Single Phase Transformer
	at different loads. (Contd.)
1 st	12. Determine the voltage regulation of a Single Phase Transformer
	at different loads.
2 nd	12. Determine the voltage regulation of a Single Phase Transformer
	at different loads.
1 st	Revision Class
2 nd	Revision Class
	2 nd 1 st 2 nd 1 st 2 nd 1 st 2 nd 1 st 2 nd

Signature of Teaching Faculty