ACADEMIC LESSON PLAN OF SUMMER 2023

Discipline	Semester: -4 th	Name of the Teaching Faculty: -
ELECTRICAL	(Sec A,Grp 1)	Sunita Oram and Biswanita Sahu
ENGG.		
Subject: -	No of Days/per	Semester From: - 14 th Feb 2023 to 23 rd May 2023
Electrical	Week Class	
Machine Lab-I	Allotted:	No. of weeks:14 weeks
Widelinie Lab i	2p/week	
	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
	and	resistance by megger.(contd.)
	$2^{\rm nd}$	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.)
	$2^{\rm nd}$	2. Dimensional and material study of various parts of a DC machine.
3 rd	1 st	2 Plat OCC of a DC about a second and a second and
3	1	3.Plot OCC of a DC shunt generator at constant speed and
	2 nd	determine critical resistance from the graph.(contd.)
	2	3.Plot OCC of a DC shunt generator at constant speed and
	1 st	determine critical resistance from the graph.
4 th	1	4.Plot External Characteristics of a DC shunt generator at constant
	2 nd	speed.
	2	5. Study of Three point starter, connect and run a DC shunt motor &
_th	4 St	measure the no load current.(contd.)
5 th	1 st	5. Study of Three point starter, connect and run a DC shunt motor &
	and	measure the no load current.
	$2^{\rm nd}$	6. Study of Four point starter, connect and run a DC compound
	. st	motor & measure no load current.
6 th	1 st	6. Study of Four point starter, connect and run a DC compound
	- nd	motor & measure no load current.
	$2^{\rm nd}$	7. Control the speed of a DC shunt motor by field flux control
+ lh	. et	method. (Contd.)
7 th	1 st	7. Control the speed of a DC shunt motor by field flux control
	- nd	method.
	$2^{\rm nd}$	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.
2	
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