## ACADEMIC LESSON PLAN OF SUMMER 2022

Discipline	Semester: -4 <sup>th</sup>	Name of the Teaching Faculty: -
ELECTRICAL	(Sec B)	Sunita Oram and Biswanita Sahu
Subject: -	No of Days/per	Semester From: -10 <sup>th</sup> March 2022 To: 10 <sup>th</sup> June 2022
Electrical	Week Class	
Machine Lab-I	Allotted:	No of Weeks: - <b>15 weeks</b>
	2p/week	
Week	Class Day	Practical Topics
1 <sup>st</sup>	1 <sup>st</sup>	1. Identification of different terminals of a DC machine by test lamp
	11/03/2022	method and multi-meter method & to measure insulation resistance by megger.(contd.)
	2 <sup>nd</sup>	1. Identification of different terminals of a DC machine by test lamp
	16/03/2022	method and multi-meter method & to measure insulation resistance by megger.
2 <sup>nd</sup>	1 <sup>st</sup>	Holiday
	18/03/2022	
	2 <sup>nd</sup>	2. Dimensional and material study of various parts of a DC machine.
	23/03/2022	
3 <sup>rd</sup>	1 <sup>st</sup>	3.Plot OCC of a DC shunt generator at constant speed and
	25/03/2022	determine critical resistance from the graph.(contd.)
	2 <sup>nd</sup>	3.Plot OCC of a DC shunt generator at constant speed and
	30/03/2022	determine critical resistance from the graph.
	1 <sup>st</sup>	Holiday
4 <sup>th</sup>	1/04/2022	
	2 <sup>nd</sup>	4.Plot External Characteristics of a DC shunt generator at constant
	06/04/2022	speed.
5 <sup>th</sup>	1 <sup>st</sup>	5. Study of Three point starter, connect and run a DC shunt motor &
	08/04/2022	measure the no load current.
	2 <sup>nd</sup>	6. Study of Four point starter, connect and run a DC compound
	13/04/2022	motor & measure no load current.
6 <sup>th</sup>	1 <sup>st</sup>	Holiday
	15/04/2022	
	2 <sup>nd</sup>	6. Study of Four point starter, connect and run a DC compound
	20/04/2022	motor & measure no load current.(cont.)
7 <sup>th</sup>	1 <sup>st</sup>	7. Control the speed of a DC shunt motor by field flux control
	22/04/2022	method. (Contd.)
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	2 <sup>nd</sup>	7. Control the speed of a DC shunt motor by field flux control
	27/04/2022	method.
oth	a st	
8"	1 <sup>st</sup>	8.Control the speed of a DC shunt motor by armature voltage
	29/04/2022	control method. (Contd.)
	2 <sup>nd</sup>	8. Determine the armature current vs. speed characteristic of a DC
	04/05/2022	motor(Contd.)
9 <sup>th</sup>	1 <sup>st</sup>	8. Determine the armature current vs. speed characteristic of a DC
	06/05/2022	motor
	2 <sup>nd</sup>	9. Determine the efficiency of a DC machine by brake test method.
	11/05/2022	(Contd.)
10 <sup>th</sup>	1 <sup>st</sup>	9. Determine the efficiency of a DC machine by brake test method.
	13/05/2022	(Contd.)
	2 <sup>nd</sup>	9. Determine the efficiency of a DC machine by brake test method.
	18/05/2022	
11 <sup>th</sup>	1 <sup>st</sup>	10 Identification of terminals, determination of voltage
	20/05/2022	transformation ratio of a Single Phase Transformer(Contd.)
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	2 <sup>nd</sup>	10. Identification of terminals, determination of voltage
	25/05/2022	transformation ratio of a Single Phase Transformer (Contd.)
12 <sup>th</sup>	1 <sup>st</sup>	10. Identification of terminals, determination of voltage
	27/05/2022	transformation ratio of a Single Phase Transformer
	2 <sup>nd</sup>	11. Perform OC Test of a Single Phase Transformer.(Contd.)
	01/06/2022	
13 <sup>th</sup>	1 st	11 Perform SC test of a Single Phase Transformer (Contd.)
15	03/06/2022	11. Tenom se test of a single thase transformer. (conta.)
	2 <sup>nd</sup>	11. Perform SC test of a SinglePhaseTransformer.
	08/06/2022	
14th	1 <sup>st</sup>	12. Determine the voltage regulation of a Single Phase Transformer
	10/06/2022	at different loads.(contd.)
	2 <sup>nd</sup>	12. Determine the voltage regulation of a Single Phase Transformer
	Extra class	at different loads.
15 <sup>th</sup>	1 <sup>st</sup>	13. Polarity test of single phase transformer and parallel operation
	Extra class	of two single phase transformers.(contd.)
	2 <sup>nd</sup>	13. Polarity test of single phase transformer and parallel operation
	Extra class	of two single phase transformers.