LESSON PLAN FOR ELECTRICAL MACHINE LAB I [Pr. 1]

Discipline: Electrical Engineering	Semester: 4th	Name of the Teaching Faculty: CHANDRAMANI MAHAPATRA
Subject: ELECTRICAL MACHINE LAB I	No. of days/ per week class allotted: 6	Semester From Date : 04-02-2025 to Date: 17-05-2025 No. of Weeks: 15
Week	3 Class/ Day	Theory/ Practical Topics
		L. J. S.
1st	1st	Identification of different terminals of a DC machine by test lamp method and multi-meter method & to measure insulation resistance by megger.
	2nd	Identification of different terminals of a DC machine by test lamp method and multi-meter method & to measure insulation resistance by megger. [CONT.]
2nd	1st	2. Dimensional and material study of various parts of a DC machine.
	2nd	Dimensional and material study of various parts of a DC machine. [CONT.]
3rd	1st	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph.
	2nd	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph.[CONT.]
4th	1st	Plot External Characteristics of a DC shunt generator at constant speed.
2018	2nd	4. Plot External Characteristics of a DC shunt generator at constant
th	1st	Doubt clearing class
ELONG STORY	2nd	5. Study of Three point starter, connect and run a DC shunt motor & measure the no load current.
5th	1st	5. Study of Three point starter, connect and run a DC shunt motor & measure the no load current. [CONT.]
	2nd	Study of Four point starter, connect and run a DC compound motor & measure no load current.
th	1st	6. Study of Four point starter, connect and run a DC compound motor & measure no load current. [CONT.]
Company	2nd	7. Control the speed of a DC shunt motor by field flux control method & armature voltage control method.
th	1st	 Control the speed of a DC shunt motor by field flux control method & armature voltage control method. [CONT.]
	2nd	Doubt clearing class
th 1	1st	8. Determine the armature current vs. speed characteristic of a DC
	2nd	8. Determine the armature current vs. speed characteristic of a DC
	1st	Determine the armature current vs. speed characteristic of a DC Determine the efficiency of a DC machine by brake test method.
AUTHOR STORY	2nd	Determine the efficiency of a DC machine by brake test method.[CONT.]
th 1	Ist	10. Identification of terminals, determination of voltage transformation ratio of a single phase transformer.
2	nd !nd	10. Identification of terminals, determination of voltage transformation ratio of a single phase transformer.[CONT.]
th 1	st	Doubt clearing class
	Ind	11. Perform OC Test and SC test of a single phase transformer.
	Middel	11. Perform OC Test and SC test of a single phase transformer. [CONT.]
THE RESIDENCE OF	nd	 Determine the voltage regulation of a single phase transformer at different loads.

4th	1st	12. Determine the voltage regulation of a single phase transformer at
		different loads.[CONT.] 13. Polarity test of single phase transformer and parallel operation of
	2nd	two single phase transformers
5th	1st	13. Polarity test of single phase transformer and parallel operation of
	2nd	two single phase transformers.[CONT.] Submission of pratical records
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