

LESSON PLAN

DEPARTMENT OF ELECTRICAL ENGINEERING, ITT, CHOUDWAR

SUBJECT: ELECTRICAL LAB PRACTICE -1 **Periods:** 6 per week **SEMESTER:** 4TH

NAME OF FACULTY: S.PANI & B.P SWAIN

No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1st	1 st	Identification of different terminals of a DC machine by test lamp method and multimeter method & to measure insulation resistance by megger
	2 nd	Identification of different terminals of a DC machine by test lamp method and multimeter method & to measure insulation resistance by megger
2 nd	1 st	Dimensional and material study of various parts of a DC machine
	2 nd	Dimensional and material study of various parts of a DC machine
3 rd	1 st	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph.
	2 nd	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph.
4 th	1 st	Plot External Characteristics of a DC shunt generator at constant speed
	2 nd	Plot External Characteristics of a DC shunt generator at constant speed
5 th	1 st	Study of Three point starter, connect and run a DC shunt motor & measure the no load current.
	2 nd	Study of Three point starter, connect and run a DC shunt motor & measure the no load current.
6 th	1 st	Study of Four point starter, connect and run a DC compound motor & measure no load current
	2 nd	Study of Four point starter, connect and run a DC compound motor & measure no load current
7 th	1 st	Control the speed of a DC shunt motor by field flux control method & armature voltage control method
	2 nd	Control the speed of a DC shunt motor by field flux control method & armature voltage control method
8 th	1 st	Determine the armature current vs. speed characteristic of a DC motor
	2 nd	Determine the armature current vs. speed characteristic of a DC motor
9 th	1 st	Determine the efficiency of a DC machine by brake test method
	2 ND	Determine the efficiency of a DC machine by brake test method
10 th	1 st	Identification of terminals, determination of voltage transformation ratio of a single phase transformer
	2 nd	Identification of terminals, determination of voltage transformation ratio of a single phase transformer
11 th	1 st	Perform OC Test and SC test of a single phase transformer
	2 nd	Perform OC Test and SC test of a single phase transformer
12 th	1 st	Determine the voltage regulation of a single phase transformer at different loads.
	2 nd	Determine the voltage regulation of a single phase transformer at different loads.
13 th	1 st	Polarity test of single phase transformer and parallel operation of two single phase transformers
	2 nd	Polarity test of single phase transformer and parallel operation of two single phase transformers

14 th	1 st	
	2 nd	
15 th	1 st	SESSTIONAL
	2 nd	

Teaching Faculty