


Discipline: ELECTRICAL ENGG	Semester: 4 th	Name of the Teaching Faculty: J. BINOD KUMAR
Subject: ELECTRICAL MACHINE LAB 1	No. of Days/per week class allotted:06	Semester From Date: 15/04/21 To Date: 13/08/21 No. of Weeks 15
Week	Class Day	Theory/Practical Topics
1 ST	01	Identification of different terminals of a DC machine by test lamp method and multimeter method & to measure insulation resistance by megger
	02	Identification of different terminals of a DC machine by test lamp method and multimeter method & to measure insulation resistance by megger
2 ND	01	. Dimensional and material study of various parts of a DC machine
	02	Dimensional and material study of various parts of a DC machine
3 RD	01	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph
	02	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph
4 th	01	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph
	02	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph
5 th	01	Plot External Characteristics of a DC shunt generator at constant speed
	02	Plot External Characteristics of a DC shunt generator at constant speed
6 th	01	. Study of Three point starter, connect and run a DC shunt motor & measure the no load current
	02	Study of Three point starter, connect and run a DC shunt motor & measure the no load current
7 th	01	Study of Four point starter, connect and run a DC compound motor & measure no load current.
	02	Study of Four point starter, connect and run a DC compound motor & measure no load current.
8 th	01	Control the speed of a DC shunt motor by field flux control method & armature voltage control method.
	02	Control the speed of a DC shunt motor by field flux control method & armature voltage control method
9 th	01	Determine the armature current vs. speed characteristic of a DC motor
	02	Determine the armature current vs. speed characteristic of a DC motor
10 th	01	Determine the efficiency of a DC machine by brake test method


 15/04/21
 Lecturer in
 Govt. Polytechnic Malkangiri

