PNS SCHOOL OF ENGINEERING AND TECHNOLOGY		
Branch: Electrical Engineering	Semester: 4TH	Name of the DEmonstrator: **Sushree Sangita Prusty.**
Subject: EML I	No of Classes Alloted in a Week: 2	Duration of Semester: 14.2.2023 - 23.5.2023
Week	Class Day	Theory / practical Topic
1st	1	Identification of different terminals of a DC machine by test lamp method and multimeter method & to measure insulation resistance by megger.
	2	Identification of different terminals of a DC machine by test lamp method and multimeter method & to measure insulation resistance by megger.
2nd	1	Dimensional and material study of various parts of a DC machine.
	2	Dimensional and material study of various parts of a DC machine.
3rd	1	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph.
	2	Plot OCC of a DC shunt generator at constant speed and determine critical resistance from the graph.
4th	1	Plot External Characteristics of a DC shunt generator at constant speed.
	2	Plot External Characteristics of a DC shunt generator at constant speed.
5th	1	Study of Three point starter, connect and run a DC shunt motor & measure the no load current.
	2	Study of Three point starter, connect and run a DC shunt motor & measure the no load current.
6th	1	Study of Four point starter, connect and run a DC compound motor & measure no load current.
	2	Study of Four point starter, connect and run a DC compound motor & measure no load current.
7th	1	Control the speed of a DC shunt motor by field flux control method & armature voltage control method.
	2	Control the speed of a DC shunt motor by field flux control method & armature voltage control method.
8th	1	Determine the armature current vs. speed characteristic of a DC motor
	2	Determine the armature current vs. speed characteristic of a DC motor
9th	1	Determine the efficiency of a DC machine by brake test method.
	2	Determine the efficiency of a DC machine by brake test method.
10th	1	Identification of terminals, determination of voltage transformation ratio of a single phase transformer.
	2	Identification of terminals, determination of voltage transformation ratio of a single phase transformer.
11th	1	Perform OC Test and SC test of a single phase transformer.
	2	Perform OC Test and SC test of a single phase transformer.
12th	1	Determine the voltage regulation of a single phase transformer at different loads.
	2	Determine the voltage regulation of a single phase transformer at different loads.
13th	1	Polarity test of singlephase transformer and parallel operation of two single phase transformers.
	2	Polarity test of singlephase transformer and parallel operation of two single phase transformers.

Signature of the Demonstrator

Signature of the H.O.D.