

DHABALESWAR INSTITUTE OF POLYTECHNIC

LESSON PLAN

Discipline: Elect. Engg	Semester: 4th	Name of the Teaching Faculty Pranav Kumar Mahapatra
Subject: EML-1	No. of days per week Class Allotted: 6 / week	Semester from Dt. 14/02/2023 to Dt. 23/05/2023 No. of Weeks: 15
Week	Class Day	Theory / Practical Topics
1st	1st day 2nd day	- Identification of different terminals of a dc machine by test lamp method and multi meter method and to measure insulation resistance by megger.
2nd	1st day 2nd day	- Dimensional and material study of various parts of DC machine.
3rd	1st day 2nd day	- plot OCC of a dc shunt generator at constant speed & determine critical resistance from the graph.
4th	1st day 2nd day	- plot external characteristic of a DC shunt generator at a constant speed.
5th	1st day 2nd day	- Study of 3-point starter, connect and run a dc shunt motor & measure no load current.
6th	1st day 2nd day	- Study of 4-point starter, connect and run a DC Compound motor & measure no load current.
7th	1st day 2nd day	- Control the speed of a dc shunt motor by field control method and armature control method.
8th	1st day 2nd day	- Determine the armature current & speed characteristic of a DC motor.
9th	1st day 2nd day	- Determine the efficiency of a dc machine by brake test method.
10th	1st day 2nd day	- Identification of terminals, determination of voltage transformation ratio of a single phase transformer.
11th	1st day 2nd day	- Perform OC test and SC test of a single phase transformer.
12th	1st day 2nd day	- Determination the voltage regulation of a single phase transformer at different loads.