

LESSON PLAN

(Academic Session: Aug to Dec 2026)

Program Name	Electrical Engineering
Course Title	ELECTRICAL MOTORS AND TRANSFORMERS LABORATORY
Course Code	EEPC215
Semester	3 rd
Course Teacher Name	Er. Pankaj Sundle

Evaluation Scheme

Sr. No.	Subject Code	Subject	Study Scheme			Total Study Hours	Cr edits	Evaluation Scheme									Total Marks
			Th	Pr	DCS			Internal Assessment			External Assessment						
								Th	Pr	Total	Th	Hrs	Pr	Hrs	Total		
1	EEPC215	EM & T Lab	-	2	0	2	1	-	40	40	-	-	60	3	60	100	

Course outcomes: The theory, practical experiences and relevant soft skills associated with this course are to be taught and implemented, so that the student demonstrates the following industry oriented COs associated with the above mentioned competency:

- A. Maintain different types of DC generators.
- B. Maintain different types of DC motors.
- C. Maintain single phase transformer.
- D. Maintain three phase transformers.
- E. Maintain different types of special purpose transformers used in different applications.

Practical Performing Plan

No. of Lab. Classes Planed	Practical to be perform/conduct	Proposed date (as per time table)		Actual Date		Remarks
		G-I	G-II	G-I	G-II	
1.	Dismantle a DC machine.	06/08/26 & 13/08/26	04/08/26 & 11/08/26			
2.	Reverse the direction of rotation of the DC shunt motor	20/08/26	18/08/26			
3.	Perform brake test on DC shunt motor.	27/08/26	25/08/26			
4.	Control the speed of DC shunt motor by different methods.	03/09/26 & 10/09/26	01/09/26			
5.	Control the speed of DC series motor by different methods.	17/09/26	08/09/26			
6.	Perform the brake test on	24/09/26	15/09/26			

	DC series motor.					
7.	Check the functioning of single phase transformer.	01/10/26	22/09/26			
8.	Determine regulation and efficiency of single phase transformer by direct loading.	08/10/26 & 15/10/26	29/09/26			
9.	Perform open circuit and short circuit test on single phase transformer to determine equivalent circuit constants, voltage regulation and efficiency.	22/10/26	06/10/26			
10.	Perform parallel operation of two single phase transformers to determine the load current sharing.	29/10/26	13/10/26			
11.	Perform parallel operation of two single phase transformers and determine the apparent and real power load sharing.	19/11/26	27/10/26			
12.	Connect the auto-transformer in step-up and step-down modes noting the input/output readings.	26/11/26	17/11/26			

Prepared by

Pankaj Sundar

Recommended for approval please.

Checked by

HoD(E.E.)

Approved by

Principal
ABVGIET Pragatinagar

