

LESSON PLAN FOR ACADEMIC SESSION: 2026-27(Winter)

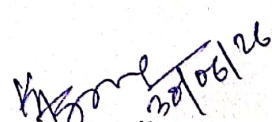
Discipline: Electrical Engineering	Semester : 5th	Name of the Teaching Faculty : Pratima Bhoi (Sr. Lecturer, Electrical Engg.)
Subject :Industrial Automation & Drives Laboratory	No. of days / week class allotted	Semester From : 1/07/2026 to 05/11/2026 Nos. of Weeks per semester : 15
Week	Class Day	Theory Topics
1 ST	1 st	Identify various automation systems available in different appliances/ devices/ machines in industry
	2 nd	
2 ND	1 st	Identify various parts of the given PLC and front panel status indicators.
	2 nd	
3 RD	1 st	Use PLC to test the START STOP logic using two inputs and one output.
	2 nd	
4 TH	1 st	Develop/Execute a ladder program for the given application using following: - timer, counter, comparison
	2 nd	
5 TH	1 st	Evaluation and Viva voce
	2 nd	
6 TH	1 st	Develop/Execute a ladder program for the given application using following: - logical, arithmetic instructions
	2 nd	
7 TH	1 st	Use PLC to control the following devices like lamp, motor, push button switches, proximity
	2 nd	
8 TH	1 st	Develop / test the Ladder program for sequential control application of lamps/ DC motors.
	2 nd	
9 TH	1 st	Develop ladder program for Traffic light control system.
	2 nd	
10 TH	1 st	Evaluation and Viva voce
	2 nd	
11 th	1 st	Dismantle the given DC motor / AC motor to identify its different parts
	2 nd	
12 th	1 st	Control the speed of DC Motor using armature voltage control / field current control method
	2 nd	
13 th	1 st	Control the speed of three phase squirrel cage induction motor using stator voltage control
	2 nd	
14 th	1 st	Revision
	2 nd	
15 th	1 st	Evaluation and Viva voce
	2 nd	


20/6/26

Prepared by
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20/06/26

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