GOVERNMENT POLYTECHNIC NUAPADA DEPARTMENT OF ELECTRICAL ENGINEERING

LESSON PLAN

DISCIPLINE: ELECTRICAL ENGINEERING	SEMESTER: 5 TH SEM	NAME OF THE TEACHING FACULTY: MR. MUKESH KUMAR SAHU		
SUBJECT: PR-2: PE&PLC LAB	NO. OF DAYS/WEEK CLASS ALLOTTED: 03	SEMESTER FROM DATE: 15-09-2022 TO 22-12-2022 NO. OF WEEKS ALLOTTED: 14 WEEKS		
WEEK	CLASS DAY	DATE	THEORY / PRACTICAL TOPICS	
			LIST OF EXPERIMENTS (I) Power Electronics	
1 ST	01	15-09-2022	Study of switching characteristics of a power transistor.	
2 ND	01	22-09-2022	2. Study of V-I characteristics of SCR.	
3 RD	01	29-09-2022	3. Study of V-I characteristics of TRIAC.	
4 TH	01	13-10-2022	4. Study of V-I characteristics of DIAC.	
5 TH	01	20-10-2022	5. Study of drive circuit for SCR & TRIAC using DIAC.	
6 ^{тн}	01	27-10-2022	6. Study of drive circuit for SCR & TRIAC using UJT	
7 TH	01	03-11-2022	7. To study phase-controlled bridge rectifier using resistive load.	
8 TH	01	10-11-2022	8. To study series Inverter.	
			9. Study of voltage source Inverter.	
9 ^{тн}	01	17-11-2022	10. To perform the speed control of DC motor using Chopper.	
10 TH	01	24-11-2022	11. To study single-phase Cyclo-converter	

			(II) PLC Programming
11 TH	01	01-12-2011	Introduction/Familiarization PLC Trainer & its Installation with PC (a) Learn the basics and hardware components of PLC (b) Understand configuration of PLC system (c) Study various building blocks of PLC (d) Determine the No. of digital I/O & Analog I/O
. 12 TH	01	08-12-2022	Execute the different Ladder Diagrams (a) Demonstrate PLC and Ladder diagram Preparation downloading and running (b) Execute Ladder diagrams for different Logical Gates (c) Execute Ladder diagrams using timers & counters
13 TH	01	15-12-2022	Execute the Ladder Diagrams with model applications (i) DOL starter (ii)Star- Delta starter
14 TH	01	22-12-2022	4. Execute Ladder diagrams with model applications (i) Stair case lighting (ii)Traffic light controller REVISION CLASSES Q&A DISCUSSION

Mukesh Kumar Calu.

Sign. Of Faculty

Sign. Of H.O.D.

Sign. Of Academic Coordinator

Principal Govt. Polytechnic Nuapada