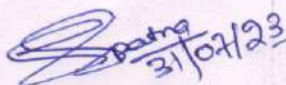


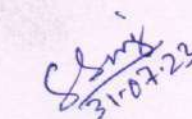
# GOVERNMENT POLYTECHNIC NUAPADA

## LESSON PLAN

DISCIPLINE : ELECTRICAL ENGINEERING			SEMESTER : 5TH SEM	NAME OF TEACHING FACULTY : ER. MUKESH KUMAR SAHU		
SUBJECT : PR-2: POWER ELECTRONICS AND PLC LAB			NO. OF DAYS / PER WEEK CLASS ALLOTMENT: 3P/WEEK	SEMESTER FROM Dt : 01/08/23 TO Dt: 30/11/23 NO OF WEEKS : 14		
Sl. No	MONTH/ WEEK AUG, SEP, OCT, NOV, DEC	CLASS DAY	DATE	THEORY / PRACTICAL TOPICS	Period Distribution	
1	1ST	01	02/08/23	Study of switching characteristics of a power transistor	3	
2	2ND	01	09/08/23	Study of V-I characteristics of SCR	3	
3	3RD	01	16/08/23	Study of V-I characteristics of TRIAC	3	
4	4TH	01	23/08/23	Study of V-I characteristics of DIAC	3	
5	5TH	01	13/09/23	Study of drive circuit for SCR and TRIAC using DIAC	3	
6	6TH	01	27/09/23	Study of drive circuit for SCR and TRIAC using UJT	3	
7	7TH	01	04/10/23	To study the phase controlled bridge rectifier using resistive load	3	
8	8TH	01	11/09/23	To study series inverter	3	
9	9TH	01	18/10/23	Study of voltage source inverter	3	
10	10TH	01	01/11/23	To perform the speed control of DC motor using chopper	3	
11	11TH	01	08/11/23	To study single-phase cyclo-converter	3	
12	12TH	01	15/11/23	Introduction/familiarisation PLC trainer and its installation with PC. (A) learn the basic and hardware components of PLC (B) Understand the configuration of PLC system (C) Study various building block of PLC (D) Determine the number of digital I/O and analog I/O (E) Execute the different ladder programs: (A) Demonstrate PLC and ladder diagram- preparation downloading and running (B) Execute ladder diagram for different logic gates (C) Execute ladder diagram using timer and counters	3	
13	13TH	01	22/11/23	Execute the ladder diagram with model application: (A) DOL- starter (B) Star-Delta starter	3	
14	14TH	01	29/11/23	Execute the ladder diagram with model application: (A) Stair-case lighting (B) Traffic-light controller	3	

  
Signature of Faculty

  
Signature of H.O.D.

  
Signature of A.C.

  
PRINCIPAL  
GP NUAPADA

# LESSION PLAN FOR ACADEMIC SESSION:- 2023-24

	2 <sup>nd</sup> (10.11.2023)	Study of an earth fault relay
15th	1 <sup>st</sup> (14.11.2023)	Re- demonstration of experiment where required as per assessment.
	2 <sup>nd</sup> (17.11.2023)	Re- demonstration of experiment where required as per assessment.
16th	1 <sup>st</sup> (21.11.2023)	Re- demonstration of experiment where required as per assessment.
	2 <sup>nd</sup> (24.11.2023)	Re- demonstration of experiment where required as per assessment.
17 <sup>th</sup>	1 <sup>st</sup> (28.11.2023)	Re- demonstration of experiment where required as per assessment.

*[Signature]*  
29/07/23

Teaching Faculty

*[Signature]*  
29/07/23

Program Coordinator (E.E)

*[Signature]*  
29.07.23

Academic

*[Signature]*  
29/07/23

PRINCIPAL

GOVT. POLYTECHNIC, NUAPADA