Discipline – Electrical Engg	Semester 5 th	NAME OF THE TEACHING FACULTY- SIBANI PANDA, LECT(ELE	ст.)	
SUB- PE & PLC LAB	No Of Days Per Week Class Alloted- 6 P	SEMESTER FROM 01.08.2023 to 30.11.2023 NO OF WEEK – 15 WEEKS		
Week	ClassDay	Topics	Statu	
	Group1 (3p)	1.Study of switching characteristics of a power transistor		
1st	Group2 (3p)	1.Study of switching characteristics of a power transistor		
	Group1 (3p)	2.Study of V-I characteristics of SCR		
2nd	Group2 (3p)	2.Study of V-I characteristics of SCR		
ā.	Group1 (3p)	3.Study of V-I characteristics of TRIAC.		
3rd	Group2 (3p)	3.Study of V-I characteristics of TRIAC.		
	Group1 (3p)	4. Study of V-I characteristics of DIAC.		
4th	Group2 (3p)	4. Study of V-I characteristics of DIAC.		
	Group1 (3p)	5. Study of drive circuit for SCR & TRIAC using DIAC.		
5 th	Group2 (3p)	5. Study of drive circuit for SCR & TRIAC using DIAC.		
	Group1 (3p)	6. Study of drive circuit for SCR & TRIAC using UJT.		
6 th	Group2 (3p)	6. Study of drive circuit for SCR & TRIAC using UJT.		
7 th	Group1 (3p)	7. To study phase controlled bridge rectifier using resistive load.		
	Group2 (3p)	7. To study phase controlled bridge rectifier using resistive load.		
8 th	Group1 (3p)	8. To study series Inverter.		

	Group2 (3p)	8. To study series Inverter.	
9 th	Group1 (3p)	9. Study of voltage source Inverter	
	Group2 (3p)	9. Study of voltage source Inverter	
10 th	Group1 (3p)	10. To perform the speed control of DC motor using Chopper.	
	Group2 (3p)	10. To perform the speed control of DC motor using Chopper.	
11 th	Group1 (3p)	11. To study single-phase Cyclo-converter	
	Group2 (3p)	11. To study single-phase Cyclo-converter	
12 th	Group1 (3p)	12. 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	
	Group2 (3p)	12. 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	
13 th	Group1 (3p)	13. 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	
	Group2 (3p)	13. 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	
14 th	Group1 (3p)	14. Execute the Ladder Diagrams with model applications (i) DOL starter (ii)Star- Delta starter	
	Group2 (3p)	14. Execute the Ladder Diagrams with model applications (i) DOL starter (ii)Star- Delta starter	
15 th	Group1 (3p)	15. Execute Ladder diagrams with model applications (i) Stair case lighting (ii) Traffic light controller	
	Group2 (3p)	15. Execute Ladder diagrams with model applications (i) Stair case lighting (ii) Traffic light controller	a a

Jan 31. 7.23