DISCIPLINE		SEMESTER NAME OF THE TEACHING FACULTY		FACULTY
ELECTRICAL		5TH	5TH MISS.SINDHUJA PANIGRAHI(PTGF)	
SUBJECT: Power Electronics & PLC Lab		NO. OF DAYS PER WEEK CLASS ALLOTED : 03  SEMESTER FROM 01/07/2024 T016/12/24  NO. OF WEEKS 15 NOS.		
				NO. OF WEEKS
WEEKS	CLASS DAYS		THEORY TOPICS	13 1403.
1ST WEEK	1ST	Study of V-I c	haracteristics of SCR	
	2ND	Study of V-I characteristics of SCR		
	3RD	Study of V-I characteristics of SCR		
2ND WEEK	1ST	To study phase controlled bridge rectifier using resistive load.		
	2ND	To study phase controlled bridge rectifier using resistive load.		
	3RD	To study phase controlled bridge rectifier using resistive load.		
3RD WEEK	1ST	To study single-phase Cyclo-converter		
	2ND	To study single-phase Cyclo-converter		
	3RD	To study single-phase Cyclo-converter		
4TH WEEK	1ST	To perform the speed control of DC motor using Chopper.		
	2ND	To perform the speed control of DC motor using Chopper.		
	3RD	To perform the speed control of DC motor using Chopper.		
5TH WEEK	1ST	To study series Inverter.		
	2ND	To study serie	es Inverter.	
	3RD	To study series Inverter.		
6TH WEEK	1ST	Study of drive circuit for SCR & TRIAC using DIAC.		
	2ND	Study of drive circuit for SCR & TRIAC using DIAC.		
	3RD	Study of drive circuit for SCR & TRIAC using DIAC.		
And the second	1ST	Introduction/Familiarization PLC Trainer & its Installation with PC		
7TH WEEK	2ND	Learn the basics and hardware components of PLC		
	3RD	Understand configuration of PLC system,		
8TH WEEK	1ST	Study various building blocks of PLC		
	2ND	Determine the No. of digital I/O & Analog I/O		
	3RD	Demonstrate PLC and Ladder diagram-Preparation downloading and running		
9TH WEEK	1ST	Execute Ladder diagrams for different Logical Gates		
	2ND	Execute Ladder diagrams for different Logical Gates		
	3RD	Execute Ladder diagrams for different Logical Gates		
10TH WEEK	1ST	Execute Ladder diagrams for different Logical Gates		
	2ND	Execute Ladder diagrams for different Logical Gates		
	3RD	Execute Ladder diagrams for different Logical Gates		
	1ST	Execute Ladder diagrams using timers		
11TH WEEK	2ND	Execute Ladder diagrams using timers		
	3RD	Execute Ladder diagrams using timers		
12TH WEEK	1ST	Execute Ladder diagrams using counters		
	2ND	Execute Ladder diagrams using counters		
	3RD	Execute Ladder diagrams using counters		
	1ST	Execute the	Ladder Diagrams with model applications with DO	or starter
13TH WEEK	2ND	Execute the Ladder Diagrams with model applications with DOL starter		L starter

	3RD	Execute the Ladder Diagrams with model applications with DOL starter	
14TH WEEK	1ST	Execute Ladder diagrams with model applications (i) Stair case lighting	
	2ND	Execute Ladder diagrams with model applications (i) Stair case lighting	
	3RD	Execute Ladder diagrams with model applications (i) Stair case lighting	
	1ST	Repetion of Missing experiments	
15TH WEEK	2ND	Repetion of Missing experiments	
	3RD	Repetion of Missing experiments	

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