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| Discipline: | Semester: | Name of the Teaching Faculty : ABHIPSA DUTTA |
| Subject: POWER ELECTRONICS & PLC LAB | No. of periods/ per week class allotted:3P | Semester from date: 15.09.2022 To Date:22.12.2022 |
| | | No. of Weeks:15 |
| Week | Class Day | Practical Topics |
| 1st | 1ST | Study of V-I characteristics of SCR |
| 2nd | 1ST | Study of V-I characteristics of TRIAC |
| 3rd | 1ST | Study of V-I characteristics of DIAC. |
| 4th | 1ST | To study phase controlled bridge rectifier using resistive load |
| 5th | 1ST | To study series Inverter |
| 6th | 1ST | To perform the speed control of DC motor using Chopper |
| 7th | 1ST | To study single-phase Cyclo-converter |
| 8th | 1ST | Introduction/Familiarization PLC Trainer & its Installation with PC (a) Learn the basics and hardware components of PLC (b)(b)Understand configuration of PLC system (c) Study various building blocks of PLC (d) Determine the No. of digital I/O & Analog I/O |
| 9th | 1ST | Demonstrate PLC and Ladder diagram-Preparation downloading and running |
| 10th | 1ST | Execute Ladder diagrams for different Logical Gates |
| 11th | 1ST | Execute Ladder diagrams using timers & counters |
| 12th | 1ST | Execute the Ladder Diagrams with model applications (i) DOL starter (ii)Star- Delta starter |
| 13th | 1ST | Execute Ladder diagrams with model applications (i) Stair case lighting |
| 14th | 1ST | Execute Ladder diagrams with model applications (ii) Traffic light controller |
| 15th | 1ST | Practice class for students |