Module Name (Electrical Engineering)	Total Hours
Control Panel Wiring	50

Sr.	Topic name	Contents	Hours
1	Basics of electrical	1.1 Electrical terminology	4
	Engg.	1.2 Units of electrical measurement	
		1.3 Electrical symbols	
		1.4 Electrical safety	
2	Panel designing	2.1 Basics of relays, contactor, MCB, MCCB, ELCB, ACB, VCB	26
		etc	
		2.2 Designing of control circuits using contactors, relays,	
		timers etc	
		2.3 Different types starters: DOL & star delta starter for 3	
		phase motors with specification.	
		2.4 Practical wiring session on different controls.	
		2.5 Safety and management concepts of designing a project.	
3	Control panel	3.1 Different types of panels.	14
	wiring	3.2 Basic components to be installed in a panel.	
		3.3 Wiring details of panel.	
		3.4 Specification and physical dimension of components.	
		3.5 Earthing and cabling of panels- standard procedures.	
		3.6 P&i diagram preparation.	
4	Sensor interfacing	4.1 Types of sensor	06
		4.2 Specification of various sensor	
		4.3 Real time application of sensor	
		4.4 Interfacing of sensor by various components.	
		Total	50