

MYMENSINGH POLYTECHNIC INSTITUTE  
MYMENSINGH  
ELECTRONICS TECHNOLOGY  
SEMESTER PLAN ( 7<sup>TH</sup> SEMESTER)

T P C  
3 3 4

Subject- Industrial Automation & PLC (66874)

Week	Theory			Practical	
	Content (Specific Objective)	Activity		Content (Practical Job No)	Activity
		Class Test	Learning Materials		
1	1. Understand Relay Logic Control. (1.1-1.8)		Ref. books, white board, marker, duster.	1. Implementation of Basic Logic Gates Using Ladder diagram.	
2	2. Understand the Fundamentals of Programmable Logic Controller (PLC). (2.1-2.6)			Do	
3	3. Understand the Input output (I/O) module.. (3.1-3.8)			2. Car Parking Control Using PLC.	
4	4. Understand the memory system and I/O interaction. (4.1-4.7)	CT 1		Do	
5	5. Understand the PLC Ladder Diagram Programming. (5.1-5.6)			3. Automatic Traffic Light Control Using PLC.	
6	6. Understand the Internal Relay (IR) in PLC. (6.1-6.6)	QT 1		Do	
7	7. Understand the Jump, Call and Comparator. (7.1-7.6)			4. Water level Control Using PLC.	
8	<b>MID EXAM</b>			<b>MID EXAM</b>	
9	8. Understand the Timer in PLC. (8.1-8.4)			5. Washing Machine Control Using PLC.	
10	9. Understand the Counter in PLC. (9.1-9.4)	CT 2		Do	
11	10. Understand the Shift Register in PLC.. (10.1-10.5)			6. Oven Control Using PLC.	
12	11. Understand the GRAFCET. (11.1-11.4)			Do	
13	12.. Understand the Supervisory Control and Data Acquisition (SCADA). (12.1-12.4)	QT 2		6 .Sorting of Objects for Packaging Using PLC Based Control.	
14	13 Understand the Human Machine Interface(HMI) ..(13.1-13.6)			Do	
15	Understand the PLC and Networking. (14.1-14.4)			Review.	
16	Review.				

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