

# **Department of Electronics and Instrumentation**

# **KIET Group of Institutions, Ghaziabad**

## **Summary Report**

PLC Training is also designed to help delegates keep abreast of the latest PLC technologies and techniques available in this area, this tutorial offers an excellent opportunity for delegates to ask specific questions and exchange ideas relating to their own applications. The Programmable Logic Controller has evolved over the years and this course will provide the information required to make knowledgeable decisions about PLC applications in their individual manufacturing environments and allow for students to make well-informed decisions about existing control applications and to determine what is required for future applications. The **Department of Electronics and Instrumentation** organizes Summer School on Industrial Automation. This PLC training course will also allow students to determine if plant personnel are prepared to meet the new challenges of the ever-changing plant manufacturing environment or if personnel require additional training to meet these challenges.

### **COURSE OBJECTIVE**

1. To understand the generic architecture and constituent components of a Programmable Logic Controller.
2. To develop a software program using modern engineering tools and technique for **PLC** and **SCADA**.
3. To apply knowledge gained about PLCs and SCADA systems to real-life industrial applications. PLC Training is designed to instruct control professionals on how to successfully integrate a PLC into actual day-to-day industrial electrical processes. It not only deals with the hardware and software, but all the surrounding systems that must be compatible to achieve a safe and reliable control system. This training is generic in nature and applies to all types and manufacturers.

### **COURSE OUTCOME**

1. Students will be able to describe typical components of a Programmable Logic Controller.
2. Students will be able to explain the basic concepts of a Programmable Logic Controller.
3. Students will be able to state basic PLC terminology and their meanings.
4. Students will be able to explain and apply the concept of electrical ladder logic, its history, and its relationship to programmed PLC instruction.
5. Students will be able to explain the concept of basic digital electronics and data manipulation.
6. Students will be able to use timer, counter, and other intermediate programming functions.
7. Students will be able to design and program basic PLC circuits for entry-level PLC applications.
8. Students will be able to design and program a small, automated industrial production line.



HoD Sign

**KIET GROUP OF INSTITUTIONS, GHAZIABAD**  
**Summer School on Industrial Automation**

S. No.	ROLL NO.	Student Name	6/5/2017	6/6/2017	6/7/2017	6/8/2017	6/9/2017	6/12/2017	6/13/2017	6/14/2017	6/15/2017	6/16/2017
1	1302932040	SWATI MISHRA	P	P	P	P	P	P	P	P	P	P
2	1302932041	SWETA MISHRA	P	P	P	P	P	P	P	P	P	P
3	1302932042	VAIBHAV GARG	P	P	P	P	P	P	P	P	P	P
4	1302932044	VIVEK KUMAR	P	P	P	P	P	P	P	P	P	P
5	1302932045	VIVEK PANWAR	P	P	P	P	P	P	P	P	P	P
6	1302932015	HIMANSHU GUPTA	P	P	P	P	P	P	P	P	P	P
7	1302932016	JAYA SAHU	P	P	P	P	P	P	P	P	P	P
8	1302932034	SHREYA GUPTA	P	P	P	P	P	P	P	P	P	P

