Modules For Six Months Industrial Training
On
PLC SCADA AUTOMATION

1st Week

Introduction of Industrial Automation

- Introduction & Fundamentals of Automation
- Introduction to PLC & Its Application in Industries
- Needs & Benefits of PLC
- Types of PLC & Its families
- Functional Block of PLC

ALLEN BRADLEY PLC

- Introduction to Processors Modules
- Introduction to Ladder Logic
- Addressing Concept
- Programming of AND gate
- Communication of PLC with Software Program
- Programming of other basic logic gates

2nd Week

Basic Programming Instruction

- Input
- Output
- User
- Bit
- Timer

3rd Week

Advance instruction

- Counter
- Compare
- Compute
- Math
- Move
- File shift
- Program control

4th Week

SCADA SYSTEM

- Introduction to SCADA System & its Application
- Needs & Benefits of SCADA System
- Introduction to SCADA software
- Creating new application
- Creating and editing Tags
- Buttons, sliders, Pipe connections, civil & mechanical parts
- Real time and historical trends

5th Week

Industrial Applications

- Movement of Ball
- Bottle Fillings & Handling
- Conveyor belt control
- Car parking
- Traffic light control

6th Week

Panels Designing

- Introduction to electrical symbol of accessories used in panel designing

- Different types of panels
- PLC Sourcing & Sinking concept
- Power and control circuit
- General wiring guidelines /practice
- Common errors and troubleshooting of PLC panel

Introduction to circuit designing

- About Bread Board
- Introduction To Different Kinds of components
- Circuit designing on LDR based street light controller
- Circuit designing on IR remote
- Circuit designing on relay/buzzer
- Circuit designing on water level indicator

NOTE: MAJOR & MINOR PROJECTS WOULD BE DONE ON SOFTWARE TOOLS