

**A**  
**REPORT ON**  
**PLC AND SCADA WORKSHOP**



**COORDINATORS :- 1. Dr. P.K. Katti**

**2. Dr. K. Vadirajacharya**

**CONDUCTED BY :- Autotech Nashik**

**DATE OF WORKSHOP :- 30th July To 1st August**



**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL**  
**UNIVERSITY, LONERE**

**DEPARTMENT OF ELECTRICAL ENGINEERING**

# **PLC AND SCADA WORKSHOP**

## **INTRODUCTION :-**

The automation is an ever evolving domain, which requires constant innovation and technology advancement with the aim to instil a love and passion for electronic and automation in the youth and provide them with a platform to reach great heights, the Electrical Engineering Department had organised Workshop on 'Programmable Logic Controller' & 'Supervisory Control and Data Acquisition System' in our institute.

This workshop is conducted by the Autotech Nashik institute from 30<sup>th</sup> July 2018 to 1<sup>st</sup> August 2018. This was 3 days workshop having 6 sessions permitted by beloved HOD of Electrical Dept Dr. K Vadirajacharya and Dr. P.K.Katti. and under the supervision of Pritam Gaikwad.

This workshop was conducted by knowledgeable member of Autotech Nashik Mr. Pankaj Sonwane (Completed M.tech in Power electronics and working for Automation for last 3 years ) and their Assistants Er.Ashwini Sawant (Completed B.E.) and Er.Devendra Mapari (Persuing M.tech).

The fees taken for this workshop was 350rs per student .Total 61 student from 2nd ,3rd and 4th year had attended this workshop.

## **INAUGURATION :-**

Inauguration of this workshop had done by Dr.K .Vadirajacharya on the 30<sup>th</sup> July in the presence of member came from Autotech Nashik and students . Mr .Pankaj Sonwane gave us the basic idea about PLC and SCADA and its application in industry. Basically he introduced the essential knowledge of automation in day to day life .Also they covered the syllabus /topics that will be covered in 3 days .

The detailed information as per the schedule :-

## **DAY 1**

### **Session 1:-**

Basic knowledge of PLC and Ladder- In this session they gave us software ,we installed it on our PC and taught only basic use of PLC like symbols used in Industries ,different switches, proximity sensor (Transducer), hydraulic and pneumatic valves, relays and contactors.

### **Session 2:-**

After lunch break the 2nd session started. In this session we worked on Schneider software and learn while use of each function in it like Set -reset instruction, latching, memory bit, timers, counters and application of all this in industry by simple programming .

At the end of the day there was one small session for question and answering. Students asks their doubts or question raised in their mind related to or not related to PLC and SCADA . Mr.Pankaj Sonwane gave the answer of their questions faithfully.

## **DAY 2**

### **Session 3:-**

In this session, with new day we work on new concept that is analog programming, compare and arithmetic instruction with example and practical implementation of PLC. Then, After a short tea break we close Schneider and now its time for Siemens.

### **Session 4:-**

In this session the whole function of Siemens same as Schneider are performed. But due to some major problem in college this session was closed at 3PM.

## **DAY 3**

### **Session 5:**

This is the last day . 1st we work on Siemens practically by interfacing with it PLC trainer kit and transferring simple program in it. After this great experience, we close Siemens and moved to Delta. Delta is similar to Siemens but there were little difference .We learn all the function of delta and also transferring of program from PC to Kit.After a small tea break, now it's time for SCADA . We installed the SCADA software .

### **Session 6:-**

The last session, in this we worked on SCADA like Basics of SCADA ,SCADA programming, and most important interfacing of PLC and SCADA which is today's engineers need.

In this way all three days workshop ends successfully and last 1 hour was for question answering. Mr. Pankaj Sonwane gave answer of all question asked by the student .

Now it's the time for expressing gratitude :-

A small program was there in our classroom to express our gratitude to all by simple words. Students express their gratitude and experience of 3days workshop through words .Also beloved Dr. Katti gave us their valuable guidance ,they told us engineers are the Real Creators and the real skilful engineer is never unemployed .Our beloved HOD Dr. K. Vadirajacharya said that they will arrange more practical workshop to enhance our skill so that today's need of skilful engineer will be accomplished .Finally we gave a small but valuable gift a small plant to Autotech Nashik on behalf of our college.

In this way ,3days great workshop end.



PLC Programming



**Students giving workshop feedback**