PRABODHAN SHIKSHAN PRASARAK SANSTHA'S (Regd.No. E-697 Ratnagiri)
RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY
Recognised by AICTE, Affiliated to Mumbai University
Office : At & Po – Ambav (Devrukh)- 415804 Tal: Sangmeshwar, Dist: Ratnagiri, (Maharastra)
☎ : (02354) 260992• Fax: (02354) 261501 •Email :info@rmcet.com• Website : www.rmcet.com

Department of Electronics and Telecommunication Engineering

Report on workshop conducted:

Title: Industrial automation product (PLC, SCADA)

Resource person: Mr. Adwitiya Saha (Automation Faculty & Kishor Belhekar(Installation Engineer) Prolific Systems & Technologies Pvt. Ltd.

Coordinator: Mrs. P.P.Kshirsagar

About workshop:

The four day intensive workshop on **Industrial automation product (PLC, SCADA)** by Prolific Systems & Technologies Pvt. Ltd. to involve students in a cohesive drive with the academia and industry towards excellence in automation product technology. This workshop is an attempt to cover material relevant to giving students necessary knowledge and skill set to appreciate the rapid changing scenario in automation systems and take advantage of this in furthering their career. Practical/laboratory sessions are held, which will supplement the knowledge disseminated during the lecture sessions with adequate hands on experience.

Workshops are instructor-led, lab-intensive courses focused on the practical application of technologies through the facilitation of a project-related lab. Most parts of workshop are designed around 80% lab-time.

Duration

It's a four day workshop from 12ᵗʰ January 2019 to 15ᵗʰ January 2019. In this 4-day course, student gained valuable hands-on experience.

How many students have attended this workshop?

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Software Tools: Wonderware's in Touch

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Skills Gained: After completing this workshop, students are able to:

- Create and design new automation model by using PLC programming logic.
- Interface external peripheral by using SCADA software.
- Troubleshooting and fault diagnostics of PLC .

Course Contents

1) Programmable Logic Controller (PLC)	
Topics Covered	☐ Advanced instructions
☐ Role of PLC in automation	☐ File handling
☐ Introduction to PLC hardware	☐ Comment functions
☐ Architectural Evolution of PLC	☐ Master control /set /reset function
☐ PLC Fundamentals - (Block diagram of PLC's)	☐ Upload, download, Monitoring of programs
☐ Detail information about PLC components	☐ Forcing I/P & O/P
☐ Various ranges available in PLCs	☐ Monitoring / Modifying data table values
☐ Types of Inputs & outputs	☐ Troubleshooting
☐ Source Sink Concept in PLC	
☐ Concept of flags	
☐ Scan cycle execution	**2) Wonderware's In Touch (SCADA)**
Practical Exposure on PLC	☐ Creating a new SCADA application
☐ Introduction to PLC programming software	☐ Creating Database of Tags
☐ Addressing concepts	☐ Creating & editing graphic display with
☐ Introduction to bit, byte & word concept	☐ Animation.
☐ Programming instructions arithmetic and	☐ Creating Real-time & Historical Trends
☐ Logical	☐ Creating Alarms & Events
☐ Load /and /or/out / and Read / Write	☐ Writing logic through script
☐ Compare / Add / Sub /And /Or – Blocks	☐ Connectivity with PLC
☐ Leading edge / trailing edge instructions	☐ Connectivity between software (Excel)
☐ MOVE block application	☐ Troubleshooting the application
☐ Timer Blocks programming	
☐ Counter Block programming	

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Felicitation of resource person

Resource person solving students doubts

Group Photo

Kshirsagar P.P.

23/03/19
(HOD EXTC)