



Tulsiramji Gaikwad-Patil College of Engineering and Technology



Approved by AICTE, New Delhi,
Govt. of Maharashtra

(An Autonomous Institution Affiliated to RTM Nagpur University with
NAAC A+ Grade)
Session 2023-24 (Even Semester)

Department of Electrical Engineering

Report on Industry Expert Lecture

PLC & SCADA

“Industrial Automation with PLC SCADA”

21st March 2024

Industry Expert Lecture

“Industrial Automation with PLC SCADA”

Mode of Program: Offline

Duration: 3 hours

Guest Lecture Duration: 11.00 am to 02.00 pm

Total Students : 78 Students

Guest Speaker: Mr. Pranav Mehar Central Head (India), Prolific Nagpur

Coordinators of Program: Prof. Chetan Jambhulkar & Prof. Kunal Sawalakhe

Schedule of program:

1. Introduction of program
2. Lightening of Lamp
3. Soulful Prayer
4. Introductory Speech by Head of Department
5. Introduction of Guest Profile
7. Session by Guest
8. Felicitation of Guest
10. Vote of Thanks

Aim of Program:

The aim of an expert lecture on Industry Automation with PLC SCADA is to deepen participants' understanding of industrial automation technologies, focusing on the principles and applications of Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA) systems. The lecture aims to enhance participants' skills in designing, programming, and troubleshooting PLC and SCADA systems, preparing them for careers in the field of industrial automation.

Objectives of Program:

The objectives of the program on Industry Automation with PLC SCADA are as follows:

- **Conceptual Understanding:** Provide participants with a conceptual understanding of industrial automation, PLC, and SCADA systems, including their architecture, functionality, and applications.
- **Technical Skills:** Develop participants' technical skills in PLC and SCADA programming, configuration, and troubleshooting, enabling them to effectively work with these systems in industrial settings.
- **Industry Relevance:** Ensure that the program content is aligned with current industry practices and standards, enhancing participants' employability and readiness for the workforce.
- **Practical Application:** Offer hands-on training and practical exercises to allow participants to apply their knowledge in simulated industrial environments, reinforcing their learning outcomes.

Introduction of Program:

The program on Industry Automation with PLC SCADA is designed to provide participants with a comprehensive understanding of industrial automation technologies, focusing on Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA) systems. Industrial automation plays a crucial role in modern manufacturing and production processes, enhancing efficiency, productivity, and safety.

This program aims to equip participants with the knowledge and skills required to design, program, and troubleshoot PLC and SCADA systems, preparing them for careers in the field of industrial automation. Through a combination of theoretical learning and hands-on practical training, participants will gain a deep insight into the principles, components, and applications of PLC and SCADA systems, as well as the latest trends and developments in the industry.

By the end of the program, participants will have a strong foundation in industrial automation with PLC SCADA, making them valuable assets to companies seeking to automate their operations and improve their manufacturing processes.

About the Program:

The Program started with traditional Light Lamping by Guest and Faculties of department followed by Opening Remark by HoD and then brief introduction of Guest followed by session by Guest Mr. Pranav Mehar

The program on Industry Automation with PLC SCADA is designed to provide participants with a comprehensive understanding of industrial automation technologies,

focusing on Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA) systems. The program aims to equip participants with the knowledge and skills required to design, program, and troubleshoot PLC and SCADA systems, preparing them for careers in the field of industrial automation. Through a combination of theoretical learning and hands-on practical training, participants will gain insight into the principles, components, and applications of PLC and SCADA systems, as well as the latest trends and developments in the industry.

Mapping with PO:

This Program helps student to learn about

- 1) Engineering Knowledge
- 2) Conduct investigations of complex problems
- 3) Modern tool usage
- 4) Individual and team work
- 5) Lifelong Learning

Outcomes:

The outcomes of the program on Industry Automation with PLC SCADA includes:

1. **In-depth Knowledge:** Participants will gain a deep understanding of industrial automation technologies, specifically PLC and SCADA systems, including their principles, components, and applications.
2. **Technical Skills:** Participants will develop practical skills in designing, programming, and troubleshooting PLC and SCADA systems, enabling them to work effectively in industrial automation roles.
3. **Industry Readiness:** The program will prepare participants for careers in the field of industrial automation by ensuring they are familiar with current industry practices, standards, and trends.
4. **Hands-on Experience:** Participants will have the opportunity to apply their knowledge and skills in real-world industrial automation scenarios through hands-on practical training and simulations.
5. **Career Advancement:** Completion of the program will enhance participants' employability and career prospects in the field of industrial automation, making them valuable assets to companies seeking to automate their operations.

Overall, the program aims to equip students with the knowledge, skills, and practical experience required to excel in the field of industrial automation with PLC SCADA.

Conclusion:

In conclusion, the program on Industry Automation with PLC SCADA is a comprehensive and valuable learning experience for participants interested in pursuing careers in industrial automation. The program provides a thorough understanding of PLC and SCADA systems, including their principles, components, and applications, as well as hands-on training in designing, programming, and troubleshooting these systems. By completing this program, participants will be well equipped with the knowledge and skills needed to succeed in the field of industrial automation, making them valuable assets to companies looking to automate their processes and improve efficiency.

Acknowledgement:

On the behalf of Electrical Engineering Department we sincerely thank to expert “Mr. Pranav Mehar, Central Head (India) Prolific Nagpur, for accepting our invitation and Motivated our students with your in-depth knowledge.

Glimpses:



Welcome to the Chief Guest Mr. Pranav Mehar



GPS Map Camera

Nagpur, Maharashtra, India
X257+HF2, Nagpur, Maharashtra 441108, India

Lat 20.958851° Long 79.01387°

21/03/24 11:41 AM GMT +05:30

203

7.42 km/h

54%

1015 hpa

30.17° C

357° N

28.0 μT

Google



GPS Map Camera



Nagpur, Maharashtra, India
X257+HF2, Nagpur, Maharashtra 441108, India
Lat 20.958882° Long 79.013847°
21/03/24 11:45 AM GMT +05:30
205



30.17° C

224° SW

9.25 km/h

54%

1015 hpa

39.0 μT



GPS Map Camera



Nagpur, Maharashtra, India
X257+HF2, Nagpur, Maharashtra 441108, India
Lat 20.958829° Long 79.013892°
21/03/24 11:40 AM GMT +05:30
202



30.17° C

234° SW

7.42 km/h

54%

1015 hpa

45.0 μT

Google form Feedback link:

Link : <https://forms.gle/aTKAtsVBPvHeDG168>

Guest Lecture Feedback Form 📄 ☆ 🗨️ 👁️ ↶ ↷ Send

Questions Responses **51** Settings

Total points: 10

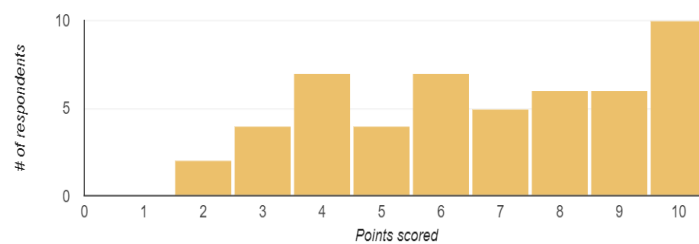
📊 Insights

Average
6.73 / 10 points

Median
7 / 10 points

Range
2 - 10 points

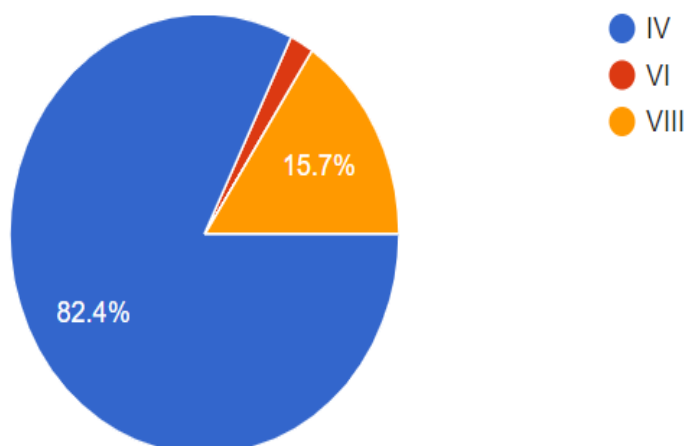
Total points distribution



Semester

51 responses

📄 Copy



pulatesanket@gmail.com	4	Mar 21 2:50 PM
swapnilb2002@gmail.com	10	Mar 21 2:50 PM
arpitjiwtode@gmail.com	9	Mar 21 2:50 PM
vedantikondhalkar.ee@tgpcet.com	4	Mar 21 2:50 PM
nitingaurkar2018@gmail.com	10	Mar 21 2:50 PM
harshikmate.ee@tgpcet.com	10	Mar 21 2:50 PM
tanmaybobade.ee@tgpcet.com	8	Mar 21 2:50 PM
tupeshbisen@gmail.com	10	Mar 21 2:50 PM

Regards



Mr. Chetan Jambhulkar
 Asst. Professor
 Department of Electrical Engineering
Coordinator of Program

Mr. Kunal Sawalakhe
 Asst. Professor
 Department of Electrical Engineering
Co-coordinator of Program

Dr. Pratik Ghutke
 Head,
 Department of Electrical Engineering