

Report on

Technical Talk on “Automation Accelerate: Empowering Entrepreneurs in PLC and SCADA Innovations”

Dates: 13th June 2024 at Dept. of ME, ATMECE, Mysore

Department of Mechanical Engineering in association with ISTE student chapter and IIC Organizing Technical Talk on **Automation Accelerate: Empowering Entrepreneurs in PLC and SCADA Innovations** for 4th and 6th semester of Mechanical Engineering students and 6th semester of Electrical Engineering students.

Inauguration of the workshop was held in the seminar hall of Mechanical Engineering department ATMECE at 11:30 A M after the registration of the participants. The Resources person of the Program was **Srnivasa Nayaka and Team**, IPCS, The Global Technology Service Provider, Mysore.

Dr. Chethan S, HOD ME, welcomed resource persons, staffs and students to the technical talk. **Dr. Mohanakumara K C**, Assistant Professor, Dept. of ME gives brief introduction about the resource persons.

During the talk, the following topics are discussed

Introduction to Automation:

Defined automation as the use of control systems to operate various equipment with minimal or reduced human intervention.

Highlighted the importance of automation in improving efficiency, reliability, and safety in industrial processes.

Role of PLC:

Explained PLC as a digital computer used for automation of electromechanical processes.

Discussed the key components of PLC: CPU (Central Processing Unit), memory, input/output modules, and programming interface.

Demonstrated how PLCs execute control functions based on logic programmed into them.

Fundamentals of SCADA:

Defined SCADA as a system of software and hardware elements that allows industrial organizations to control processes locally or remotely.

Emphasized SCADA's role in data acquisition, monitoring, and control of processes in real-time.

Showcased examples of industries where SCADA systems are crucial, such as power plants, water treatment facilities, and manufacturing plants.

**Department of Mechanical Engineering
in association with IIC & ISTE**

Organises A
Session On

**Automation Accelerate:
Empowering Entrepreneurs in
PLC & SCADA Innovations**

Date: 13th June 2024
Time: 11.00 AM

Resource Person

Mr. Srinivasa Nayaka
IPCS Global Technology Service Provider



Chief Patron

Sri. L Arun Kumar
Chairman, ATMECE

Patrons

Sri. K Shivashankar
Secretary, ATMECE

Sri. R Veeresh
Treasurer, ATMECE

Principal

Dr. L Basavaraj
Principal, ATMECE

Advisory Committee

Dr. Srinivasa K
President, IIC, ATMECE

Dr. Chethan S
HoD, Dept. of ME, ATMECE

Event Organizers

Dr. Mohanakumara K C
Assistant Professor

Mr. Hemanth B R
Vice – President, IIC, ATMECE

Mr. Rohith S
Convenor IIC, ATMECE

Mr. Niranjana Kumar V S
ISTE Coordinator

Venue: Mechanical Seminar Hall, ATMECE

Integration of Automation, PLC, and SCADA:

Illustrated how PLCs and SCADA systems work together to automate and manage industrial processes effectively.

Explained the communication protocols used between PLCs and SCADA systems (e.g., Modbus, Profibus) for seamless data exchange.

Future Trends and Innovations:

Discussed emerging trends such as IIoT (Industrial Internet of Things) and cloud-based SCADA systems.

Predicted advancements in machine learning and AI for predictive maintenance and process optimization in automation.

The technical talk provided valuable insights into the world of automation, PLC, and SCADA, highlighting their critical roles in modern industry. Participants gained a deeper understanding of how these technologies integrate to optimize industrial processes and improve overall operational efficiency. The session concluded with a Q&A session where attendees had the opportunity to discuss specific applications and challenges in implementing automation solutions.

Prof. Hemanth, Assistant Professor, Dept. of ME rendered vote of thanks.

Event Photos





Event Coordinators:

Prof. Hemanth B R, Vice-President, IIC, ATMECE, Mysuru

Prof. Rohith S, Convenor, IIC, ATMECE, Mysuru

Prof. Niranjan Kumar V S, Assistant Professor, Dept. of ME & ISTE Coordinator

Dr. Mohanakumara K C, Assistant Professor, Dept. of ME

Feedback-"Automation Accelerate: Empowering Entrepreneurs in PLC & SCADA Innovations"

27 Responses

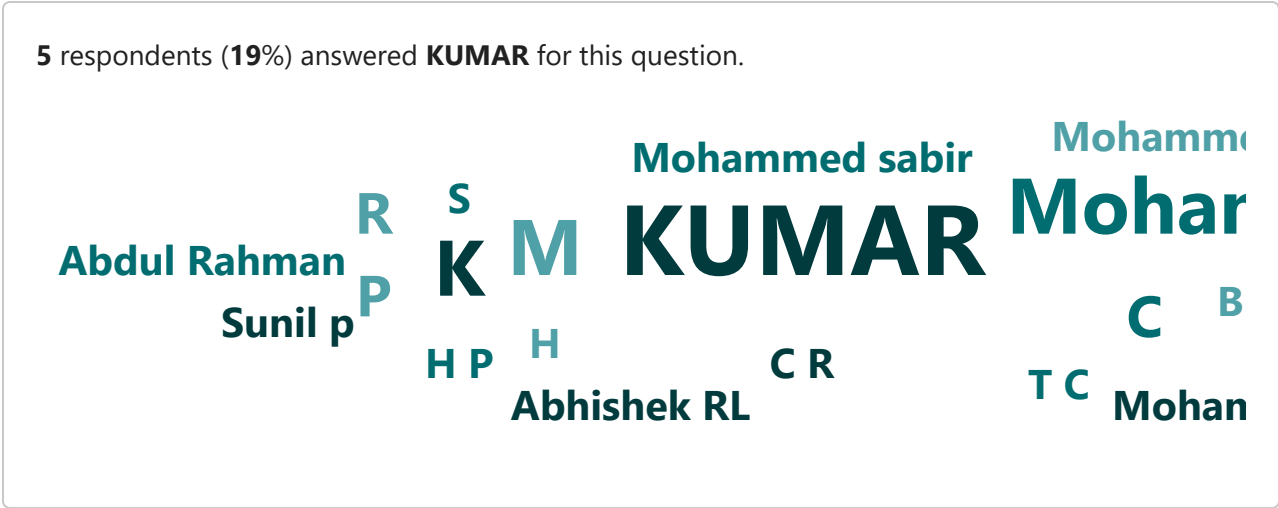
01:22 Average time to complete

Active Status

1. Name of the Participant

27
Responses

Latest Responses
"Amruth K M"
"Mohammed samiulla khan"
"HEMACHANDRAKUMAR B K "



2. Department

27
Responses

Latest Responses
"Mechanical "
"Mechanical engineering "
"MECHANICAL ENGINEERING "

10 respondents (37%) answered **Mechanical engineering** for this question.

E E
Mechanical engineer
E E E **Electrical and elec**

3. USN

27
Responses

Latest Responses
"4AD22ME002"
"4AD23ME408"
"4AD23ME403"

1 respondents (4%) answered **4AD21EE013** for this question.

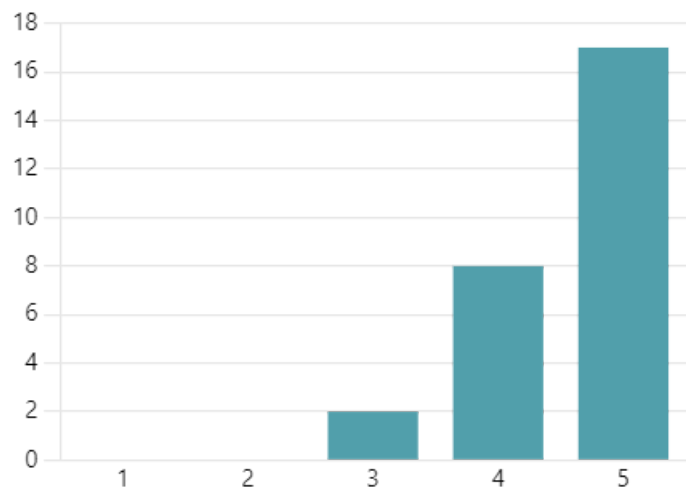
4AD23ME401 4AD22EE412
4AD22EE403 4AD22EE404 4AD23ME407 4AD23ME40
4AD21EE012 4AD22EE419 4AD21EE013 4AD22EE413 4A
4AD23ME400 4AD22ME401 4AD21ME008 4AD
4AD22ME002 4AD23ME403 4AD22ME006 4AD

4. Semester



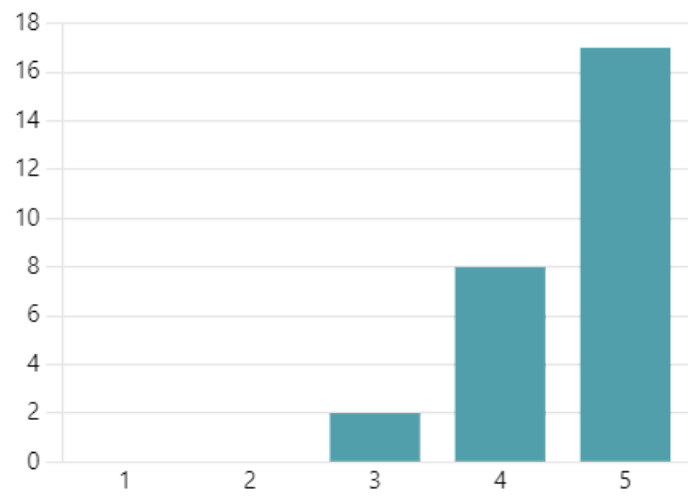
5. The session was valuable and added to my understanding of knowledge about the topic

4.56
Average Rating



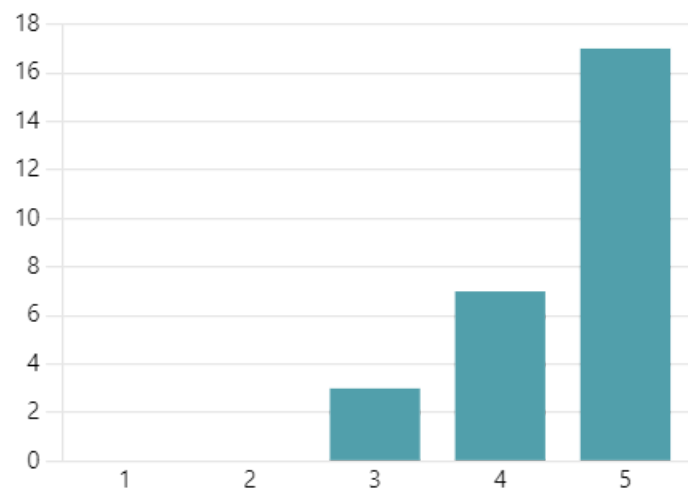
6. The content of the session met the expectations

4.56
Average Rating



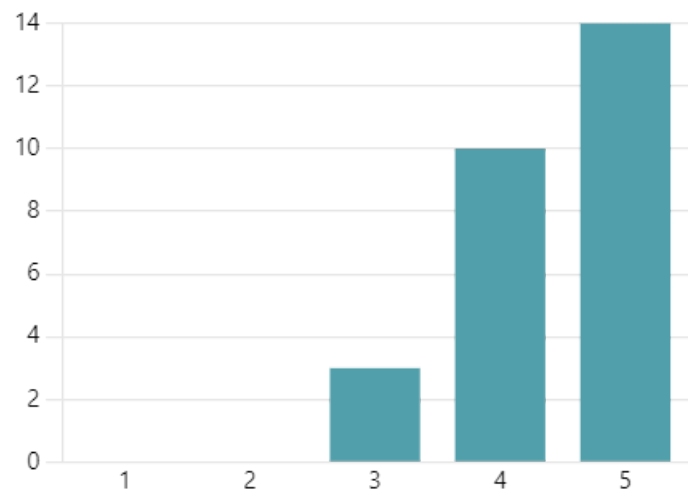
7. Rate the speaker presentation skills

4.52
Average Rating



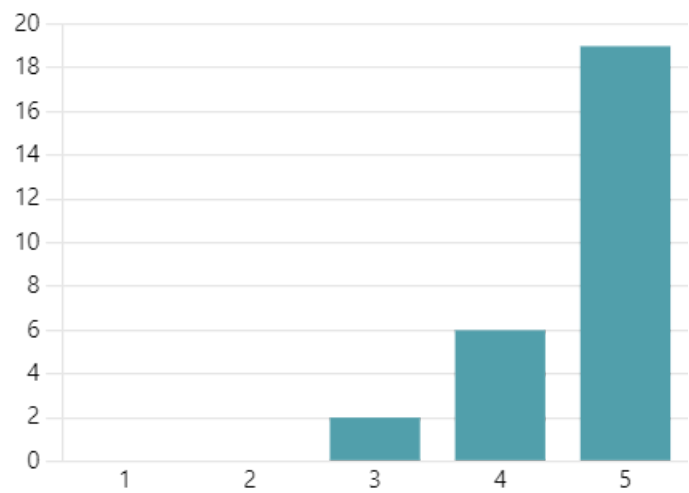
8. How likely would you recommend this session for a friend or others?

4.41
Average Rating



9. How would you rate the overall organization of the event?

4.63
Average Rating



10. Suggestions

27

Responses

Latest Responses

"The session was interesting. There no suggestions the sessio..."

"Use full"

"Nothing"

7 respondents (26%) answered **good** for this question.



A word cloud of feedback comments in teal and black text. The most prominent word is "good" in a large teal font. Other visible phrases include "useful course", "session was very good", "excellent", "Nice presentation", "Industrial automation is", "automation dom", "program was", "faculties", "session was interesting", "placement", and "No suggestions".