



Activity Report on

“ISTE Approved One Week Short Term Training Program on Advanced Industrial Automation and Process Control Using PLC & SCADA”

- **Title of the Program:** - ISTE Approved One Week Short Term Training Program on **Advanced Industrial Automation and Process Control Using PLC & SCADA**
- **Organized by:** - Department of Electronics & Telecommunication Engineering, MGI-COET, Shegaon.
- **Date :-** 26/07/2026 to 01/08/2026
- **Time:** 09:00 AM to 6:00 PM
- **Approved by :-** Indian Society for Technical Education (ISTE)
- **Venue:** - Room No.122, First Floor, MGI-COET, Shegaon, Maharashtra.
- **Duration :-** 7 Days
- **Audience:-** Students = 69 and Faculty =10
Total= 79
- **Mode :-** Offline
- **Drive link:-** <https://drive.google.com/drive/folders/1KLBYSauHJrUFuw9KIDlrG2hYwjYrFfeh>
- **Instructor:** 1) Mr. Mohan Patel 2) Mr. Hassan Sazil

Objective of the Training Program:-

The objective of "Advanced Industrial Automation and Process Control Using PLC & SCADA " is,

- To Understand the Concept PLC and SCADA
- To develop practical skills in PLC programming, troubleshooting, and industrial automation system implementation.
- To enable participants to design, configure, and operate SCADA and HMI applications for real-time industrial process monitoring and control.
- To impart knowledge of industrial communication, networking, and integration among PLC, HMI & SCADA systems.



- To familiarize participants with industrial Electronics & Electrical control circuits, motor control techniques, protection systems, and automation panel wiring.
- To enhance participants' ability to design, implement, troubleshoot, and maintain modern industrial automation systems used in manufacturing and process industries.

Overview of the Program:-

Industrial automation using PLCs and SCADA involves using programmable logic controllers (PLCs) for real-time control of industrial equipment and SCADA (Supervisory Control and Data Acquisition) systems for monitoring, data acquisition, and control of multiple processes or entire facilities. PLCs are essentially specialized computers that execute control logic based on sensor inputs, while SCADA systems provide a centralized interface for operators to supervise, control, and analyze data from various PLCs and other field devices.

Program Details:-

The brochure is for a training program organized by the Department of Electronics & Telecommunication Engineering at Mauli Group of Institution's, College of Engineering & Technology, Shegaon. It is an ISTE Approved One Week Short Term Training Program on "Advanced Industrial Automation and Process Control Using PLC & SCADA". The program is AICTE Approved and Affiliated to Sant Gadge Baba Amravati University, Amravati, ISO 9001:2015 Certified. The training dates are from 26/07/2026 to 01/08/2026, from 9 AM to 6 PM, at the Research Lab. Two resource persons are listed: Mr. Hassan Sazil with 7+ years of experience and Mr. Mohan Patel with 25+ years of experience. The brochure also features a photograph of the college building.

Late Purushottam Hari(Ganesh)Patil Shikshan Sanstha's
MAULI GROUP OF INSTITUTION'S
COLLEGE OF ENGINEERING & TECHNOLOGY
SHEGAON
AICTE Approved Affiliated to Sant Gadge Baba Amravati University, Amravati, ISO 9001:2015 Certified

Department of Electronics & Telecommunication Engineering
ISTE Approved
One Week Short Term Training Program on
"Advanced Industrial Automation and Process Control Using PLC & SCADA"

Date: 26/07/2026 to 01/08/2026
Time: 9 AM to 6 PM
Place: Research Lab.

Resource Person

Mr. Hassan Sazil
7+ years of experience

Mr. Mohan Patel
25+ years of experience

Brochure of ISTE Approved One Week STTP on "Advanced Industrial Automation and Process Control Using PLC & CADA"



Session Highlights:-

- **Programmable Logic Controller (Schneider Electric PLC)**
- **SCADA**
- **Human Machine Interface (HMI)**
- **Variable Frequency Drive**
- **Industrial Electrical Controls**

Some Snaps of One Week STTP / Highlights:-



Inauguration of STTP



Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's,
College of Engineering & Technology, Shegaon.
Department of Electronics & Telecommunication Engineering
Session: 2026-2027



Snap of Expert Talk by Instructor



Snap of Expert Talk by Instructor



Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's,
College of Engineering & Technology, Shegaon.
Department of Electronics & Telecommunication Engineering
Session: 2026-2027



Some Hands-On Practice Snap



Some Hands-On Practice Snap



Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's,
College of Engineering & Technology, Shegaon.
 Department of Electronics & Telecommunication Engineering
 Session: 2026-2027



Hands-On Practice Snap

STTP Attendance:-

		Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's Mauli Group of Institution's, College of Engineering & Technology, Shegaon. Department of Electronics & Telecommunication Engineering Session: 2026-2027						
		ISTE Approved One Week Short Term Training Program on "Advanced Industrial Automation and Process Control Using PLC & SCADA"		Venue: ENTCT Research Lab and Room No. 119				
		Speaker: Mr. Mohan Patel & Mr. Hassan Sazil		Time: 09:00 AM to 6:00 PM				
		Date: 26/07/2026 to 01/08/2026						
S. No	Name of Participant	Contact Number	Signature					
			27-07-2026	28-07-2026	29-07-2026	30-07-2026	31-07-2026	01-08-2026
1	Dr. S. S. Mhaske	9428245017						
2	Dr. G. S. Gawande	9421494317						
3	Prof. Kranti S. Bhoyar	8888822901						
4	Prof. Ashwini R. Patil	8698441227						
5	Prof. Pradip R. Bhakare	9075746813						
6	Prof. Sneha A. Manekar	9860408713						
7	Prof. Rachana M. Patil	9420795380						
8	Prof. Nanda Y. Mhasisagar	7875468950						
9	Prof. Abhishek P. Narkhede	9860404893						
10	Prof. P. S. Sonone	9921957665						
11	Bhaskute Aayushi Vishnu	9552584567						
12	Sawadekar Ratnakar Vinay	9325539849						
13	Chavan Roshan Ramesh	9408601020						
14	Kadu Shahu Madan	9325148990						
15	Dance Shamal Shashikant	9406692030						



Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's,
College of Engineering & Technology, Shegaon.
Department of Electronics & Telecommunication Engineering
Session: 2026-2027



16	Narkhede Shreya Milind		AB	AB	AB	AB	AB	AB
17	Raut Sudhanshu Satish		AB	AB	AB	AB	AB	AB
18	Bhumbare Tejas Haridas	8851878254	AB	AB	AB	AB	AB	AB
19	Chavhan Viraj Premnath	7822025703	AB	AB	AB	AB	AB	AB
20	Gangane Vivek Ravindra		AB	AB	AB	AB	AB	AB
21	Sahare Achal Vinod	9370512128	AB	AB	AB	AB	AB	AB
22	Nirmal Aniket Ashok		AB	AB	AB	AB	AB	AB
23	Kathole Akanksha Madhav	9921812020	AB	AB	AB	AB	AB	AB
24	Sukalkar Arpita Manoj	8767858881	AB	AB	AB	AB	AB	AB
25	Wasatkar Ashwini Vilas	9061693385	AB	AB	AB	AB	AB	AB
26	Ingle Dewanshri Sanjay	9972395501	AB	AB	AB	AB	AB	AB
27	Deshmukh Divya Balasaheb	9730719661	AB	AB	AB	AB	AB	AB
28	Bangar Gaurav Gajanan	8767208864	AB	AB	AB	AB	AB	AB
29	Arbat Gayatri Ganesh	9373800188	AB	AB	AB	AB	AB	AB
30	Tivhare Gayatri Santosh	7020121783	AB	AB	AB	AB	AB	AB
31	Mhaisane Jagruti Gopal	7972211298	AB	AB	AB	AB	AB	AB
32	Misal Karan Raju	7774818561	AB	AB	AB	AB	AB	AB
33	Pachapor Ankita Subhash	7798915286	AB	AB	AB	AB	AB	AB
34	Bhise Keshav Sanjay	7083896029	AB	AB	AB	AB	AB	AB
35	Khan Faizan Ahmad Ashfaq Hussain	9511621894	AB	AB	AB	AB	AB	AB
36	Bhende Komal Manohar	9574537484	AB	AB	AB	AB	AB	AB
37	Narkhede Mansi Sandip	9975299416	AB	AB	AB	AB	AB	AB
38	Manwar Neha Devanand	7972019272	AB	AB	AB	AB	AB	AB
39	Ghanokar Om Gajanan	9709235114	AB	AB	AB	AB	AB	AB

40	Patil Om Vinod	932507763	AB	AB	AB	AB	AB	AB
41	Sable Parth Sahebrao	8669247489	AB	AB	AB	AB	AB	AB
42	Bonde Parth Sandip		AB	AB	AB	AB	AB	AB
43	Raundale Pragati Sudhir	9096332519	AB	AB	AB	AB	AB	AB
44	Mate Gauri Shrikrushna	9840303201	AB	AB	AB	AB	AB	AB
45	Isokar Prasanna Raju	7058408961	AB	AB	AB	AB	AB	AB
46	Shegokar Pratik Ganesh	8080385060	AB	AB	AB	AB	AB	AB
47	Chaudhari Purushottam Bhagwat	8767760283	AB	AB	AB	AB	AB	AB
48	Bedekar Rashmi Nandu	9730335600	AB	AB	AB	AB	AB	AB
49	Dhoran Rohit Sunil	8888711204	AB	AB	AB	AB	AB	AB
50	Ingle Roshan Ravindra		AB	AB	AB	AB	AB	AB
51	Zope Sakshi Anil	9834503116	AB	AB	AB	AB	AB	AB
52	Rahane Sakshi Purushottam	7030796970	AB	AB	AB	AB	AB	AB
53	Khirodkar Sakshi Ramdas		AB	AB	AB	AB	AB	AB
54	Sultan Sakshi Santosh	9873232560	AB	AB	AB	AB	AB	AB
55	Mahakar Gayatri Shivaji	9689851150	AB	AB	AB	AB	AB	AB
56	Kusalkar Sanjana Laxman	932225531	AB	AB	AB	AB	AB	AB
57	Bhande Sanket Arun	9970099288	AB	AB	AB	AB	AB	AB
58	Dhore Shantanu Nitin	8308989026	AB	AB	AB	AB	AB	AB
59	Dali Shantanu Punjaji	9850138517	AB	AB	AB	AB	AB	AB
60	Khette Shreya Sanjay	8767645036	AB	AB	AB	AB	AB	AB
61	Deshmukh Sneha Anand	9881343469	AB	AB	AB	AB	AB	AB
62	Patil Snehal Shivaji	8459102815	AB	AB	AB	AB	AB	AB
63	Shewatkar Swastik Sahebrao	9021787467	AB	AB	AB	AB	AB	AB



Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's,
College of Engineering & Technology, Shegaon.
Department of Electronics & Telecommunication Engineering
Session: 2026-2027



64	Awatade Tanaya Atul	93225602	Awatade	Awatade	Awatade	Awatade	Awatade	Awatade
65	Awzad Tanvi Suresh	7356504663	Tanvi	Tanvi	Tanvi	Tanvi	Tanvi	Tanvi
66	Wath Ishwari Vijay	8237643122	Wath	Wath	Wath	Wath	Wath	Wath
67	Tayade Tejaswini Gajanan	8010946300	T.G.Tayade	T.G.Tayade	T.G.Tayade	T.G.Tayade	T.G.Tayade	T.G.Tayade
68	Sabale Tejasvini Madanrao	9371814689	Sabale	Sabale	Sabale	Sabale	Sabale	Sabale
69	Kate Vaishnavi Mahadev	9075919050	Orkate	Orkate	Orkate	Orkate	Orkate	Orkate
70	Ghorade Vaishnavi Sanjay	8551897417	V.S.Ghorade	V.S.Ghorade	V.S.Ghorade	V.S.Ghorade	V.S.Ghorade	V.S.Ghorade
71	Umale Arati Mohan	7755906928	A.M.Umale	A.M.Umale	A.M.Umale	A.M.Umale	A.M.Umale	A.M.Umale
72	Khole Komal Sandipan	936838423	Khol	Khol	Khol	Khol	Khol	Khol
73	Borse Manisha Mohan	8766561600	MBorse	MBorse	MBorse	MBorse	MBorse	MBorse
74	Mapari Vaibhav Gajanan	8788933836	V.G.mapari	V.G.mapari	V.G.mapari	V.G.mapari	V.G.mapari	V.G.mapari
75	Harne Vaishnavi Mohan	9325145378	V.M.Harne	V.M.Harne	V.M.Harne	V.M.Harne	V.M.Harne	V.M.Harne
76	Patil Rajnandini Vikas	8766990071	Patil	Patil	Patil	Patil	Patil	Patil
77	Khode Neha Rajesh	9022466849	NKhode	NKhode	NKhode	NKhode	NKhode	NKhode
78	Lande Pallavi Santosh	9620142064	PLande	PLande	PLande	PLande	PLande	PLande
79	Sawdekar Pranav Ravindra	9359678692	P.Sawdekar	P.Sawdekar	P.Sawdekar	P.Sawdekar	P.Sawdekar	P.Sawdekar

Prof. A. R. Patil
 Workshop Co-Coordinator

Prof. A. P. Narkhede
 ISTE Dept. Coordinator

Dr. S. S. Mhaske
 HoD ENTC Dept.
 Head of Department
 Electronics & Telecommunication Engineering
 Mauli Group of Institution's
 College of Engineering & Technology
 Shegaon Dist. Buldhana

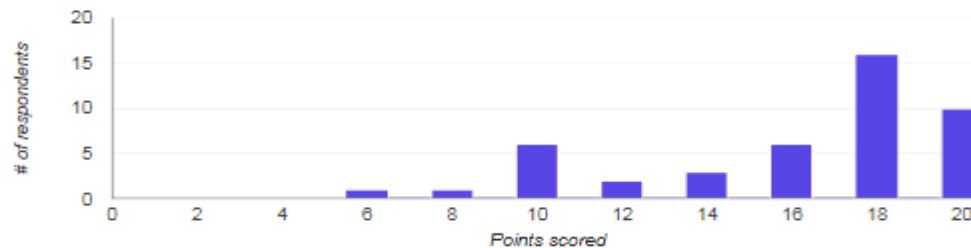
Dr. S. R. Paraskar
 Principal



Quiz of Participant at the end of STTP:-

Average 16.09 / 20 points	Median 18 / 20 points	Range 6 - 20 points
------------------------------	--------------------------	------------------------

Total points distribution

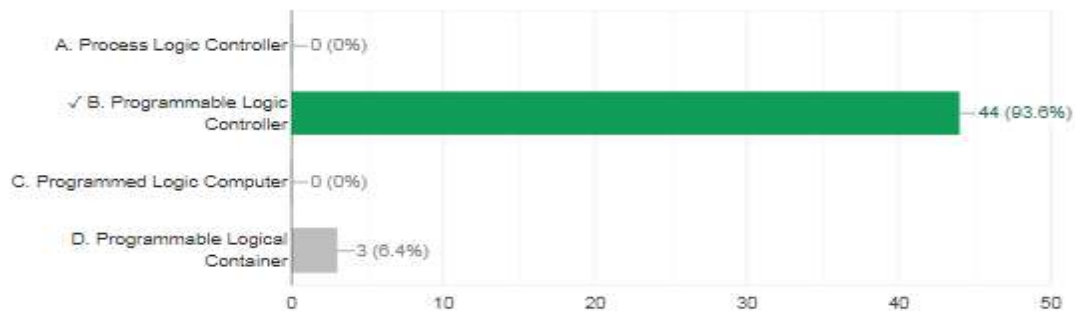


MCQ TEST

Q 1. What does PLC stand for?

[Copy chart](#)

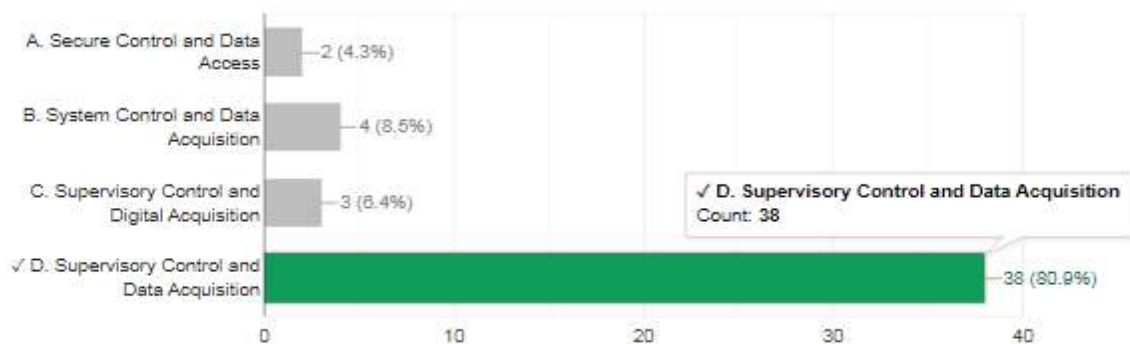
44 / 47 correct responses



Q 2. What does the abbreviation SCADA stand for in relation to PLC systems?

[Copy chart](#)

38 / 47 correct responses

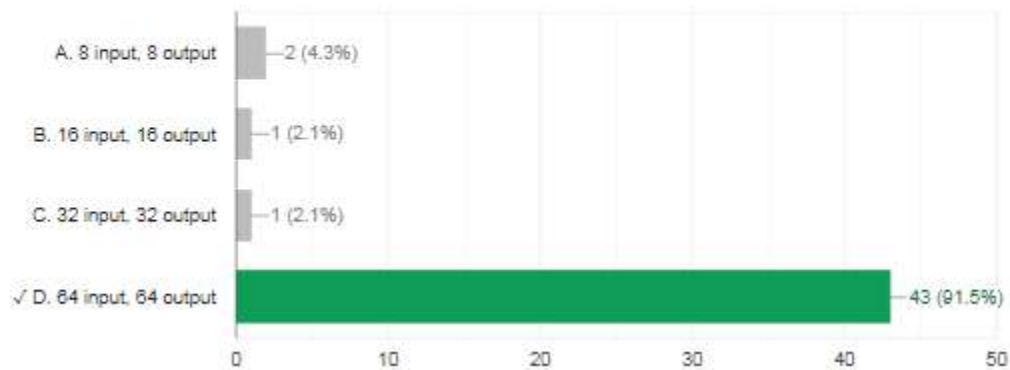




Q 3. How many maximum input and output points does a high-end PLC have?

[Copy chart](#)

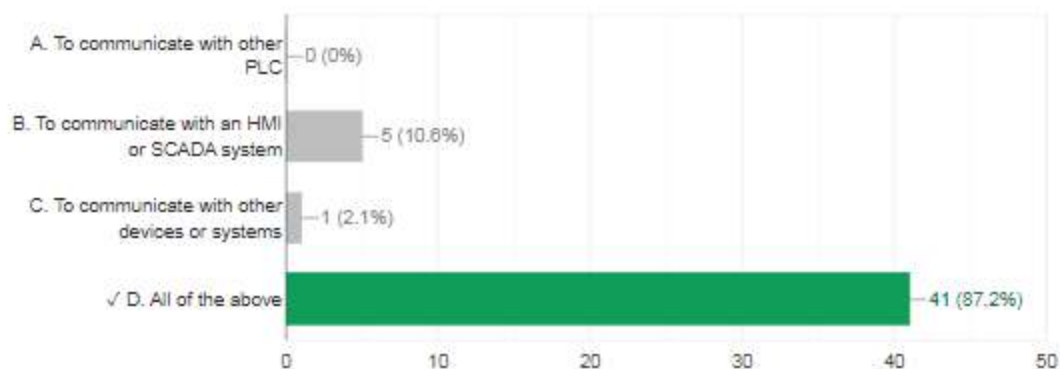
43 / 47 correct responses



Q 4. What is the function of a PLC's communication interface?

[Copy chart](#)

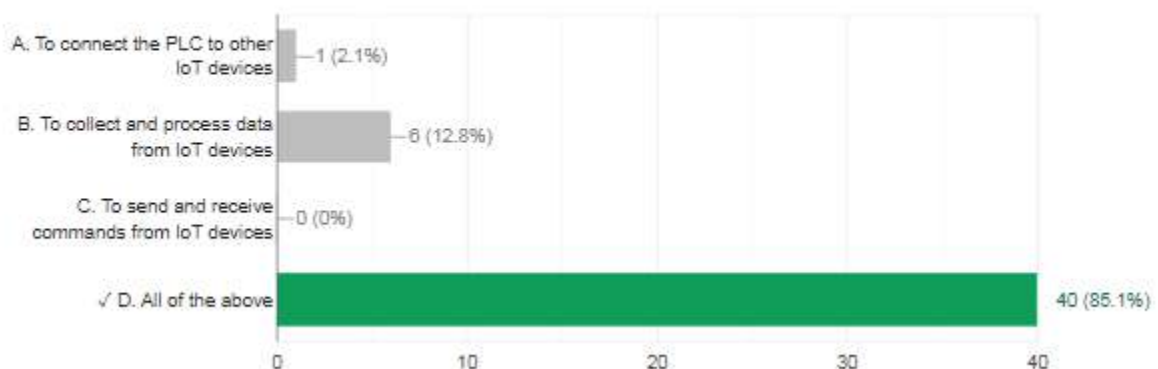
41 / 47 correct responses



Q 5. What is the function of a PLC's IoT (Internet of Things) capability?

[Copy chart](#)

40 / 47 correct responses





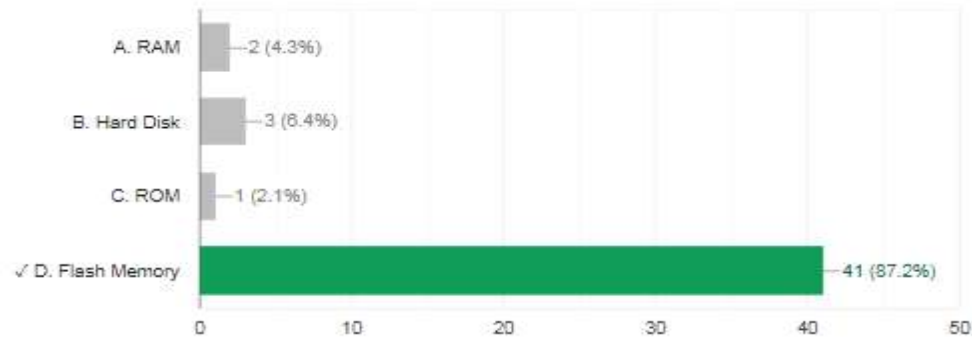
Q 6. What kind of memory is typically used to store a PLC's program in latest models?



Copy

chart

41 / 47 correct responses



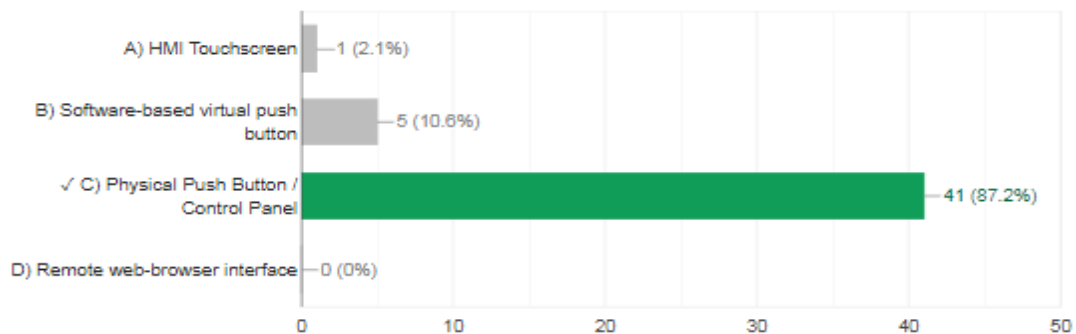
Q 7. Which of the following interface options provides the highest resilience against network loss and allows rapid, blind tactile operation in a high-vibration environment?



Copy

chart

41 / 47 correct responses



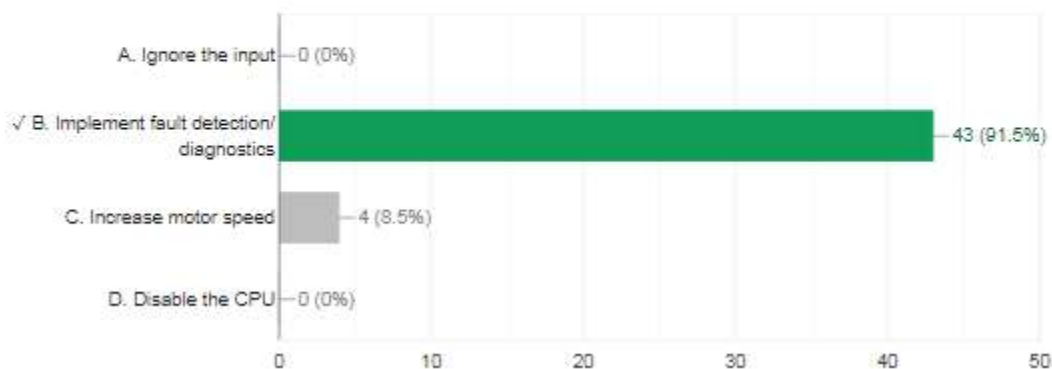
Q 8. If a PLC input sensor fails and continuously sends an ON signal, which approach is most appropriate?



Copy

chart

43 / 47 correct responses

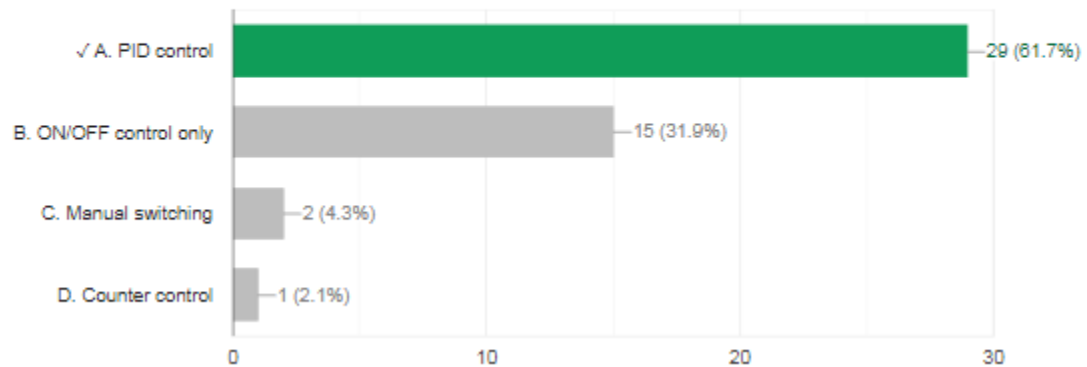




Q 9. Which control strategy is most appropriate when a process variable must continuously track a desired set point?

[Copy](#)
[chart](#)

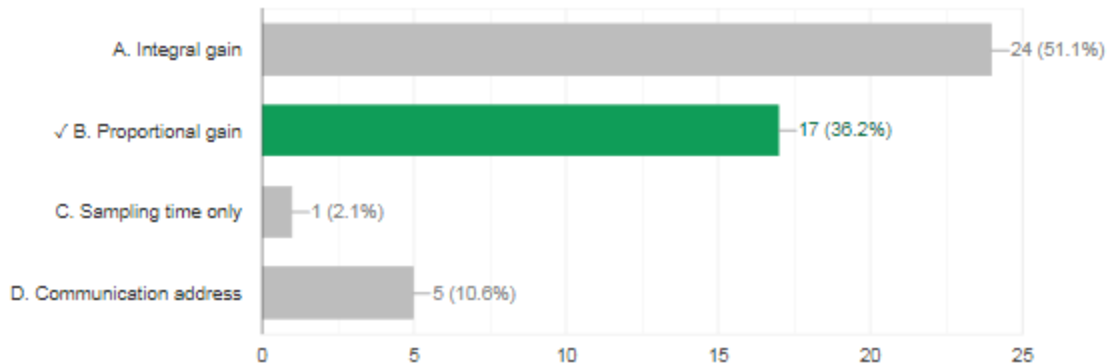
29 / 47 correct responses



Q 10. A temperature process continuously exceeds its set point. Which controller parameter is most likely to require adjustment?

[Copy](#)
[chart](#)

17 / 47 correct responses



Feedback and Suggestions:-

Participants' Feedback

Participants expressed **high satisfaction with the quality of the sessions, resource persons, and the depth and relevance of the content covered** during the STTP. They particularly appreciated the **hands-on practical sessions**, which provided opportunities to apply theoretical concepts in PLC programming, SCADA/HMI configuration, industrial communication, and process control.



The feedback indicated that the training program was a **valuable and enriching learning experience**, enhancing participants' practical knowledge and technical skills in industrial automation. Participants also expressed that the knowledge and skills gained through the program would be beneficial for their **teaching, research, laboratory development, and industrial applications**.

Suggestions for Future Programs:-

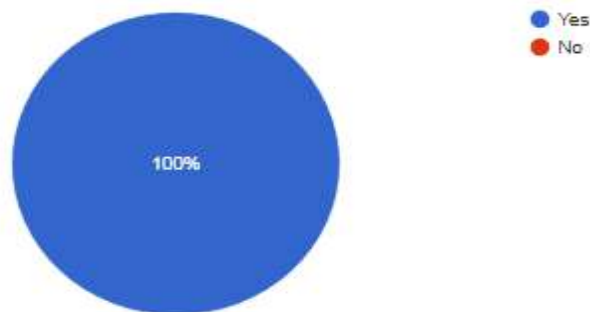
Suggestions received from the participants included:

- Providing **more time for practical and hands-on sessions** involving PLC, HMI, and SCADA systems.
- Including more **real-time industrial case studies and troubleshooting exercises**.

1. Was the training easy to understand and follow?

38 responses

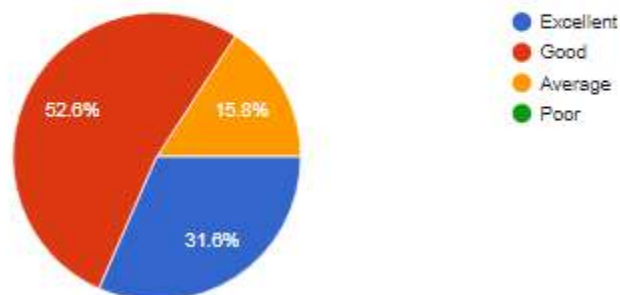
Copy chart



2. How would you rate the overall content of the STTP?

38 responses

Copy chart

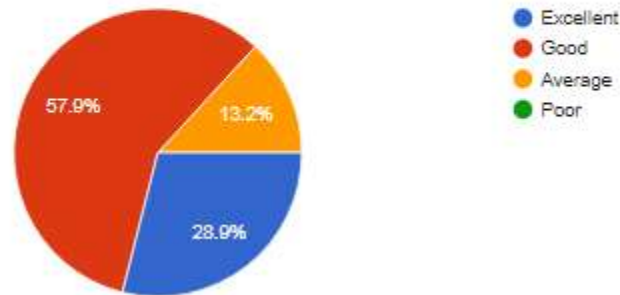




3. How relevant was the content to your professional development?

Copy chart

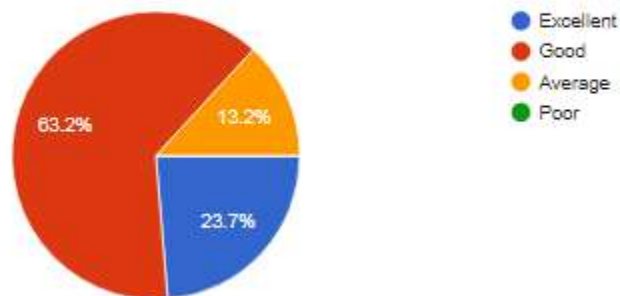
38 responses



4. How engaging and clear were the instructors in their explanation?

Copy chart

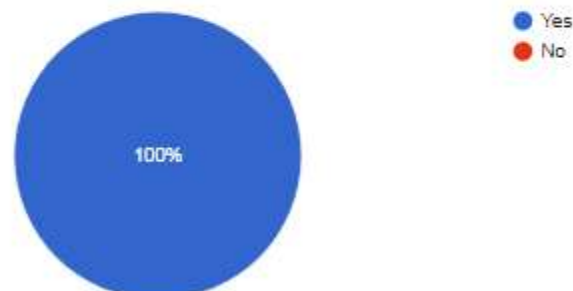
38 responses



5. Did the hands-on activities help you understand the concepts better?

Copy chart

38 responses





6. Were the hands-on activities relevant and challenging?

Copy chart

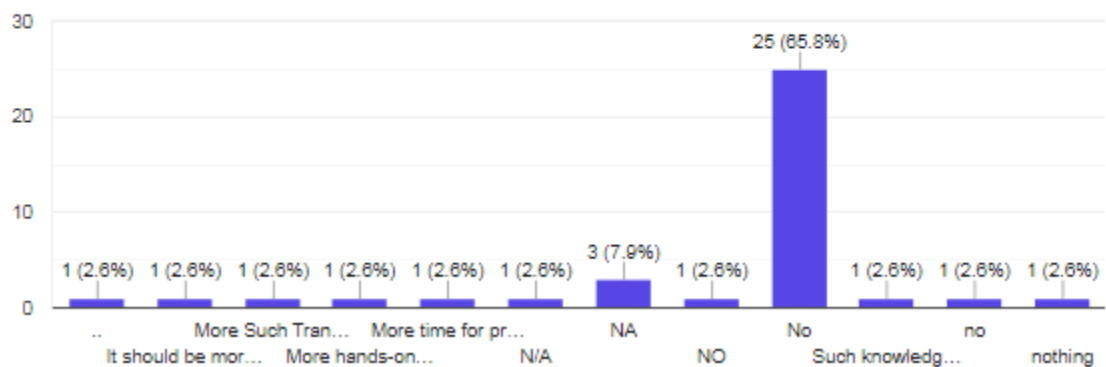
38 responses



7. Do You Have any suggestion for improving the training?

Copy chart

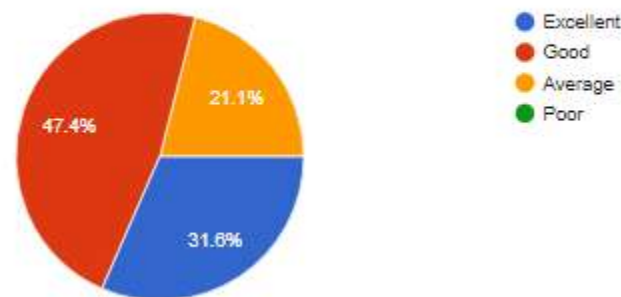
38 responses



8. Overall, how satisfied are you with the STTP?

Copy chart

38 responses





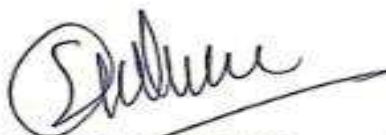
9. Do you have any suggestions for improving the training?

- This is already excellent
- Please Give more hours for Technical Training
- The training was good overall, but a bit more focus on hands-on practice and real-world examples Would make it even better.
- This training was very Excellent for students and easy to understand.

Program Outcomes:-

- Explain PLC and SCADA architecture and applications.
- Develop and troubleshoot PLC-based automation programs.
- Design and operate HMI/SCADA systems for real-time monitoring and control.
- Integrate PLC, HMI, SCADA, and industrial communication networks.
- Implement industrial control circuits, motor control, protection, and panel wiring.
- Apply automation concepts to design and troubleshoot modern industrial processes.


Prof. A. P. Narkhede
ISTE Dept. Coordinator


Dr. S. S. Mhaske
HoD ENTC Dept.


Dr. S. R. Paraskar
Principal
PRINCIPAL
Mauli Group of Institutions
College of Engineering &
Technology, Shegaon



Indian Society for Technical Education

Shaheed Jeet Singh Marg, Near Katwaria Sarai, New Delhi – 110016

Name and Address of Host Institution

Name: M. G. OF INSTITUTION'S COLLEGE OF ENGG. & TECH

Email: rahul4ingle@gmail.com

Phone: 9730752607

Website: -

Address: KHAMGAON ROADSHEGAON-

City: DIST. BULDHANA

State: MAHARASHTRA

Pincode: 444203

Incharge Details

First Name: Dr. S. R

Last Name: Paraskar

Email: principal@maulicoet.org

Phone: 9422920644

Designation: Professor

Program Details (ADVANCED INDUSTRIAL AUTOMATION AND PROCESS MONITORING USING PLC AND SCADA)

Program intended for: Teachers

Specialization Area: Electronics

Course Type: Special course on Emerging areas

Proposal Category: Industry-based programmes with substantial involvement of industry and its experts

Program Duration: One week

Proposed Program Start Date: 2026-07-27

Proposed Program End Date: 2026-08-01

Having enough expertise within your institute and neighboring places: Yes

Course Coordinator Details

Field	Coordinator 1	Coordinator 2
Name	Abhishek Narkhede	A R Patil
Email	abhi.narkhede@gmail.com	ashwinirpatil1995@gmail.com
Phone	9860404893	8698441227
Telephone	09860404893	08698441227
Address	KHAMGAON ROADSHEGAON-	KHAMGAON ROADSHEGAON-
Designation	Assistant Professor	Assistant Professor
Highest Qualification	M Tech	M E
Area of Specialization	Communication Engineering	Digital Electronics
Teaching Experience	13	8
Industry Experience	-	-
Papers Published	13	6
Short-Term Course Attended	4	4
Short-Term Course Conducted	1	2

Course Details

Significance and Objectives: To develop practical skills in PLC programming troubleshooting and industrial automation system implementation, To impart knowledge of industrial communication networking and integration among PLC HMI SCADA systems

Course Content/Coverage

Topic	Duration	Subject Expert
PLC Logic Controlle	5	Mohan Patel
SCADA	6	Mohan Patel
HM Interface	8	Mohan Patel
Variable Freq Drive	6	Mohan Patel
Industrial Cont	10	Mohan Patel

Course Schedule

Total Days	Lectures	Practicals	Visits	Others	Total Hours
6	5	25	4	1	35

Details of Equipment or Laboratory Facilities: Computer and PLC

Collaboration with Regulating Authority / Department

Expert Name	Organisation	Nature of Collaboration	Area of Expertise
Mohan Patel	Gryphon	Training	Industrial Automation

Details of Course Faculty

Name	Designation	Institute	Highest Qualification	Specialization
Hassan Sazil	Trinee Engineer	Gryphon	M E	Ind Automation

Audio Visuals and Mode of Course

Audio Visuals: LCD Projector, Smart Classroom

Mode of Course: Offline

Institute Membership and Chapter Details

IM Certificate Number: 2194

Chapter Certificate Number: MAH 204

Does your institution have an ISTE Faculty Chapter: Yes

Certified By Coordinator

Name: Abhishek Narkhede

Place: SHEGAON

Date: 18 Jul 2026

Certified By Principal

Name: Dr S R Paraskar

Place: SHEGAON

Date: 18 Jul 2026