



KALYANI CHARITABLE TRUST'S  
**LATE G. N. SAPKAL COLLEGE OF ENGINEERING**

Kalyani Hills, Anjaneri-Vadholi, Trimbakeshwar Road, Dist: Nashik - 422 212 (India)  
Tel.: +91 - 2594 - 220168 71, Fax : +91 - 2594 - 220174  
Website: www.sapkalknowledgehub.org, E-mail: gns\_engineering@sapkalknowledgehub.com



Ref:KCT's/LGNSCOE/2018-19/

**NOTICE**

**DATE: - 01/10/2018**

All the Students & Staff of Late G. N. Sapkal College of Engineering are hereby informed that Electrical Engineering Students Association (EESA) of Electrical Engineering department in association with IQAC organizing 5 Days workshop on " PLC and SCADA Programming and It's Application" from 04/10/2018 to 08/10/2018

For any queries please contact.

**Staff Coordinator:**  
Prof N.J. Helonde-9730126633

**Venue:** PLC Lab- Electrical Department

**Prof. N.J.Helonde**  
**Program Coordinator**

**Prof. Baji R.N**  
**HOD**

**Prof.(Dr) S. B. Bagal**  
**Principal**

**Prof.(Dr.) Sahebrao B. Bagal**  
**Principal**  
Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213





KALYANI CHARITABLE TRUST'S  
**LATE G.N. SAPKAL COLLEGE OF  
ENGINEERING**



Kalyani Hills, Anjaneri-Vadholi, Trimbakeshwar Toad, Dist: Nashik-422212(India)

Tel.:+91-2594-220168/71. Fax : +91-2594-220174

Website:www.sapkalknowledgehub.org, Email: [gns\\_engineering@sapkalknowledgehub.com](mailto:gns_engineering@sapkalknowledgehub.com)

## Electrical Engineering Department

### Program Module and Outcome

### PLC and SCADA Programming and It's Applications

Sr No.	Module	Syllabus
1	Module 1	Develop block diagram of PLC and its practical implementation
2	Module 2	Classify input and output interfacing device with PLC
3	Module 3	Develop architecture of SCADA and explain the importance of SCADA in critical infrastructure

Sr No.	Module	Outcome
1	Module 1	Introduction of PLC and SCADA Integrating working and practical implementation of PLC and SCADA
2	Module 2	Integrating programming of PLC and its deployment
3	Module 3	Integrating various application of PLC and SCADA in industries

*N.J. Helonde*

Prof. N. J. Helonde  
Program Coordinator

*R.N. Baji*

Prof. R. N. Baji  
HoD Electrical

*S.B. Bagal*

Prof.(Dr.) S. B. Bagal  
Principal



Kalyanii Charitable Trust's

# LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with Grade 'B' by NAAC)

- Affiliated to > Savitribai Phule Pune University (ID. No. PU/NA/Engg./152/2009 Ref.No.-CA/6501 Dated- 18/11/2009)  
Approved by > A.I.C.T.E., New Delhi (F.N: 06/07/MS-Engg/2008/O-17, Dated- 11th June 2009)  
> Govt. of Maharashtra (No. GEC-2009/(67/09)/T.E.- 4, Dated- 15th June 2009)  
> D.T.E., M.S., Mumbai (No.2/NGC/Engg./Approval/2009/535, Dated - 23rd July 2009)  
> AISHE CODE : C-42196

Dr. Sahebrao B. Bagal  
M.E. (E & TC), Ph.D. (E & TC)  
Principal



Dr. Ravindra G. Sapka  
Chairman & Managing Director  
Kalyanii Charitable Trust

Date: 01/10/2018

Ref: KCT's /LGNSCOE/2018-19

To,  
Mr. Kunal Wakhare  
Senior Manager  
Yashorath Electronics Systems,  
Pune.

Subject: - Invitation letter to conduct a workshop on "PLC and SCADA Programming and It's Application".

Respected Sir,

We are pleased to invite you to conduct a workshop on "PLC and SCADA Programming and It's Application", organized by Electrical Engineering Students Association (EESA) of Electrical Engineering Department in association with IQAC of Late G. N. Sapkal College of Engineering, Anjaneri, Nashik 422212


We take this opportunity to invite you as a guest speaker. It would indeed be our privilege, if you could accept our earnest request in this regard and share your knowledge with audience of all departments of our college. Kindly provide convenient date for valuable workshop.


The tentative day, date and time for this program is 04/10/2018 to 08/10/2018

Please make it convenient to visit our campus and oblige.


With warm regards.

Yours Sincerely,

  
Prof N.J. Helonde  
Program Coordinator

  
Prof R.N. Baji  
HoD



  
Prof. Dr. Sahebrao B. Bagal  
Principal  
Prof.(Dr.) Sahebrao B. Bagal  
Principal  
Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213



- **CAMPUS** : Sapkal Knowledge Hub, Kalyanii Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)  
Tel.: + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | E-mail : gns\_engineering@sapkalknowledgehub.org
- **CORPORATE OFFICE** : Sapkal Knowledge Hub, 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009.  
Tel.: +91 - 253 - 2392450 / 51 | E-mail : head.marketing@sapkalknowledgehub.org | Website : www.sapkalknowledgehub.org
- **MUMBAI OFFICE** : Sapkal Knowledge Hub, Unit No. 22, 1<sup>st</sup> Floor, Shubhada Tower Shopping Centre, Sir Pochkhanwala Road, Near R.T.O. Office, Worli, Mumbai - 400 030. Tel.: + 91 - 22 - 24938914 / 15 | E-mail : cmd@sapkalknowledgehub.org, ravi.sapkal@gmail.com

## PROGRAM REPORT TEMPLATE

**Title of the Program:** 5 Days workshop on “ PLC and SCADA Programming and It’s Application”

**Number of Day(s):** 5

**Date of Conduction:** 04/10/2018 to 08/10/2018

**Venue:** Engineering Seminar Hall

**Number of Participants:**

**Male:** 50

**Female:** 17

**Program Objectives:**

1. To understand the generic architecture and constituent components of a Programmable Logic Controller.
2. To understand architecture of SCADA.
3. To understand PLC interfacing and basics of HMI.

**Name & Contact Details of the Resource Person(s):**

1. Mr. Kunal Wakhare

**Mobile:** 7558289803

**Description / Explanation of the Program:**

This Five-day seminar was organised by EESA (Electrical Engineering student association) from 04/10/2018 to 08/10/2018. The workshop was started with felicitation of guest Mr. Kunal Wakhare by HOD Electrical Prof.R.N.Baji. Prof.R.N.Baji sir addressed students regarding need of Automation. He delivered information how institute has undertaken various programs which will help student boosting their skill. Mr. Kunal Wakhare shared their large working experience with students and explained students how theory and practical knowledge is helpful for engineers. SCADA now has an ever-present role that includes looking after all automatic control and alarm management, logging of critical process data, and providing operators with remote access to equipment. However, unlike many other fields of engineering, SCADA is a comparatively newer field with many of its current features only becoming available in the last 10 to 15 years. With SCADA only recently maturing as a technology, most water utilities tend to have a wide range of installed SCADA equipment/networks that can vary considerably in terms of age, feature-set, connectivity, and vendor support. In addition, most systems have been built piecemeal over the years by a wide



variety of contractors, vendors, and consultants, each with their own programming approach. Supervisory Control and Data Acquisition (SCADA) functions were primarily performed by dedicated computer-based SCADA systems. Whereas these systems still do exist and are widely used in industry, the SCADA functions can increasingly be performed by TCP/IP/Ethernet-based systems. The advantage of the latter approach is that the system is open; hence hardware and software components from various vendors can be seamlessly and easily integrated to perform control and data acquisition functions. However, stand-alone SCADA systems are still being marketed. Thus as PLCs and SCADA systems continue to be lucrative automation devices, several companies like Allen Bradley, Delta, Siemens, and Schneider have their own set of PLC, SCADA, HMI products and their own proprietary software programming language.

### **Session wise Detail:**

**Day 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. 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 .

**Day 2:** 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

**Day 3:** 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 .

**Day 4:** The this 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.

**Day 5:** Now it's the time for expressing gratitude:- A small program was there to express our gratitude to all by simple words. Students express their gratitude and experience of 5 days workshop through words . Our beloved HOD Prof. R. N. Baji 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 on behalf of our college.



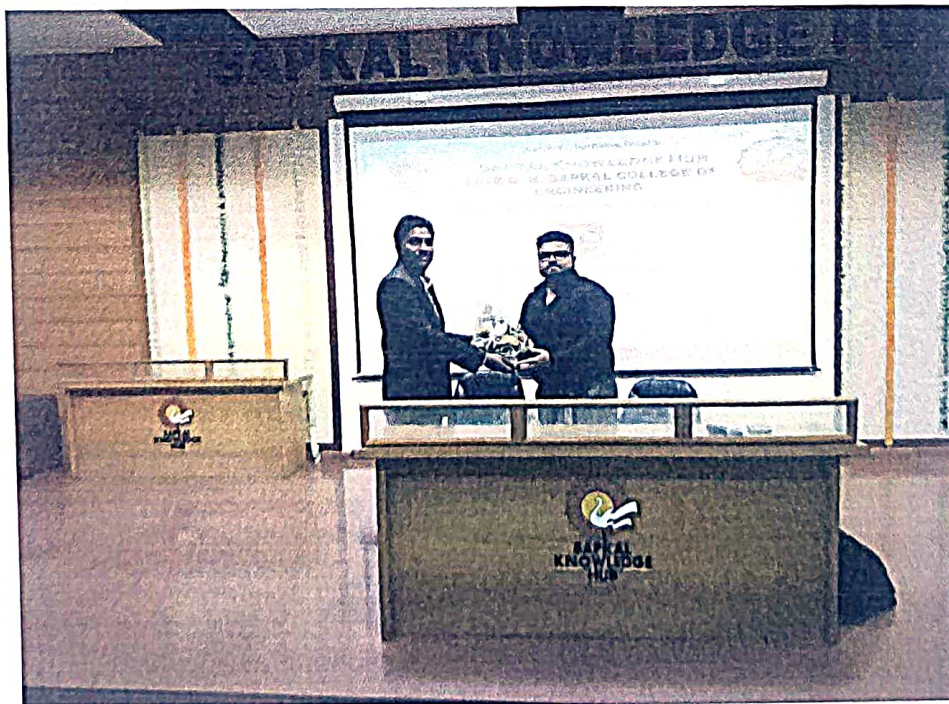
### Outcome of the Event:

1. Develop block diagram of PLC and explain the working
2. Classify input and output interfacing devices with PLC.
3. Develop architecture of SCADA and explain the importance of SCADA in critical infrastructure.

### Photographs of the Event:



Welcoming the guest

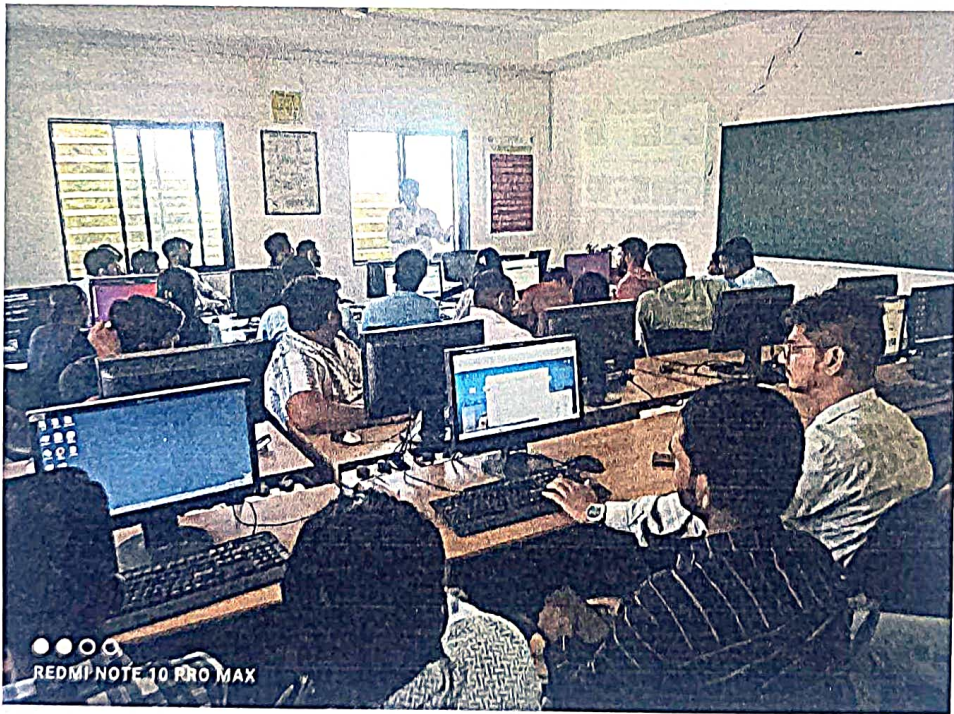


Felicitation of the guest



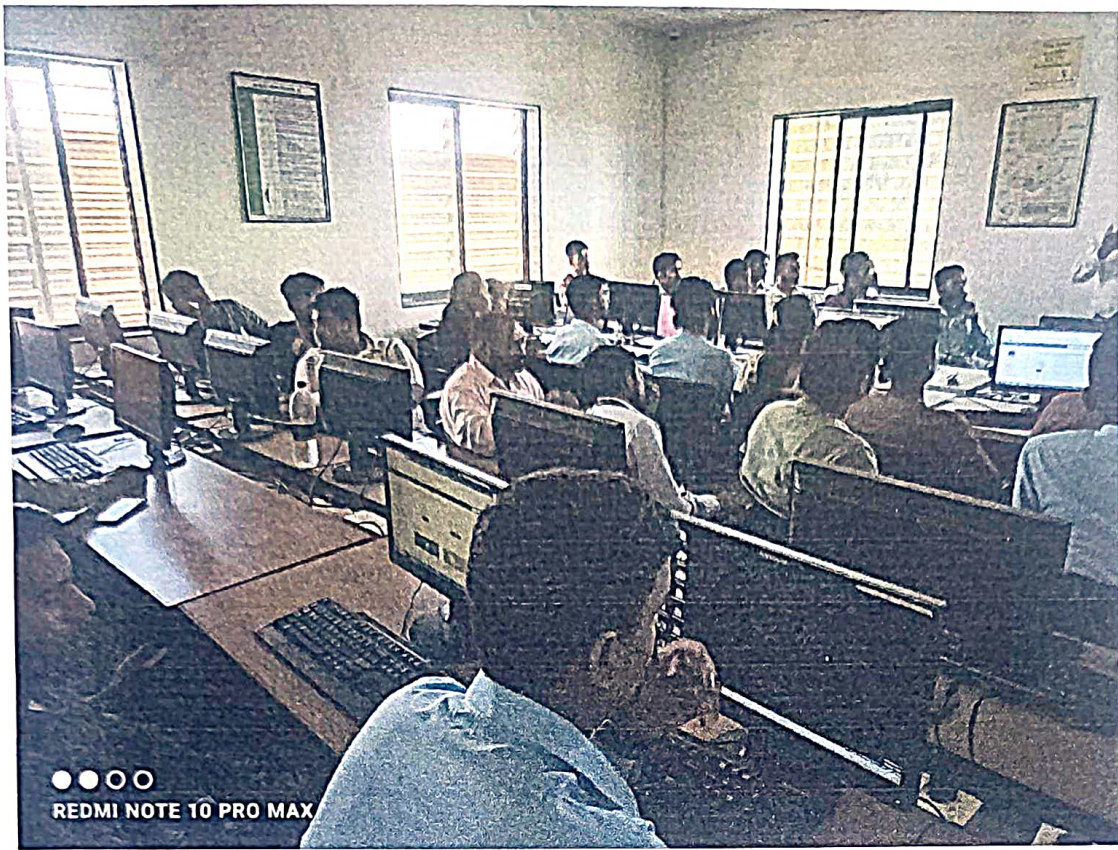


Guest Delivering Lecture



Guest Conducting Session

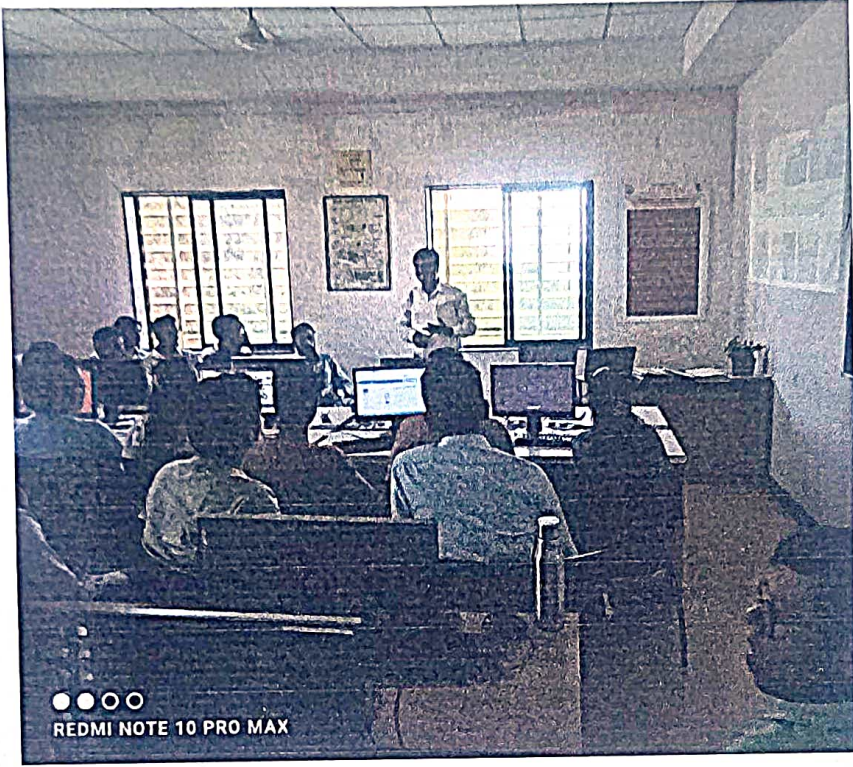




Guest Conducting Session







Guest Conducting Session

*Nhelonde*

**Prof N.J. Helonde**  
Program Coordinator

*R.N. Baji*

**Prof R.N. Baji**  
HoD

*Bagal*

**Prof. Dr. Sahebrao B. Bagal**  
Principal





Kalyanil Charitable Trust's

## LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with Grade 'B' by NAAC)

Affiliated to > Savitribai Phule Pune University (ID. No. PU/NA/Engg./152/2009 Ref.No.-CA/8501 Dated- 18/11/2009)

Approved by > A.I.C.T.E., New Delhi (F.N: 06/07/MS-Engg/2008/O-17, Dated- 11th June 2009)

> Govt. of Maharashtra (No. GEC-2009/(07/09)/T.E.- 4, Dated- 15th June 2009)

> D.T.E., M.S., Mumbai (No.2/NGC/Engg./Approval/2009/535, Dated - 23rd July 2009)

> AISHE CODE : C-42100



**Dr. Sahabroo B. Bagal**  
M.E. (E & TC), Ph.D. (E & TC)  
Principal

**Dr. Ravindra G. Sapl**  
Chairman & Managing Director  
Kalyanil Charitable Trust

Ref: Kct's/Lgnsoc/Elect/2018-19/

Date: 08/10/2018

To,  
Mr. Kunal Wakhare  
Senior Manager,  
Yashorath Electronics Systems,  
Pune.

### Subject: - Conduction & Appreciation Letter

Respected Sir,

Late G. N. Sapkal College of Engineering provides wide range of B.E. & M.E. courses. It aims of conducting high standards of education in the field of Engineering. The college conducts courses in various streams of engineering, at the undergraduate level & postgraduate level, which are conducted strictly as per the rules and regulations of AICTE. With this reference Department of Electrical Engineering & Electrical Engineering Students Association (EESA) of Late G. N. Sapkal College of Engineering in association with IQAC cell conducted workshop on "PLC and SCADA Programming and It's Application".

On behalf of our institute we take this opportunity to express our appreciation to you for workshop. It was extremely informative, and participation illustrated the importance of this topic to our students & faculty members. We would like to thank you for your presence & acceptance our invitation.

Thanking You,

With warm regards.



**Prof. (Dr.) S. B. Bagal**  
Principal


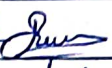

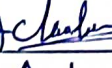
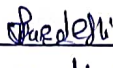
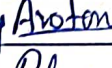
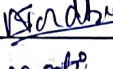
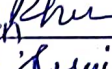
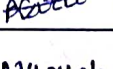
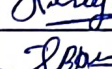
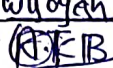
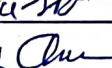
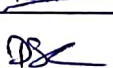
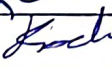
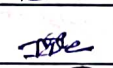
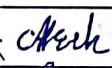

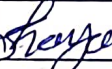

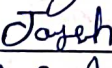

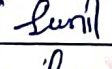
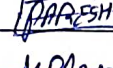
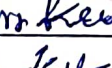
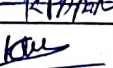
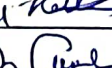
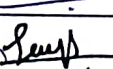

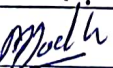
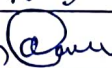
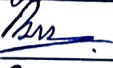
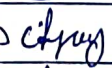
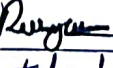
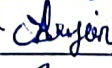
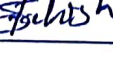
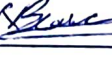




**Prof. (Dr.) Sahabroo B. Bagal**  
Principal  
Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213

- **CAMPUS** : Sapkal Knowledge Hub, Kalyanil Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)  
Tel.: + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | E-mail : gns\_engineering@sapkalknowledgehub.org
- **CORPORATE OFFICE** : Sapkal Knowledge Hub, 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009.  
Tel.: +91 - 253 - 2392450 / 51 | E-mail : head.marketing@sapkalknowledgehub.org | Website : www.sapkalknowledgehub.org
- **MUMBAI OFFICE** : Sapkal Knowledge Hub, Unit No. 22, 1<sup>st</sup> Floor, Shubhada Tower Shopping Centre, Sir Pochkhanwala Road, Near R.T.O. Office, Worli, Mumbai - 400 030. Tel.: + 91 - 22 - 24938914 / 15 | E-mail : cmd@sapkalknowledgehub.org, ravi.sapkal@gmail.com

**Electrical Engineering Department**

Date: 04/10/2018

**Attendance Record of Add-on program "PLC & SCADA programming & its Applications"**

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
1)	Bagul Rohit Ramdas		20)	Jadhav Aniket Ajit	
2)	Kadam Mohini Abhiman		21)	Abhise Abhishek Ajit	
3)	Rajgurun Anuja Armanand		22)	Arate mansi Sanjay	
4)	Sarali Sukdev Gachare		23)	Dhore Kiran Narayan	
5)	Chavan Ananti Prakash		24)	Yeole Gayatri Sanjay	
6)	Klagn Yogesh Sanjay		25)	Borse Shubham Rajendra	
7)	Borse Akshay Tukaram		26)	Chavan Anant Ekant	
8)	Dhage Swarni Ashok		27)	Kode. Rakesh Niten	
9)	Gavale Tushar Kailas		28)	Chavan Akash Ashok	
10)	ATER DEPAJI DADHA SAHEB		29)	Pawar Yash Shyam	
11)	Joshi Shubham Sanjay		30)	usiv. Jayesh Dipak	
12)	GAJARE MANOJ SHARAD		31)	Chavan Jayesh Sunil	
13)	MAHAJAN PARESH DILIP		32)	perve kavit rajendra	
14)	Kolte Prasad Anant		33)	Desle Kal Bsh Bapu	
15)	LOKHANDE ROSHAN BHAGWAN		34)	Gavale Tushar Kailash	
16)	Scandale Roshan Ramesh		35)	Baste Ashok Vaibhav	
17)	Jadhav Aditya Anil		36)	Bagal Gayatri Satish	
18)	RASAL YASH Prakash		37)	Dabe Ajay Vijayrao	
19)	PAGAR ROHIT LAHANU		38)	Gurjal Akshay Sham	
20)	Satish Jadhav		39)	Bodke Sachin Urmil	

*Wshelonde*

Program Coordinator



HOD



## Electrical Engineering Department

Date: 04/10/2018

Attendance Record: Add-on program "PLC & SCADA programming & its Applications".

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
40	Amrutkar Ritesh Sanjay	<u>Ritesh</u>	56	Gaikwad Swapnil	<u>SW</u>
41	Bhalada Aditya Sachin	<u>Ad</u>	57	Yadav Nitinand	<u>Nit</u>
42	Bhadane Prachi Sanjay	<u>Prachi</u>	58	Thakore Jagendra	<u>Jagendra</u>
43	Deshmukh Snehal D.	<u>Snehal</u>	59	Pawar Sunil Jagendra	<u>Sunil</u>
44	Godse Saurabh B.	<u>Saurabh</u>	60	Sonawane Rashmi Vijay	<u>Rashmi</u>
45	Kishor Gujrathi	<u>KGS</u>	61	Sonawane Rohit K.	<u>S.R.K.</u>
46	Jagtap Sonali	<u>JS</u>	62	Pawar Nikhil	<u>Nikhil</u>
47	Bhujari Jyoti	<u>Bhujari</u>	63	Patil Shubumkalas	<u>Kalash</u>
48	Tushar More	<u>More</u>	64	Patil Jeet Pramod	<u>Jeet</u>
49	Mulane Pooja	<u>Pooja</u>	65	Patil Dnyanesh Keshav	<u>Dnyanesh</u>
50	Borse Hitesh P.	<u>Hitesh</u>	66	Morang Rohit Arun	<u>Rohit</u>
51	Swapnil J Badguler	<u>Swapnil</u>	67	Dhargalkar Rajesh R.	<u>Rajesh</u>
52	Dange Kunal V	<u>Kunal</u>			
53	Kalewar Divya	<u>Divya</u>			
54	Narang Rohit A.	<u>Rohit</u>			
55	Pardeshi Harshad Chha.	<u>Harshad</u>			

-997

N.Helonde

Program Coordinator








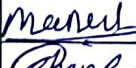



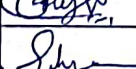

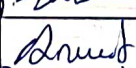

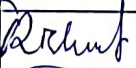





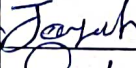

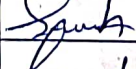



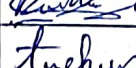

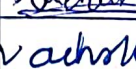



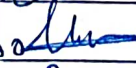







Prof.(Dr.) Sahebrao B. Bagal  
Principal  
Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213.

HOD

## Electrical Engineering Department

Date: 05/10/2018

### Attendance Record of Add-on program "PLC & SCADA programming & its Applications"

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
1)	Begur Rohit Ramdas		20)	JADHAV ANIKET AJIT	
2)	Kadam Mahini Abhimanyu		21)	Abhishek Alit	
3)	Rajguru Anuja Atmaram		22)	Anote mansi Sanjay	
4)	Gadhave Samalishkdev		23)	Dhone Kiran Narayan	
5)	Chavan Ananti Pratikash		24)	Yeste Gayatri Sanjay	
6)	Wagh Yogesh Sanjay		25)	Borse Shubham Rajendra	
7)	Borse Akshay Tukaram		26)	Chavan Anant Ekanant	
8)	Phage Swarni Ashok		27)	Kode Rishkesh Nitesh	
9)	Gavate Tushar Kailas		28)	Chavan Akasha Ashok	
10)	AHER DIPATI DADA SHANT		29)	Pawar Yash SHYAM	
11)	Joshi Shubham Sanjay		30)	Ushir Sayesh Dipak	
12)	GAJARE MANOJ SHARAD		31)	Chavan Suresh Sanjay	
13)	MAHAJAN PABESH DEEPA		32)	More Kaveri Rajendra	
14)	KOLTE Prasad Anand		33)	Deo Patel Kalpesh Bapu	
15)	Lokhande Roshan Bhagawan		34)	Gavate Tushar Kailash	
16)	Sangle Roshan Ramesh		35)	Boste Ashok Vaibhav Ashok	
17)	Jadhav Aditya Anil		36)	Bade Gayatri Satish	
18)	RASAL YASH PRAKASH		37)	Bade Ajay Vijayprakash	
19)	PAGAR Rohit LAHANU		38)	Gunjaj Akshay Sharan	
			39)	Badke Sachin Waltraud	

N. S. helonde

Program Coordinator





HOD



# LATE G.N. SAPKAL COLLEGE OF ENGINEERING

Kalyani Hills, Anjaneri-Vadhali, Trimbakeshwar Toad, Dist: Nashik-422212(India)

Tel.:+91-2594-220168/71.

Fax : +91-2594-220174

Website:www.sapkalknowledgehub.org, Email: gns\_engineering@sapkalknowledgehub.com



## Electrical Engineering Department

Date:

05/10/2018

Attendance Record: Add-on program "PLC & SCADA programming & its Applications".

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
40	Bhadane Prachi Sanjay	<u>Prachi</u>	56	pendshi hamsket chhasen	<u>h.s. pendshi</u>
41	kishor Gujarathi	<u>Kishor</u>	57	Pawar Nikhil	<u>Nikhil</u>
42	bhagyshmi Joshi	<u>Bhagyshmi</u>	58	Kadar Nibhanand	<u>Nibhanand</u>
43	Amrakesh Ritesh Sanjay	<u>Amrakesh</u>	59	paawar Sumil Jagdish	<u>paawar</u>
44	Swapnil J. Badgajar	<u>Swapnil</u>	60	Sonawane Rashmi Vijay	<u>Rashmi</u>
45	Bhalde Aditya Sudhir	<u>Aditya</u>	61	Patil Shubmkailas	<u>Kailas</u>
46	Dange Kunal V.	<u>Kunal</u>	62	patil geet pramod	<u>P.g.p.</u>
47	Deshmukh Snehal D	<u>Snehal</u>	63	Patil Dnyanad Keshav	<u>Dnyanad</u>
48	Godse Saurabh B	<u>Saurabh</u>	64	Nene's Rohit Anur	<u>Rohit</u>
49	Jagtap Sonali	<u>Sonali</u>	65	Nagmoti Prajlekta	<u>Prajlekta</u>
50	Kalewar Divya	<u>Divya</u>	66	Thalwe Jayesh	<u>Jayesh</u>
51	Tushar More	<u>Tushar</u>	67	Nangare Darshan	<u>Darshan</u>
52	Mulane Pooja	<u>Pooja</u>			
53	Narang Rohit	<u>Rohit</u>			
54	Dhengekar Rajesh R	<u>Rajesh</u>			
55	Saikwad Swapnil Manoj	<u>Swapnil</u>			

K. Helencle

Program Coordinator



Prof. (Dr.) Sahebrao B. Bagai

HOD

Prof.(Dr.) Sahebrao B. Bagai  
Principal

Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213.

**Electrical Engineering Department**

Date: 06/10/2018

**Attendance Record of Add-on program "PLC & SCADA programming & its Applications"**

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
1)	Bagul Rohit Ramdas	<u>RB</u>	20	Bodke Sachin	<u>Sachin</u>
2)	Kadam Mohini Abhiman	<u>Mabhinav</u>	21	chavan Ajay	<u>Ajay</u>
3)	Rajguru Anuja ATmanand	<u>Aradolkhi</u>	22	Pabe Ajay	<u>AjayPabe</u>
4)	Sonali Sukdev Godhad	<u>Sonali</u>	23	Adnan Ankita	<u>AA</u>
5)	Chavan Arti Prakash	<u>Arti</u>	24	Borse Akshay	<u>BA</u>
6)	Wagh Yogesh Sanjay	<u>WYogesh</u>	25	Chavhan Jayesh Anil	<u>Jayesh</u>
7)	Borse Akshay Tukaram	<u>ATB</u>	26	Desle Rakesh	<u>Rakesh</u>
8)	Dhage swapnil Ashok	<u>DS</u>	27	Boste Ashok Mahesh	<u>Ashok</u>
9)	Gavale Tushar Kailas	<u>Tushar</u>	28	Bodke Shashine	<u>Shashine</u>
10)	AHER DEPAJI DADA SAHEB	<u>DSL</u>	29	Gavale Jayesh Sahir	<u>Jayesh</u>
			30	Wagh Jaygajesh Depal	<u>Jaygajesh</u>
11)	Joshi Shubham Sanjay	<u>Shubham</u>	31	Amrutan Ritesh Sanjay	<u>Ritesh</u>
12)	CEJARE MANOJ SHARAD	<u>MR</u>	32	Blade Aditya Sidhir	<u>Blade</u>
13)	MAHAJAN PARESH DELIP	<u>PARESH</u>	33)	Borse Hitesh P.	<u>Borse</u>
14)	Kolke Prasad Anant	<u>Kolke</u>	34)	Dange Kanak V	<u>Kanaka</u>
15)	LokHANDE ROSHAN BHAGAWAN	<u>Lokhande</u>	35	Godse Saurabh B	<u>Godse</u>
16)	Scangle Roshan Ramesh	<u>Scangle</u>	36	Jagtup Sonali	<u>JS</u>
17)	Sadhu Aditya Anil	<u>Aditya</u>	37	bhagoshi joshi	<u>Bhagoshi</u>
18)	RASAL YASHU Prakash	<u>Yashu</u>	38	Tushar More	<u>More</u>
19)	PAGAR ROHIT LAHANU	<u>Rohit</u>	39)	Bhadane Prachi Sanjay	<u>Bhadane</u>

N. J. Holande

Program Coordinator



[Signature]  
HOD

## Electrical Engineering Department

Date:

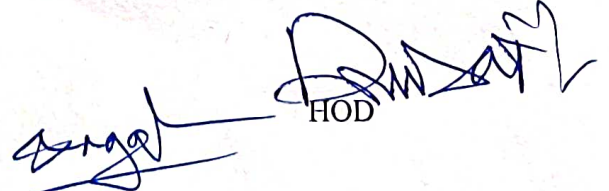
06/10/2018

Attendance Record: Add-on program "PLC & SCADA programming & its Applications".

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
40	Swapnil J. Badgajar	Badgajar	56	chaskar Akshay	chaskar
41	Dehmulh Snehal D.	D.	57	Jayphave Kiran	Kiran
42	kishor Gujarathi	Kishor	58	pardeshi hamshal chhagan	h.c.pardeshi
43	Kalewar Divya	K.D.W.	59	sonavane Rashmi vijay	Rashmi
44	Mulane Pooja M.	Pooja	60	Patil Shumbhrikal	Kailas
45	Narang Rohit	Rohit	61	Patil Dnganad keshav	Pur.
46	Yadav Nitin	YK	62	Nangare Daxan	Daxan
47	Thakre Jayesh	Jayesh	63	Naymoti Pratik	Pratik
48	Pawar Nikhil	Nikhil	64	Dhenshete Rajesh R.	Rajesh
49	sonavane Rohit. k.	S.R.K.	65	Naypore manas	Manas
50	Patil geet pramod	P.G.P.	66	Devn Prashant	Prashant
51	Narang Rohit Arun	Rohit	67	chundurwar shri	Shri
52	Gaikwad Swapnil marun	marun			
53	Mulane Pooja	Pooja			
54	More Tusheer A	Tusheer			
55	Gandigude Bhayati	Gandigude			

N.H. Gondke

Program Coordinator

HOD

Prof. (Dr.) Sahebrao B. Bagal  
Principal


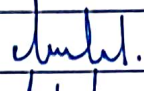
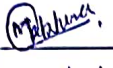
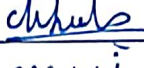
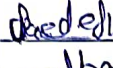
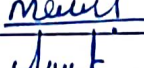

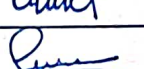
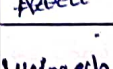

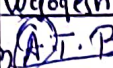
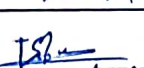

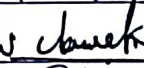
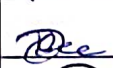
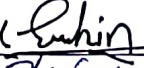
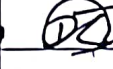
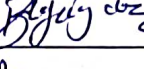
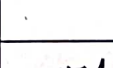



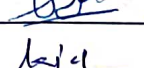

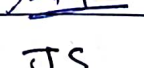
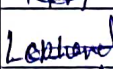
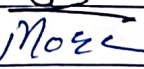
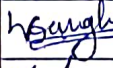
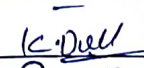
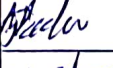

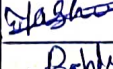
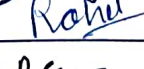
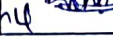





Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213.



Electrical Engineering Department

Date: 07/10/2018

Attendance Record of Add-on program "PLC & SCADA programming & its Applications"

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
1)	Bagul Rohit Ramdas		20)	Jadhav Aniket Ajit	
2)	Kadam Mohini Abhiman		21)	Arote Mani Saiyaji	
3)	Rajguru Anuja Atmanand		22)	Zeole Gayatri Saiyaji	
4)	Gadhare Sonali Sakhar		23)	Chavan Anand Eknath	
5)	Chavan Anant Prakash		24)	Patwar Jash Shyam	
6)	Wagh Yogesh Sanjay		25)	Chavan Suresh Sunil	
7)	BOSE Akshay Tukaram		26)	Baviskar Selenhi Saiyaji	
8)	Dhage Swapnil Ashok		27)	Borli Ashok Vaibhav	
9)	Gavale Tushar Kailas		28)	Bodke Sachin Walim	
10)	AHER DIPALI DADU SAHEB		29)	Swapnil J. Badgajkar	
			30)	Bhadane Prachi Sanjay	
11)	Joshi Shubham Sanjay		31)	Dange Kunal V.	
12)	GADGARE MANOJ SHARAD		32)	Deshmukh Sheetal D.	
13)	MAHAJAN PARESH DEEPA		33)	Kishor Gujarathi	
14)	Kolhe Prasad Anand		34)	Jagtap Sonali	
15)	LOKHANDE ROSHAN BAJAGAWN		35)	Tushar More	
16)	Sangle Roshan Ramesh		36)	Kalewar Divya	
17)	Jadhav Aditya Anil		37)	Mulane Pooja	
18)	RASAL JASH PRAKASH		38)	Narang Rohit	
19)	PAGAR ROHIT LAHARI		39)	Bhale Aditya Sudhir	

N. Shelonde  
Program Coordinator



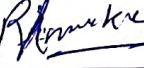



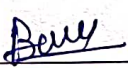



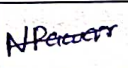
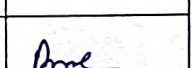

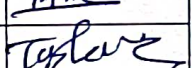
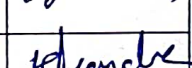
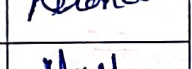

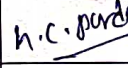


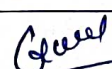
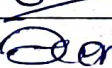
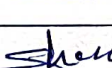


  
HOD

## Electrical Engineering Department

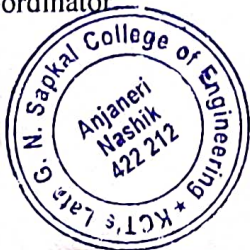
Date: 07/10/2018

Attendance Record: Add-on program "PLC & SCADA programming & its Applications".

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
40)	Borse Hitesh P.		56)	Thakre Jayeshree	
41)	Amurkar Ritesh Sanjay		57)	Sonawane Rashmi Vijay	
42)	Godse Saurabh B		58)	Patil Shubham Kailas	
43)	Dhagshmi Joshi		59)	Narung Poojary	
44)	Dhendale Rajesh R		60)	Naymoti Poojita	
45)	Pawar Nikhil		61)	Mulane Pooja	
46)	Yadav Nitinmond		62)	More Tushar R	
47)	Patil Geet Pramad	P.G.P.	63)	Kande Sarvesh S	
48)	Sonawane Rohit K.	S.R.K.	64)	Nagpure Manas	
49)	Pawdehi Harshad Chhasan	H.C. Pawdehi	65)	Ganikwad Swapna Maruti	
50)	Patil Dnyanada Keshav				
51)	Nangare Darshan				
52)	Gandhigrao Dnyuji				
53)	Denni Prashant				
54)	Chunalewar Shri				
55)	Chaskar Akshay				



Program Coordinator





HOD

Prof.(Dr.) Sahebrao B. Bagal  
Principal

Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213.

## Electrical Engineering Department

Date: 08/10/2018

### Attendance Record of Add-on program "PLC & SCADA programming & its Applications"

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
1)	Bagul Rohit Ramdas.		20)	Bodke Sachin	
2)	Kadam Mahini Abhiman		21)	Chavan Ajay	
3)	Rajguru Anuja Atmanand		22)	Dabe Ajay	
4)	Chadhare Suresh Suresh		24)	Borse Akshay	
5)	Chavan Anant Prakash		25)	Kode, Ritesh	
6)	Inaah Yashraj Sanjay		26)	Chavan Akash Ashok	
7)	Borse Akshay Tukaram		27)	Paiwar, Yash Shyam	
8)	Dhage Swapnil Ashok		28)	Deste Koushik	
9)	Garale Tushar Kailas		29)	Borse Ashok Vilkhav	
10)	AHER DEPALE DADU #SHARH		30)	Walia Jayesh Deepak	
			31)	Bhalde Aditya Sushr	
11)	Joshi Shubham Sanjay		32)	Bhadane Prachi Sanjay	
12)	GAJARE MANOJ SHARAD		33)	Deshmukh Inchal D.	
13)	MAHAJAN PARESH DEEPA		34)	Godse Saurabh B	
14)	KOLTE PRASAD ANANT		35)	Kishor Gujarathi	
15)	LOKHANE ROHIT ABHAY ANANT		36)	Jaytap Sonali	
16)	Snagle Roshan Ramesh		37)	Bhagshi Jishi	
17)	JADAV ADITYA ANIL		38)	Tushar More	
18)	RASAL YASH PRKASH		39)	Borse Nilesh P.	
19)	PAGAR ROHIT LAHANU		40)	Amrutar Ritesh Sanjay	

Program Coordinator

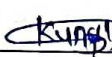




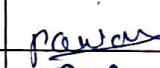
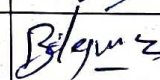
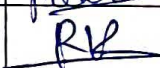

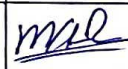
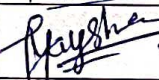
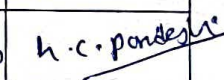


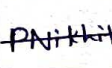


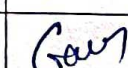
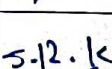
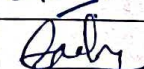

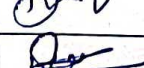
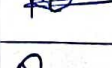
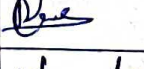
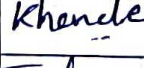


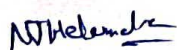
HOD

## Electrical Engineering Department

Date: 08/10/2018

Attendance Record: Add-on program "PLC & SCADA programming & its Applications".

Sr. no.	Name of Students	Sign	Sr. no.	Name of Students	Sign
41)	Dange Kunal V.		57)	Dhenale Rajesh R	
42)	Mulane Pooja M.		58)	Patil Shubum Karlos	
43)	Narang Rohit A		59)	Pawar Sanit Jagannad	
44)	Swaphil J. Badyujar		60)	Kavindra Kumar	
45)	Kalewar Divya		61)	Gaikwad Swapnil Maruti	
46)	Thakre Jayeshrao		62)	Pardeshi Harshad Chhagan	
47)	Sonawane Rashmi Vijay		63)	Patil Geet Pramod	
48)	Pawar Nikhil		64)	Patil Dnyanad Keshav	
49)	Kar Nithanad		65)	Gandgude Phuraj	
50)	Sonawane Rohit K.				
51)	Narang Rohit Anun				
52)	Nangare Darshan				
53)	Nagmoti Pratik				
54)	Mulane Puja				
55)	Khande Sarvesh S				
56)	Mare Tushar R				



Program Coordinator




Prof. (Dr.) Sahebrao B. Bagal  
Principal

Late G. N. Sapkal College of Engineering  
Anjaneri, Nashik-422 213.



HOD



# KALYANI CHARITABLE TRUST'S LATE G. N. SAPKAL COLLEGE OF ENGINEERING

Kalyani Hills, Anjaneri-Vadholi, Trimbareshwar Road, Dist: Nashik - 422 212 (India)  
Tel: +91 - 2594 - 220168/71, Fax: +91 - 2594 - 220174  
Website: www.sapkalknowledgehub.org, E-mail: gne\_engineering@sapkalknowledgehub.com



## FEEDBACK FORM

We would appreciate if you could take a few minute to share your opinion with us.

Name of the Department: Electrical Engg

Topic: 5 days Workshop on 'PLC & SCADA Prog

Conducted by: Electrical Department

Class: TE

Date: 4/10/18  
8/10/18

Time: 10-5

Sr. No.	Performance Attributes	Rating									
		1	2	3	4	5	6	7	8	9	10
1.	Was the Expert properly introduced to the audience?								✓		
		1 - Not at all; 10 - Properly Introduced									
2.	Was the objective of the expert talk specified properly to you?									✓	
		1 - Objective not specified; 10 - Properly Specified									
3.	Was the Expert interactive in his delivery?								✓		
		1 - Not Interactive; 5 - Interactive; 10 - Very Interesting									
4.	Rate the language of the expert.								✓		
		1 - Simple Language; 10 - Difficult to Understand									
5.	Whether sufficient time was available for completion of the talk?									✓	
		1 - Insufficient time available; 10 - Sufficient time available									
6.	Whether sufficient time was available for question & answer session?								✓		
		1 - Insufficient time available; 10 - Sufficient time available									
7.	Was the speaker friendly & willing to answer questions?									✓	
		1 - Didn't answer questions; 10 - Answered all questions									
8.	Would you recommend this expert for another session with your juniors?									✓	
		1 - Not at all; 10 - Highly Recommended									
9.	Did the expert use teaching aids / other tools for disseminating the topic?									✓	
		1 - No tools used; 10 - Used all types of teaching tools									
10.	Did the talk improve your knowledge about the topic discussed?									✓	
		1 - Nil; 5-Moderate; 10 - Greatly improved knowledge									

Name of Student: Wagh Sweety B.

Sign: Sweety

Please return this form to the co-ordinator at the end of seminar



# KALYANI CHARITABLE TRUST'S LATE G. N. SAPKAL COLLEGE OF ENGINEERING

Kalyani Hills, Anjaneri-Vadholi, Trimbareshwar Road, Dist: Nashik - 422 212 (India)  
Tel: +91 - 2594 - 220168/71, Fax: +91 - 2594 - 220174  
Website: www.sapkalknowledgehub.org, E-mail: gns\_engineering@sapkalknowledgehub.com



## FEEDBACK FORM

We would appreciate if you could take a few minute to share your opinion with us.

Name of the Department: Electrical

Topic: 5 days Workshop on 'PLC & SCADA Prog'

Conducted by: Electrical Department

Class: TE

Date: 4/10/18 - 8/10/18 Time: 10 - 5

Sr. No.	Performance Attributes	Rating									
		1	2	3	4	5	6	7	8	9	10
1.	Was the Expert properly introduced to the audience?								✓		
		1 - Not at all; 10 - Properly Introduced									
2.	Was the objective of the expert talk specified properly to you?							✓			
		1 - Objective not specified; 10 - Properly Specified									
3.	Was the Expert interactive in his delivery?							✓			
		1 - Not Interactive; 5 - Interactive; 10 - Very Interesting									
4.	Rate the language of the expert.		✓								
		1 - Simple Language; 10 - Difficult to Understand									
5.	Whether sufficient time was available for completion of the talk?								✓		
		1 - Insufficient time available; 10 - Sufficient time available									
6.	Whether sufficient time was available for question & answer session?								✓		
		1 - Insufficient time available; 10 - Sufficient time available									
7.	Was the speaker friendly & willing to answer questions?							✓			
		1 - Didn't answer questions; 10 - Answered all questions									
8.	Would you recommend this expert for another session with your juniors?								✓		
		1 - Not at all; 10 - Highly Recommended									
9.	Did the expert use teaching aids / other tools for disseminating the topic?							✓			
		1 - No tools used; 10 - Used all types of teaching tools									
10.	Did the talk improve your knowledge about the topic discussed?								✓		
		1 - Nil; 5-Moderate; 10 - Greatly improved knowledge									

Name of Student: Borse Shubham R

Sign: Shubham

Please return this form to the co-ordinator at the end of seminar



# CERTIFICATE



In ssociation with

**“Yashorath Electronics Systems Pune”**

PAP J-75, J Block, Near Swami Samarth Weighing Bridge, Bhosari MIDC, Bhosari, Pune - 411026  
www.yashorath.com

Organized by

**Electrical Engineering Department**  
**Late G. N. Sapkal College of Engineering**  
Anjaneri, Nashik, Maharashtra, India.

This is to certify that Mr./Ms. Wagh Yogesh Sanjay Has  
attained 5 days' workshop on “PLC and SCADA Programming and It's Application” between 04/10/2018 to 08/10/2018.

**Mr. M. V. Hallale**  
Director  
Yashorath Electronic System

**Prof. N. D. Anwat**  
Co-Ordinator  
Workshop and Seminar

**Prof. R. N. Baji**  
HOD  
Electrical Engineering

**Dr. S. B. Bagal**  
LGNSCO  
Principal



# CERTIFICATE



In ssoiation with

**“Yashorath Electronics Systems Pune”**

PAP J-75, J Block, Near Swami Samarth Weighing Bridge, Bhosari MIDC, Bhosari, Pune - 411026  
www.yashorath.com

Organized by

**Electrical Engineering Department**

**Late G. N. Sapkal College of Engineering**

Anjaneri, Nashik, Maharashtra, India.

This is to certify that Mr. /Ms. kode Rishikesh Nitin Has  
attained 5 days' workshop on “PLC and SCADA Programming and It's Application” between 04/10/2018 to 08/10/2018.

**Mr. M. V. Hallale**  
Director  
Yashorath Electronic System

**Prof. N. D. Anwat**  
Co-Ordinator  
Workshop and Seminar

**Prof. R. N. Baji**  
HOD  
Electrical Engineering

**Dr. S. B. Bagal**  
LGNSCO  
Principal





# CERTIFICATE



In ssociation with

**“Yashorath Electronics Systems Pune”**

PAP J-75, J Block, Near Swami Samarth Weighing Bridge, Bhosari MIDC, Bhosari, Pune - 411026  
www.yashorath.com

Organized by

**Electrical Engineering Department**  
**Late G. N. Sapkal College of Engineering**  
Anjaneri, Nashik, Maharashtra, India.

This is to certify that Mr./Ms. Chavan Anant Ekanath Has  
attained 5 days' workshop on “PLC and SCADA Programming and It's Application” between 04/10/2018 to 08/10/2018.

*M.V.H*

**Mr. M. V. Hallale**  
Director  
Yashorath Electronic System

*N. Anwat*

**Prof. N. D. Anwat**  
Co-Ordinator  
Workshop and Seminar

*R. N. Baji*

**Prof. R. N. Baji**  
HOD  
Electrical Engineering

*S. B. Bagal*

**Dr. S. B. Bagal**  
LGNSCO  
Principal



# CERTIFICATE



In ssociation with

**“Yashorath Electronics Systems Pune”**


PAP J-75, J Block, Near Swami Samarth Weighing Bridge, Bhosari MIDC, Bhosari, Pune - 411026  
www.yashorath.com


Organized by


**Electrical Engineering Department**  
**Late G. N. Sapkal College of Engineering**  
Anjaneri, Nashik, Maharashtra, India.

This is to certify that Mr./Ms. Borse Shubham Rajendra Has  
attained 5 days' workshop on “PLC and SCADA Programming and It's Application” between 04/10/2018 to 08/10/2018.

  
**Mr. M. V. Hallale**  
Director  
Yashorath Electronic System

  
**Prof. N. D. Anwat**  
Co-Ordinator  
Workshop and Seminar

  
**Prof. R. N. Baji**  
HOD  
Electrical Engineering

  
**Dr. S. B. Bagal**  
LGNSCO  
Principal