

#### BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

Accredited by NAAC With 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur
Near Chitranagari, Kolhapur - 416013 (MS)

DTE INSTITUTE CODE: EN-6288 Dr. Patangrao Kadam Tel.No.: (0231) 2638893, 2638894, Fax: 2636050

Web: http://coekolhapur.bharatividyapeeth.edu E- mail: coekolhapur@bharatividyapeeth.edu

Dr. Vijay Ghorpade M.E., Ph. D. (Computer)

PRINCIPAL

### **NAAC SSR CYCLE-2**



Criterion 3	Research, Innovations and Extension
Key Indicator 3.5	Collaboration

3.5.1. Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

Name of the MoU/linkage: Pro Automater Robotics Automation,

Kolhapur

FOUNDER CHANCELLOR

M.A., LL. B., Ph. D.

Name of actual activity: Students workshop on "PLC and SCADA"



#### MEMORANDUM OF UNDERSTANDING

Between









And

### ProAutomater Robotics & Automation

This Memorandum of Understanding (MOU) is to be signed between **Bharati Vidyapeeth's College of Engineering, Kolhapur** and **ProAutomater on dated 25/02/2019** to promote industry and institute interaction for the mutual benefits of two signing organizations.

It will include the following general cooperative areas like-

- 1. Training programs through faculty exchange.
- 2. Industry institute resource sharing to develop the human resource.
- 3. Extend participation for attending seminars, national and international conferences.
- **4.** Opportunity for the faculty or person from the signing industry to work on a specific project or research activity.
- 5. Assistance of industry experts in curriculum development.
- 6. To acquaint the students and faculties on job functions, current industrial practices, new technologies and practical methodologies.
- 7. Opportunity for Students regarding Industrial Visit / Student internship / Placement opportunities whenever applicable.

#### General terms of the MOU:

- 1. The MOU will come into effect from the date of signing of the MOU between two parties and will be valid till such time it is not terminated or closed with mutual consent between the two parties.
- 2. The MOU can be terminated without any justification or reason through a letter by any of the two organizations without any financial liability or obligation for compensation for the termination.
- 3. There shall be no financial obligation between the two signing parties and all the agreed activities will be conducted with mutual consent and understanding.

**4.** All the documents and data emerging from the research activities carried out by the faculty or industry person will be the property of two signing organizations

#### This MOU is signed in the presence of:

- Dr. Vijay R Ghorpade, Principal, Bharati Vidyapeeth's College of Engineering, Kolhapur.
- 2. Mr. Onkar Todkar,
  Director, ProAutomater Robotics And Automation, Kolhapur.



**ProAutomater** 

KOLHAPUR ON THE NO.

Bharati Vidyapeeth's College of Engineering

Kolhapur

1. Sign:

2. Name: Mr. Onkar Todkar

3. Designation: Director, PROAUTOMATER

Colles Nath Engineering, Kolhapus
3. Designation

1.Sign:

Date: 25/02/2019

Date: 25/02/2019

Bharati Vidyapeeth's



### **COLLEGE OF ENGINEERING, KOLHAPUR**

• Organizing Department: Electronics and Telecommunication Engineering

• Name of Activity: Workshop on "PLC and SCADA"

• Name of Coordinator: Mrs. A.H.Tirmare

• **Date of Activity:** 27<sup>th</sup> Feb to 2<sup>nd</sup> Mar 2019

• Number of Participants: 40

Details of Activity: Four Days Workshop on "PLC and SCADA" was organized by Department of
Electronics and Telecommunication Engineering for Final year Students. Total 40 number of students
participated in this workshop. Presentation and hands on sessions are conducted on PLC programming
and SCADA.

 Name of Resource Person: Mr. Dinesh Dhumal (PROAUTOMATER Robotics & Automation Kolhapur.)

Day	Presentation & Hands on session
	Switches – Push Buttons, Toggle Switch NO & NC contact, Relay, Contactor.
	Transistor – PNP & NPN transistor. Timer – Mechanical timer, Electronics IC
	timer. Sensor – Magnetic sensor, Limit Switch Float Sensor, Proximity Sensor.
1	PLC :- Programmable Logic Controller
	Basics Of PLC: 1) Role of PLC in Automation. 2) Introduction to PLC
	Hardware. 3) Block Diagram Of PLC 4) Introduction to Field Devices Attaches
	to PLC. 5) Types of Input and Output. 6) Sink & Source Concept. 7) Protocols
	Used in PLC communication
	PLC (Allen Bradley): 1) Introduction to PLC Software 2) Addressing Concept
2	3) Implementation of Logic Gates in Ladder Logic 4) Monitoring & Modifying
&	Data Table 5) Forcing Input & Output 6) Communication of PLC & Microsoft
3	Excel 7) Programming Instruction: a) Bit b) Timer c) Counter d) Arithmetic e)
	Logical f) Scaling (For analog Input)
	Supervisory Control And Data Acquisition (SCADA): 1) Creating New SCADA
4	Application 2) Creating & Editing Display With animation 3) Creating Real &
4	Historical Trend 4) Creating alarms & Events 5) Writing Logic Through Script
	6) Connectivity With Database(Excel) 7) Communication of PLC & SCADA.



#### 1. Outcome of Activity:

- 1. Students are able to work in team.
- 2. Students are able to apply the PLC programming knowledge acquired during their course of studies.
- 3. Students are able to identify, formulate and solve the real world problem in Industrial Automation

Mrs. A. H. Tirmare

Coordinator

Dr. K. R. Desai

HOD

Dr.V.R.Ghorpade

**Principal** 



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PRINCIPAL

Dr. Vijay Ghorpade

M.E., Ph. D. (Computer)

Web: http://coekolhapur.bharatividyapeeth.edu E- mail: coekolhapur@bharatividyapeeth.edu

To,

Mr.Dinesh Dhumal

FOUNDER & CHANCELLOR

Dr. Patangrao Kadam

M.A., LL. B., Ph. D.

ProAutomater Pvt.Ltd.

Kolhapur.

Dear Sir,

We take this opportunity to invite you to conduct four days Workshop on "PLC and SCADA Programming" For third year of our Institute. This workshop is organized by BVCOEK Department of Electronics & Telecommunication Engineering from 27-2-2019 to 2-3-2019 from 10.00 am to 5.00 pm in ETC Department. Hope this workshop will provide premier forum for the discussion of new advances in field of PLC & SCADA.

In this regard we invite you as resource person for this workshop. Hope u will accept invitation and cooperate.

Thanking You



**PRINCIPAL** 

Dr. Vijay. R. Ghorpade



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Dr. Vijay Ghorpade

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Web: http://coekolhapur.bharatividyapeeth.edu E- mail: coekolhapur@bharatividyapeeth.edu

To.

Mr.Dinesh Dhumal

FOUNDER & CHANCELLOR

ProAutomater Pvt.Ltd.

Kolhapur.

Dear Sir,

We would like to extend our warm thanks to you for conducting 6 days workshop on "PLC and SCADA Programming" from 27-2-2019 to 2-3-2019 from 10.00 a.m to 5.00 p.m. in ETC Department. We hope your valuable guidance will be beneficial to our students for curriculum as well as in their future.

We genuinely thank you once again for the support and time given by you and sincerely hope that you would continue to extend your valuable support and cooperation in our future initiatives as well.

Thanking You,



Dr.V.R.Ghorpade

**PRINCIPAL** 

# COLLEGE OF ENGINEERING, KOLHAPUR

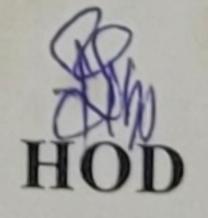
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

# WORKSHOP ON PLC AND SCADA

Day & Date: 2 Mar 2019 Saturday

Sr.No	Name of Student	Session-I	Session-II	Session-III
1.	Patil Diksha M	The state of the s	Mation	Mattel
2.	Patil Kalyani K.	Hear	Thed	Heat
3.	Patil Priyanka G	BPatil	Beliebel	Bradil
4.	Patil Rohini R	Designation of the second seco	Pedil	Pedil
5.	Patil Sanhita V	Stepette	Lette,	Letus
6.	Pavase Rakshanda D	Rowase	Rowase	Rowase
7.	Powar Shivani S	approse.	Bewale	Jamole
8.	Sankpal Prajakta T	Bankpall	Banklay	Bankpal
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15.	Walikar Nilofar S	Modèls	Modelle	Reseliks
16.	Zade Bhushan S	tacte	- Back	10000000000000000000000000000000000000
17.	Joshi Satej M	Torjoshu'	Lowiosh,	Zoniali.
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19.	Sathe Nilesh M	and -	Dad 1	Dent

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20.	Potdar Jyoti D	Path.	100	
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24.	Bhosale Akshay J	Ashasale	Ashosak	Ahosale
25.	Dhonukshe Neha R	Polhowkshe	Alhounkeh	
26.	Dinde Suraj N	200 Star	The state of the s	2 June
27.	Gaikwad Adityaa S	Otaikusas	Dealkewood	Raikulaes
28.	Ingrole Nupur A	Dingoole	Wingrobe	Wingrok
29.	Jadhav Akshay S	At Tadhar	As Tackhor	Affaelhar
30.	Jadhav Omkar S	Jackave	Doctal	godnen
31.	Jamdar-Velhal Surabhi	Salvi.	ofcalahi	of alin-
32.	Kamble Ashish P	Romble,	2200 Sei	Bent :
33.	Landage Rohini M	Fonders.	Pondyes,	Pardye.
34.	More Deepak M	FORE	TORE	Fore.
35.	Patil Niranjan M	Natil	Watil	Watil
36.	Pawale Anuja S	Bawale	Atavale	Dawale
37.	Surywanshi Adesh K	Study	Bury	July .
38.	Sabale Rahul	Alsaberle.	Beaball	Blabale
39.	Khamkar Shrushti R	Skhamkar	Inamkar	Junamiar
40	Suraj Pawar	Spavar	Spawar	Spawor
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# COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

### WORKSHOP ON PLC AND SCADA

# Day & Date: 28 Feb 2019 Thursday

Sr.No	Name of Student	Session-I	Session-II	Session-III
1.	Patil Diksha M	MPOSI	MPast	
2.	Patil Kalyani K.	Kepus	Keper	Zaper
3.20	Patil Priyanka G	Blatt	Blate	Betil
4.	Patil Rohini R	128h	Testi	Total
5.	Patil Sanhita V	Stall	foliv	fethe
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8.	Sankpal Prajakta T	Bankfall	Bunkfall	Bankpal
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30.	Jadhav Omkar S	Dadhor	Buelhow	Budhay
31.	Jamdar-Velhal Surabhi	sfair.	applele	afali
32.	Kamble Ashish P	Hanse	Denor S.	Randale -
33.	Landage Rohini M	Pordejeg.	Fordges.	Fordger.
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35.	Patil Niranjan M	Nath	1 Reto	1/2/18
36.	Pawale Anuja S	Davale	Balvale	towale
37.	Surywanshi Adesh K	Asury	July.	Hubt.
38.	Sabale Rahul	BIsabale	Robale	Bisabale
39.	Khamkar Shrushti R	1	1	
40	Suroj Pawar	Spawar	Spawar	Schamkar
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# COLLEGE OF ENGINEERING, KOLHAPUR

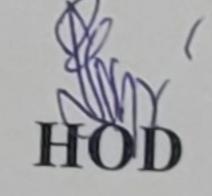
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

### WORKSHOP ON PLC AND SCADA

### ATTENDANCE Day & Date: 27 Feb 2019, Wednesday

Sr.No	Name of Student	Session-I	Session-II	Session-III
1.	Patil Diksha M	Math		
2.	Patil Kalyani K.	Kepust	Kapers	Kepus
3.	Patil Priyanka G	Balil	Bell	Bratis
4.	Patil Rohini R	Totali.	perdid	perdi
5.	Patil Sanhita V	Lete	flet	Lotte
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15.	Walikar Nilofar S	Khirleks	Dariles	Micelele
16.	Zade Bhushan S	Bacte	Backe	Acroto.
17.	Joshi Satej M	Linjoshi	Smioshi	Smiode
18.	Hokale Mayur D	marines	Mayus.	Mayer
19.	Sathe Nilesh M	Dut.	alm.	DIM.

20.	Potdar Jyoti D	Files	Estas.	Felds
21.	Abdar Suraj S	Sepdas	Soboler	Bolder
22.	Arade Nishant N	Placede	Pleade	Meade
23.	Bhojkar Namrata K	N/3hijkat	Nkalvojkar	NBhijkale
24.	Bhosale Akshay J	ABhasale	Ashasale	ABhasale
25.	Dhonukshe Neha R	Alukshe.	Alukshe.	Aluksha
26.	Dinde Suraj N	Justi	A STATE	To The
27.	Gaikwad Adityaa S	Oraikulad	Waikwaid	Waikwad
28.	Ingrole Nupur A	Dingerale	Dingerale	Wingrole
29.	Jadhav Akshay S	AD Joshan	AtTadhan	Assadha
30.	Jadhav Omkar S	8mkar J		omakarT
31.	Jamdar-Velhal Surabhi	maleri.	skari-	selaleh.
32.	Kamble Ashish P	Dambe.	Dansols.	
33.	Landage Rohini M	Forolgeg.	Plan	Forderes
34.	More Deepak M	TORE	EGRE	ROPER
35.	Patil Niranjan M	Natis	Natil	Patil
36.	Pawale Anuja S	Kandol	kaisal	Javod,
37.	Surywanshi Adesh K	Keury	Bully	July.
38.	Sabale Rahul	Blabale	Blabale	Plahale
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### COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

### WORKSHOP ON PLC AND SCADA

ATTENDANCE
Day & Date: 1 Mar 2019 Friday

Sr.No	Name of Student	Session-I	Session-II	Session-III
1.	Patil Diksha M	Matin	Matig	Pato
2.	Patil Kalyani K.	Kpall	KRACIO	
3.	Patil Priyanka G	Batil	Betil	Brate
4.	Patil Rohini R	Deskil	JOEAN!	FRAN
5.	Patil Sanhita V	Jetel	Arth	Artil
6.	Pavase Rakshanda D	Rawase	Rowase	Rowase
7.	Powar Shivani S	Bware	- Dware:	Cowas
8.	Sankpal Prajakta T	Prannage	Asamblal	fami-lal
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21.	Abdar Suraj S	stodar.	20 Locar	Stoler
22.	Arade Nishant N	Ascell	Placele	Roade
23.	Bhojkar Namrata K	NKBlujkok	Misheykas	NKBherkal
24.	Bhosale Akshay J	Strasale	Shosak	Azhasale.
25.	Dhonukshe Neha R	aliekshe.	Alukshe	Alukehre
26.	Dinde Suraj N	Strate.	The	The
27.	Gaikwad Adityaa S	Draikwad	Waikusies	Walkwood
28.	Ingrole Nupur A	Wingrah	Wingrale	wingede
29.	Jadhav Akshay S	AS-Ordhar	Adagha	Attachan
30.	Jadhav Omkar S	Dadhau_	2 adhan	EDadhar.
31.	Jamdar-Velhal Surabhi	ofalahi_	ofcolehi.	alahi
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34.	More Deepak M	Corre	DORR.	100 RE
35.	Patil Niranjan M	Vales	Nelles	Vetes
36.	Pawale Anuja S	- Landa	Jawa .	Javala
37.	Surywanshi Adesh K	Swoij.	July.	Stutt -
38.	Sabale Rahul	REsabale	PToabale	Ptsabale
39.	Khamkar Shrushti R	oknamkar	Inamkar	Irrankar
40	suraj Pawar	3 Pauar	Spawar	Spaar

HOD





### **COLLEGE OF ENGINEERING, KOLHAPUR.**

Department of Electronics & Telecommunication Engineering

**ProAutomater Robotics & Automation, Kolhapur.** 



This is to Certify, that Mr./Miss. Paul Diksha M of Bharati Vidyapeeth's College of Engineering, Kolhapur has participated in short Term Training Programme on "PLC & SCADA" held from 28th feb to 2nd march 2019.







