



## 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  
Tel.No.: (0231) 2638893, 2638894, Fax : 2636050  
Web : <http://coekolhapur.bharatividyaapeeth.edu> E- mail : [coekolhapur@bharatividyaapeeth.edu](mailto:coekolhapur@bharatividyaapeeth.edu)

FOUNDER CHANCELLOR  
**Dr. Patangrao Kadam**  
M.A., LL. B., Ph. D.

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

# NAAC SSR CYCLE- 2



Criterion 1	Curricular Aspects
Key Indicator 1.2	Academic Flexibility
1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs and also completed online MOOC programs like SWAYAM, NPTEL etc. as against the total number of students during the last five years	



## BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department:** Electronics & Telecommunication Engineering
- **Name of Activity:** Add-on Course “PLC and SCADA programming”
- **Course Code:** ETC 181901
- **Name of Coordinator:** 1. Ms. A. H. Tirmare  
2. Ms. P. S. Mali
- **Name of Resource Person:** Mr. Aakash Dongale, Proautomater Kolhapur
- **Date of Activity:** 27<sup>th</sup> Feb to 4<sup>th</sup> Mar 2019
- **Participant:** Third Year & Final Year E&TC Students (106)
- **Details of Activity:**

PLCs are used in industrial automation to increase reliability, system stability, and performance, minimizing the need for human operators and the chances of human error. Six days Workshop on “PLC and SCADA Programming” was organized by the Department of Electronics and Telecommunication Engineering for third-year students. A total of 106 students participated in this workshop. Presentation and hands-on sessions are conducted on PLC programming and SCADA.
- **Outcome of Activity:**
  - Students are able to work in a teams.
  - Students are able to apply the PLC programming knowledge acquired during their course of studies.
  - Students are able to identify, formulate and solve the real-world problem in Industrial Automation.
- **How it Bridges gap between Industry and Academia:** This workshop helped students to know what are the current trends in industry students are able to understand the practical application of PLC.

• Photo:



*AH*

Mr. A. H. Tirmare / Ms. P. S. Mali  
Coordinator

*Ponni*

*K.R. Desai*

Dr. K. R. Desai  
HOD

*V.R. Ghorpade*

Dr. V. R. Ghorpade  
Principal



Social Transformation Through Dynamic Education

**BHARATI VIDYAPEETH'S**  
**COLLEGE OF ENGINEERING KOLHAPUR**  
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

**Add-on Course**  
**“PLC and SCADA Programming”**

Course Code:ETC181901

Academic Year 2018-19

Date: 27<sup>th</sup> Feb to 4<sup>th</sup> Mar 2019

**Course Objectives:**

To introduce concept of PLC and SCADA.

To train students in PLC programming which is useful in industry for automation

To introduce SCADA with PLC programming

To introduce practical requirements in industry related with PLC programming

**Course Outcomes:**

On successful completion of the course, the students should be able to

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.

**COURSE CONTENTS**

<b>Session</b>	<b>Contents</b>	<b>Hours</b>
1	Basics - 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	02
2	Basics Of PLC: 1) Role of PLC in Automation. 2) Introduction to PLC Hardware. 3) Block Diagram Of PLC	03
3	4) Introduction to Field Devices Attaches to PLC. 5) Types of Input and Output.	02
4	6) Sink & Source Concept. 7) Protocols Used in PLC communication	03

5	PLC (Allen Bradley): 1) Introduction to PLC Software 2) Addressing Concept	02
6	3) Implementation of Logic Gates in Ladder Logic 4) Monitoring & Modifying Data Table 5) Forcing Input & Output 6) Communication of PLC & Microsoft Excel	03
7	7) Programming Instruction: a) Bit b) Timer c) Counter d) Arithmetic e) Logical f) Scaling (For analog Input)	02
8	Supervisory Control And Data Acquisition (SCADA) : 1) Creating New SCADA Application	03
9	2) Creating & Editing Display With animation 3) Creating Real & Historical Trend 4) Creating alarms & Events	02
10	5) Writing Logic Through Script 6) Connectivity With Database(Excel)	03
11	7) Communication of PLC & SCADA.	02
12	8) Industrial applications	03

### Hardware Requirement:

- Desktop PC/Laptop with PLC Software.
- Internet Connection to installation of toolbox
- LCD Projector with screen

**Resource Person:** Mr. Aaksh Dongale, Proautomater Kolhapur



Mrs. A. H. Tirmare / Ms. P. S. Mali  
Coordinator




Dr. K. R. Desai  
HOD



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**BHARATI VIDYAPEETH'S  
COLLEGE OF ENGINEERING KOLHAPUR**

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

**Add-on Course  
“PLC and SCADA Programming”**

Course Code:ETC181901

Academic Year 2020-21

**Schedule**

Session	Date	Time	Time
1	27/02/2019	10.00.00 am to 12.00 noon	2.00 p.m-5.00 p.m
2	28/02/2019	10.00.00 am to 12.00 noon	2.00 p.m-5.00 p.m
3	1/03/2019	10.00.00 am to 12.00 noon	2.00 p.m-5.00 p.m
4	2/03/2019	10.00.00 am to 12.00 noon	2.00 p.m-5.00 p.m
5	3/03/2019	10.00.00 am to 12.00 noon	2.00 p.m-5.00 p.m
6	4/03/2019	10.00.00 am to 12.00 noon	2.00 p.m-5.00 p.m

Mrs. A. H. Tirmare / Ms. P. S. Mali  
Coordinator

Dr. K. R. Desai  
HOD



Social Transformation Through Dynamic Education

**BHARATI VIDYAPEETH'S**  
**COLLEGE OF ENGINEERING KOLHAPUR**  
**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION**  
**ENGINEERING**

**Course Code:ETC181901**

**Add-on Course**

**“PLC and SCADA Programming”**

Sr. No	Name Of Student	Course Registration ID	Sr. No.	Name Of Student	Course Registration ID Number
1	Ambekar Soham Kishor	ETC181901001	54	Tarse Tejas Mohan	ETC181901054
2	Avdankar Shubham Sanjay	ETC181901002	55	Thakar Vishal Gopal	ETC181901055
3	Behere Pravin Dhula	ETC181901003	56	Thorat Viraj Dayanand	ETC181901056
4	Bharati Pratik Krishna	ETC181901004	57	Vanjire Shubham Kallappa	ETC181901057
5	Bhosale Yash Ravindra	ETC181901005	58	Vhankhande Rohit Amasiddha	ETC181901058
6	Chahare Aditi Vinod	ETC181901006	59	Yadav Pratik Sanjay	ETC181901059
7	Chavan Abhijit Raju	ETC181901007	60	Zambre Sonam Prabhakar	ETC181901060
8	Chavan Sunil Govind	ETC181901008	61	Vhanalkar Avinash T	ETC181901061
9	Chothe Manasi Anil	ETC181901009	62	Mujawar Sahil Jamir	ETC181901062
10	Desai Ruturaj Vajinath	ETC181901010	63	Khot Megharani Laxman	ETC181901063
11	Gawali Aryan Babaso	ETC181901011	64	Mokashi Taimina Ziyauddin	ETC181901064
12	Ghatage Atharv Ramchandra	ETC181901012	65	Mokashi Tanzila Ziyauddin	ETC181901065
13	Gidde Prachi Pramod	ETC181901013	66	Dhumal Sohan Sakharan	ETC181901066
14	Golgire Rushikesh Vijay	ETC181901014	67	Patil Digambar Anil	ETC181901067
15	Jadhav Samiksha Sunil	ETC181901015	68	Rane Tejas Sanjay	ETC181901068
16	Jagtap Hemant Eknath	ETC181901016	69	Patil Dhanraj	ETC181901069
17	Jamnik Shivani Yuvraj	ETC181901017	70	Patil Gurunath Yuvraj	ETC181901070
18	Joshi Roshani Rajaram	ETC181901018	71	Patil Prachi Ramchandra	ETC181901071
19	Kadam Jayraj Kiran	ETC181901019	72	Patil Prathamesh Dattatrya	ETC181901072
20	Kamble Atharv Shamrao	ETC181901020	73	Patil Prathamesh Tanaji	ETC181901073
21	Kamble Madhuri Baburao	ETC181901021	74	Patil Rohit Vasantao	ETC181901074
22	Katharut Amruta Sitaram	ETC181901022	75	Patil Samruddhi Dhiraj	ETC181901075
23	Kawade Vishal Kundlik	ETC181901023	76	Patil Shravani Sharad	ETC181901076
24	Kawale Lavanya Rajvilas	ETC181901024	77	Abdar Suraj Siddheshwar	ETC181901077
25	Kendale Tejas Navnath	ETC181901025	78	Arade Nishant Namdev	ETC181901078
26	Khandagale Shruti Vijaykumar	ETC181901026	79	Attar Swaliha Mahmmadaarif	ETC181901079
27	Kharade Atharv Dattatray	ETC181901027	80	Belekar Akshata	ETC181901080
28	Khot Pranav Nandkumar	ETC181901028	81	Bhogam Omkar	ETC181901081
29	Kurale Shreyas Arvind	ETC181901029	82	Bhojkar Namrata Kumar	ETC181901082
30	Madale Sushil Sunil	ETC181901030	83	Bhosale Akshay Jayshing	ETC181901083
31	Makdiya Keval Mahesh	ETC181901031	84	Bhujange Sourabh	ETC181901084
32	Mokale Rutuja Ramesh	ETC181901032	85	Bhusnar Aishwarya Babasaheb	ETC181901085
33	More Vedant Santosh	ETC181901033	86	Chavan Akash Sanjiv	ETC181901086

34	Munse Prerana Prafulla	ETC181901034	87	Chechar Akshay B.	ETC181901087
35	Naik Sairaj Deepak	ETC181901035	88	Daware Anuja Ashok	ETC181901088
36	Nalavade Saksham Sunil	ETC181901036	89	Desai Neel Jitendra	ETC181901089
37	Nale Twijel Ramdas	ETC181901037	90	Dhonukshe Neha Ramesh	ETC181901090
38	Patil Aditya Ravaji	ETC181901038	91	Dinde Suraj Nivruti	ETC181901091
39	Patil Deepali Manohar	ETC181901039	92	Dongale Pramod Prakash	ETC181901092
40	Patil Shubham Ravindra	ETC181901040	93	Gaikwad Adityaa Santosh	ETC181901093
41	Patil Tanaya Vikram	ETC181901041	94	Gavali Pornima Vijay	ETC181901094
42	Pol Nikhil Raju	ETC181901042	95	Ghonsalis Olinta Sayar	ETC181901095
43	Salunkhe Abhishek Namdev	ETC181901043	96	Ingrole Nupur Abhinandan	ETC181901096
44	Shidalale Sourabh Somappa	ETC181901044	97	Jadhav Akshay Sadanand	ETC181901097
45	Shinde Ashish Hemant	ETC181901045	98	Jadhav Ankita B.	ETC181901098
46	Shinde Gaurav Arun	ETC181901046	99	Jadhav Omkar Shrikant	ETC181901099
47	Shinde Harshwardhan Vishwajeet	ETC181901047	100	Jadhav Priya Vijay	ETC181901100
48	Shinde Pranay Tanaji	ETC181901048	101	Jadhav Sanket Mansingrao	ETC181901101
49	Shinde Shivendrasinh Sandiprao	ETC181901049	102	Jadhav Srushti Sunil	ETC181901102
50	Shinde Shrutika Sayaji	ETC181901050	103	Jamdar-Velhal Surabhi Sushilkumar	ETC181901103
51	Suryawanshi Sneha Nandkumar	ETC181901051	104	Gawade Priyanka	ETC181901104
52	Sutar Vaibhav Vishnu	ETC181901052	105	Kamble Ashish Pandurang	ETC181901105
53	Tarlekar Pankaj Santosh	ETC181901053	106	Kamble Priyanka Namdev	ETC181901106



**Mrs. A. H. Tirmare / Ms. P. S. Mali**  
**Coordinator**




**Dr. K. R. Desai**  
**HOD**





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FOUNDER & CHANCELLOR  
**Dr. Patangrao Kadam**  
M.A., LL. B., Ph. D.

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

To,

Mr.Dinesh Dhumal

Proautomater

Kolhapur.

Respected Sir/Madam

We take this opportunity to invite you to conduct six days Workshop on “PLC and SCADA Programming” For third year & final year students of our Institute. This workshop is organized by BVCOEK Department of Electronics & Telecommunication Engineering on 27-2-2019 to 4-3-2019 from 10.00 a.m to 5.00 p.m 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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PRINCIPAL

**Dr. Vijay Ghorpade**

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

To,

Mr.Dinesh Dhumal

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 4-3-2019 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**



DEPARTMENT: ESTC

Class	Shift	Div :	Subject :	Name of the Faculty :				
Year								
Sem :				From			To	
Roll No.	Name	Date :	Date :	Date :	Date :	Date :	Date :	Date :
1	Ambekar Saham Kishor	27-2-19	28-2-19	1-3-19	2-3-19			
2	Shubham Sanjay Avdankar							
3	Pravin Dhruv Behere							
4	Pratik Krishna Bharati							
5	Yash Ravindra Bhosale							
6	Aditi Vinod Phakare							
7	Abhijit Raju Chavan							
8	Sunil Govind Chavan							
9	Manasi Anil Chothre							
10	Ruturaj V. Desai							
11								
12								
13	Ashwini R. Lakshajee							
14	Prachi Pramod Gidde							
15	Rushikesh Vijay Golgire							
16	Samiksha Sunil Jadhav							
17	Hemant E. Jagtap							
18	Shivani Yuvraj Jamnik							
19	Roshani Rajaram Joshi							
20	Jayraj Kiren Kadam							
21	Ashwin Shamrao Kamble							
22	Madhum Baburao Kamble							
23	Amruta Sitaram Katharut							
24	Vishal Kundlik Kawade							
25	Lavanya Rajvilas Kawade							
26	KENDALE TEJAS NAYNATH							
27	Khandagale Shrihari Vijaykumar							
28	Ashwin D. Kharade							
29	Khot Pranay Nandkumar							
30	Shreyas A. Kurale							
31	Sushil Sunil Madale							
32	Keval Mahesh Makdiya							
33	Mokale Rutuja Ramesh							
34	More Vedant Santosh							
35	Munse Prerana Pr.							
36	Sairaj Deepak Naik							
37	Gaksham Sunil Nalawade							
38	Zinzel Ramdas Nale							
39	Aditya Ravaji Patil							
40	Deepali Manohar Patil							
41	Gurunath Yuvraj Patil							
42	Prachi Ramchandra Patil							
	Prathamesh Dattatrya Patil							

44	Prathamesh . T. Patil	TPatil	TPatil	TPatil	TPatil
45	Rohit Vasant Rao Patil	RPatil	RPatil	RPatil	RPatil
46	Samaruddhi D. patil	SPatil	SPatil	SPatil	SPatil
47	Shravani S. Patil	<del>SPatil</del>	<del>SPatil</del>	<del>SPatil</del>	<del>SPatil</del>
48	Shubham Ravindra Patil	<del>SPatil</del>	<del>SPatil</del>	<del>SPatil</del>	<del>SPatil</del>
49	Tanya Vikram Patil	TPatil	TPatil	TPatil	TPatil
50	Pol Nikhil Raju	PRaju	PRaju	PRaju	PRaju
51	Abhishek Namdev Salunkhe	ASalunkhe	ASalunkhe	ASalunkhe	ASalunkhe
52	Sourabh S. Shidale	SShalale	<del>SShalale</del>	SShalale	SShalale
53	Ashish H. Shinde	<del>ASHinde</del>	<del>ASHinde</del>	<del>ASHinde</del>	<del>ASHinde</del>
54	Gaurav Arun Shinde	GAShinde	GAShinde	GAShinde	GAShinde
55	Harshwardhan Kishorji Shinde	<del>HSShinde</del>	<del>HSShinde</del>	<del>HSShinde</del>	<del>HSShinde</del>
56	Pranav tanaji Shinde	PSShinde	PSShinde	PSShinde	PSShinde
57	Shivendra S. Shinde	SShinde	SShinde	SShinde	SShinde
58	Shrutika .S. Shinde	SShinde	SShinde	SShinde	SShinde
59	sneha N. Suryawanshi	SNsuryawanshi	SNsuryawanshi	SNsuryawanshi	SNsuryawanshi
60	Vaibhav . V. Surar	<del>VSurar</del>	<del>VSurar</del>	<del>VSurar</del>	<del>VSurar</del>
61	Pankaj Santosh Tarkkar	PTarkkar	PTarkkar	PTarkkar	PTarkkar
62	Tejas Mohan Tarse	MTarse	MTarse	MTarse	MTarse
63	vishal Gopal Thakar	VTakar	VTakar	VTakar	VTakar
64	Viraj D. Thosar	VTosar	VTosar	VTosar	VTosar
65	Shubham K. Vanjire	<del>SVanjire</del>	<del>SVanjire</del>	<del>SVanjire</del>	<del>SVanjire</del>
66	Rohit . A. Vhanlkande	<del>RVhanlkande</del>	<del>RVhanlkande</del>	<del>RVhanlkande</del>	<del>RVhanlkande</del>
67		<del>RVhanlkande</del>	<del>RVhanlkande</del>	<del>RVhanlkande</del>	<del>RVhanlkande</del>
68	Sonam Prabhakar Zambhre	SPZambhre	SPZambhre	SPZambhre	SPZambhre
69	Avinash Tanaji Vhanalkar	AVhanalkar	AVhanalkar	AVhanalkar	AVhanalkar
70		<del>AVhanalkar</del>	<del>AVhanalkar</del>	<del>AVhanalkar</del>	<del>AVhanalkar</del>
71	Meghacari Laxman Khos	LXKhos	LXKhos	<del>LXKhos</del>	LXKhos
72	Tarmina Ziyuddin Mokashi	<del>TMokashi</del>	<del>TMokashi</del>	<del>TMokashi</del>	TMokashi
73	Tanzila Ziyuddin Mokashi	<del>TMokashi</del>	<del>TMokashi</del>	<del>TMokashi</del>	TMokashi
74	Saham Sakhararam Dharmal	<del>SDharmal</del>	<del>SDharmal</del>	<del>SDharmal</del>	SDharmal
75	Digambar Anil Patil	<del>DPatil</del>	<del>DPatil</del>	<del>DPatil</del>	DPatil
76	Tejas Sanjay Farné	<del>TFarne</del>	<del>TFarne</del>	<del>TFarne</del>	TFarne
77		<del>TFarne</del>	<del>TFarne</del>	<del>TFarne</del>	TFarne



BHARATI VIDYAPEETH'S  
**COLLEGE OF ENGINEERING, KOLHAPUR**  
 DEPARTMENT : E.T.C

**THEORY ATTENDANCE SHEET**

Class :	Shift :	Div :	Subject : <u>PLC &amp; SCADA Workshop</u>					
Year :			Name of the Faculty : <u>Mrs A.H. Timmore</u>					
Sem :			From :			To :		
Roll No.	Name	Date :	Date :	Date :	Date :	Date :	Date :	
1	Ambekar Saham kishor	3-3-19	4-3-19	4-3-19				
2	Shubham S. Avadant	Saham	Saham	Saham				
3	Pravin Dhula Bheke	Bheke	Bheke	Bheke				
4	Pratik Krishna Bharat	Pratik	Pratik	Pratik				
5	Nash Ravindra Bhesale	Nash	Nash	Nash				
6	Aditi V. Chohare	Aditi	Aditi	Aditi				
7	Abhijit R. Chavan	Abhijit	Abhijit	Abhijit				
8	Sunil Govind Chavan	Sunil	Sunil	Sunil				
9	MANASI A CHOHE	Manasi	Manasi	Manasi				
10	Ruturaj V. Desai	Ruturaj	Ruturaj	Ruturaj				
11								
12								
13	Abhaji - R. Ghatge	Abhaji	Abhaji	Abhaji				
14	Prachi Pramod Gidde	Prachi	Prachi	Prachi				
15	Rushikesh Vijay Golgire	Rushikesh	Rushikesh	Rushikesh				
16	Samiksha S. Jadhav	Samiksha	Samiksha	Samiksha				
17								
18	Shivani Y. Jambrik	Shivani	Shivani	Shivani				
19								
20	Jayraj Kiran Kadam	Jayraj	Jayraj	Jayraj				
21	Ashwari Shamrao Kambale	Ashwari	Ashwari	Ashwari				
22	madhuri Baburao kambale	Madhuri	Madhuri	Madhuri				
23	Amruta S. Katharut	Amruta	Amruta	Amruta				
24	Nishal Kavade	Nishal	Nishal	Nishal				
25	Lavanya R. Kawale	Lavanya	Lavanya	Lavanya				
26	Kendale Tejesh	Kendale	Kendale	Kendale				
27	khandagale shruti	Khandagale	Khandagale	Khandagale				
28								
29	Pranav Nandkumar khat	Pranav	Pranav	Pranav				
30	Shreyash Karale	Shreyash	Shreyash	Shreyash				
31	sushil sunil madale	Sushil	Sushil	Sushil				
32	Keval Maleodiya	Keval	Keval	Keval				
33	Rutuja R. Makale	Rutuja	Rutuja	Rutuja				
34	Maze Vedant Santosh	Maze	Maze	Maze				
35	Prexana Pr. Munse	Prexana	Prexana	Prexana				
36	Saiyat Deepak Naik	Saiyat	Saiyat	Saiyat				
37	Saksham Sunil Nalwade	Saksham	Saksham	Saksham				
38								
39	Adhya Ravaji Patil	Adhya	Adhya	Adhya				
40	Deepali Manohar Patil	Deepali	Deepali	Deepali				
41	Gururath Y. Patil	Gururath	Gururath	Gururath				
42								
43	Pratik N. Patil	Pratik	Pratik	Pratik				

44	Pratthmesh .T. Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
45	Rohit V. Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
46	Samruddhi D. Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
47	Shravani S. Patil	<del>Shravani</del>	<del>Shravani</del>	<del>Shravani</del>		
48	Shumbham .R. Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
49	Tanaya .V. Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
50	Nikhil R. Patil	<del>Patil</del>				
51	Abhishek N. Salunke	<del>Salunke</del>	<del>Salunke</del>	<del>Salunke</del>		
52	Saurabh .S. Shillabe	<del>Shillabe</del>	<del>Shillabe</del>	<del>Shillabe</del>		
53	Ashish Hemant Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>		
54	Gaurav Anun Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>		
55	Harshwardhan .V. Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>		
56	Pranav .t. Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>		
57	Shiven .S. Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>		
58	Shrutika .S. Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>		
59	sneha N. Suryawanshi	<del>Suryawanshi</del>		<del>Suryawanshi</del>		
60						
61	Pankaj Santosh Tarlekar	<del>Tarlekar</del>	<del>Tarlekar</del>	<del>Tarlekar</del>		
62	Jejas Tarre	<del>Tarre</del>	<del>Tarre</del>	<del>Tarre</del>		
63	Vishal Gopal thakkar	<del>Thakkar</del>				
64	Uiraj Dayanand thorat	<del>Thorat</del>	<del>Thorat</del>	<del>Thorat</del>		
65						
66	Rohit Amasiddha Vhanthane	<del>Vhanthane</del>	<del>Vhanthane</del>	<del>Vhanthane</del>		
67	Pratik sanjay Yadav	<del>Yadav</del>	<del>Yadav</del>	<del>Yadav</del>		
68	Sonam Prabhakar Zambhe	<del>Zambhe</del>	<del>Zambhe</del>	<del>Zambhe</del>		
69	Avinash Tanaji Vhanalkat	<del>Vhanalkat</del>	<del>Vhanalkat</del>	<del>Vhanalkat</del>		
70						
71	. Pawar Akash vijay					
72	. Shraadh kul karnu					
73	Roshni Karan					
74						
75						
76						
77	Dhanraj A. Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
78						
79	Sejal S. Bhosale	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>		
80	Anuja A. Pawar	<del>Pawar</del>	<del>Pawar</del>	<del>Pawar</del>		
81	Shravani Sachin Desai	<del>Desai</del>	<del>Desai</del>	<del>Desai</del>		
82						
83	Abhishek .D. Kalekar	<del>Kalekar</del>	<del>Kalekar</del>	<del>Kalekar</del>		
84	Shrinivas S. Nikant	<del>Nikant</del>	<del>Nikant</del>	<del>Nikant</del>		
85	Vaishnavi Kharbude	<del>Kharbude</del>	<del>Kharbude</del>	<del>Kharbude</del>		
86	Saurabh .Nikhilraj	<del>Nikhilraj</del>	<del>Nikhilraj</del>	<del>Nikhilraj</del>		
87						
88						
89						
90						

Sign of the Staff



# COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT : E & TC

## THEORY ATTENDANCE SHEET

Class :	Shift :	Div : <u>D</u>	Subject :
Year :	Name of the Faculty : <u>PLC &amp; SCADA</u>		
Sem :	From :		To :
Roll No.	Name	Date :	Date :
1	Sury Siddheshwar Abdar	27-2-19	28-2-19
2	Nishant N. Arada	1-3-19	2-3-19
3	Attae Swalaha M. Azeif	3-3-19	4-3-19
4	Belekar Akshata R.		
5	Bhogam Omkar D		
6	Bhojkar Namrata Kumari		
7	Bhosale Akshay J		
8	Bhonsale Aishwarya Babu		
9	Bhosale Aishwarya Bababhai		
10	Chavan Akash Sanjiv		
11	Chekar Akshay Bhimrao		
12	Dawase Anuja Ashok		
13	Desai Neal Jitendra		
14	Dhonukshe Heba Ramesh		
15	DONDE SURAJ NURUTTI		
16	Dongale Prasad Prayashi		
17	Gaikwad Aditya Santosh		
18	Posnima Vijay Gavali		
19	Ghansalis Olinta Sayat		
20	Ingoole Nupur Abhimondar		
21	Jadhav Akshay Sadan and		
22	Jadhav Ankita Bhausaheb		
23	Jadhav Omkar Shrikant		
24	Jadhav Priya Vijay		
25	Jadhav Janket M.		
26			
27	Jamdar-Velhal Surabhis		
28	Gavade Piyanka Vitthalrao		
29	Ashish P. Kumbale		
30	Kumbale Piyanka Namdev		
31	Karande Amruta A.		



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

## **CERTIFICATE**

### **Add-on Course "PLC and SCADA Programming"**

This is to certify that Mr. / Ms. \_\_\_\_\_  
has successfully completed **Add-on Course "PLC and SCADA Programming"** on 27th  
Feb.2019 to 4th March 2019 organized by the Department of **Electronics & Telecommunication  
Engineering of Bharati Vidyapeeth's College of Engineering, Kolhapur.**

**Mrs.A.H.Tirmare**  
Coordinator

**Dr.K.R.Desai**  
HOD(ETC)

**Dr.V.R.Ghorpade**  
Principal