



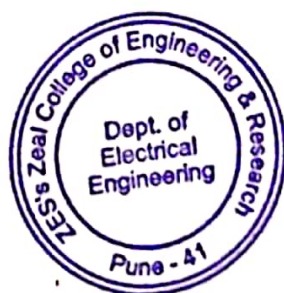
Zeal Education Society's
Zeal College of Engineering and Research, Pune-41
Department of Electrical Engineering

Summery Sheet of Value Addition Program

Student's Development Program

Following student development activities were conducted at Dept. of Electrical Engineering in A. Y. 2017-18

Sr. No.	Title of Course / Workshop	Academic Year	Duration	Beneficiary	Types of Skills improved
1	"Hands on Training on PLC & SCADA"	2017-18	16 th Aug to 21 st Aug 2017 (BE-A) & 28 th Aug to 2 nd Sept 2017 (BE-B)	BE Electrical Students(100)	Students will learn block diagram of PLC with its components, basics of PLC programming, ladder diagram fundamentals, & design of systems using PLC.



Zeal Education Society's
Zeal College of Engineering and Research, Narhe, Pune



Department of Electrical Engineering
A
Report on
Hands-on session

“Automation - PLC SCADA”

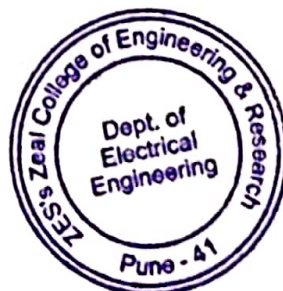
Organized by,
Department of Electrical Engineering, ZCOER, Pune

Resource Person : Mr. Jotindar Nath Chaudhari
MPTA Education Ltd, Pune

About the Hands-on session: This hands-on session is intended for B.E. students for their skill development in automation field. It doesn't matter how much natural talent an engineer has, he can still improve in a skill by practicing that is one of the advantage of hands on training. Training programs are more beneficial when they provide many opportunities for practicing skills. This hands-on session covers basic concepts, Design aspects, material selection and market survey and its assembly, testing & its applications in various areas.

Objective of Hands-on session : **Hands on Practical on Relay Logic And Other Hardware's (3 Days)**

- NO/NC Concept
- Different Buttons & Switches
- Multi-meter
- Relay Based Designs
- Latching Interlocking
- Mutual Interlocking
- Timer Based Designs



ZES ZCOER
Department of Electrical Engineering

**Allen Bradley PLC
(1 ½ Days)**

- Flasher Circuit
- Traffic Light Control Circuit
- Contactor
- Counter Based Designs

Hardware-

Allen Bradley Micrologix / SLC Series

Software: RS Logix, RS Linx & etc.

- Hardware detailing & Input/output Addressing
- General & technical specifications of PLC
- PLC cabling
- Programming steps
- Ladder Diagram Programming,
- Driver configuration
- Basic programming functions
- Timer & Counter
- Compare, Move, logical instructions
- Compute/Math Instructions, Timers & counters, design problems using these instructions

Advance Instructions

- COP, FLL
- SQL, SQO
- FIFO, LIFO
- SCP
- Program Control instructions

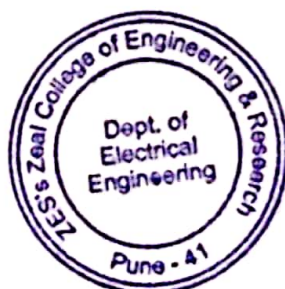
SCADA concepts, necessity, applications, features & latest trends, communication Protocols.

Push button entry, switch entry, Lamp entry, timer pre-set value & elapse time entry in picture file & its animations.

- Dynamic Animation
- Script
- Trends – Real Time & Historical
- Alarm
- Security
- Excel Linking
- PLC Communication

Practice on SCADA

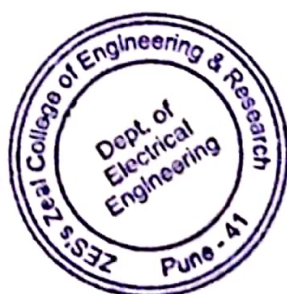
The Department of Electrical Engineering of ZES, ZCOER has organized a hands-on training on "PLC SCADA", dated on 16th and 21th August, 2017 for BE-A & 28th Aug. to 2nd Sept, 2017 for BE-B students.



ZES ZCOER
Department of Electrical Engineering

Date	Timings	BE-A Class
16 th Aug 2017	09:00 to 3:30	52
17 th Aug 2017	09:00 to 3:30	57
18 th Aug 2017	09:00 to 3:30	53
19 th Aug 2017	09:00 to 3:30	57
20 th Aug 2017	09:00 to 3:30	49
21 st Aug 2017	09:00 to 3:30	51
Date	Timings	BE-B Class
28 th Aug 2017	09:00 to 3:30	52
29 th Aug 2017	09:00 to 3:30	52
30 th Aug 2017	09:00 to 3:30	50
31 st Aug 2017	09:00 to 3:30	52
1 st Sept 2017	09:00 to 3:30	51
2 nd Sept 2017	09:00 to 3:30	52

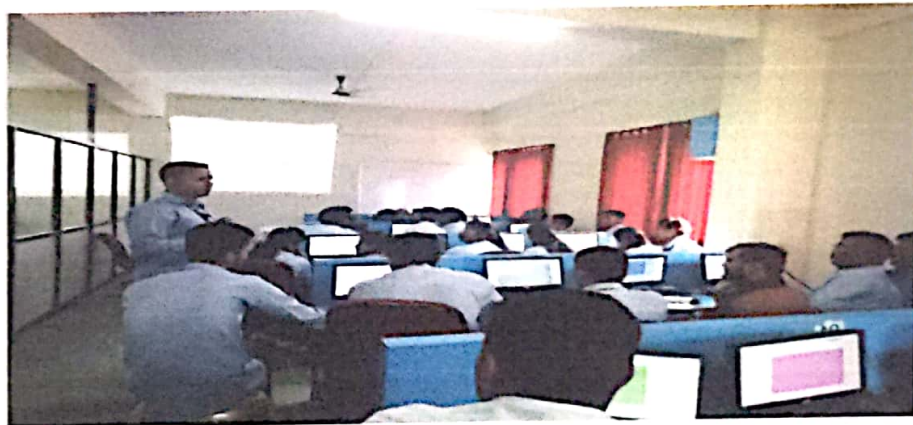
The session was inaugurated by Dr.M.G. Unde Head of Department, Electrical Engineering. Mrs. Anupama S. Patil gave introduction regarding the overview of content to be covered. First three days of the workshop covered Relay Logic & Hardware. Students divided in group of six and completed the task given like DOL starter, Timer operation, traffic light control etc. Next first and half days covered Allen Bradely PLC and advanced instructions of PLC. Last first and half days covered SCADA Wonderware Intouch 9.5, interfacing of PLC & SCADA. Shubham Jain & Moresh Narkhede from B.E.(A) & Sarvrsh Tambe from B.E.(B) gave the feedback from students.



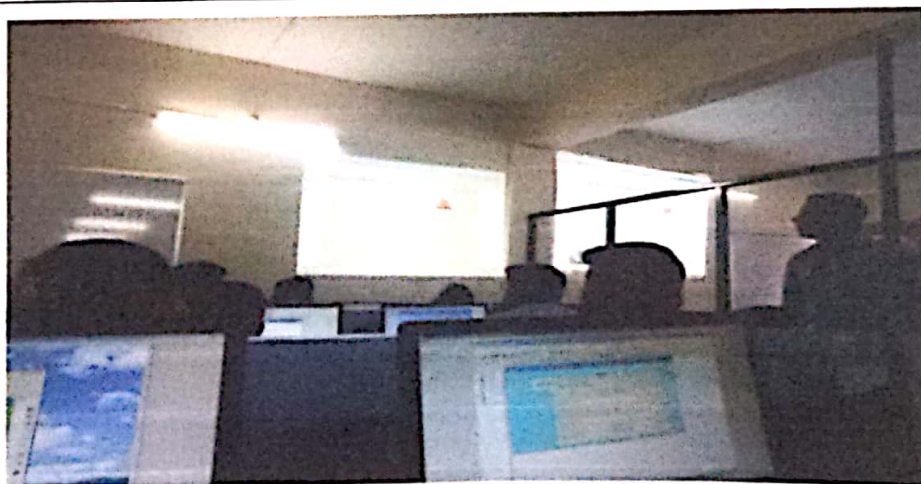
ZES ZCOER
Department of Electrical Engineering



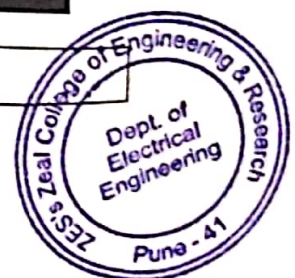
Handson Session- Relay Logic - by Mr. Jotindar Nath Chaudhari- 17/08/2017



Handson Session- PLC - by Mr. Jotindar Nath Chaudhari- 31/08/2017



Handson Session- SCADA - by Mr. Jotindar Nath Chaudhari- 2/09/2017



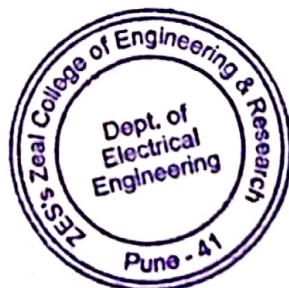
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Department of Electrical Engineering



Inaugration Ceremony : Address by Dr. M.G. Unde - 16/08/2017



Inaugration Ceremony : Sarswati Poojan by Mr. Jotindar Nath Chaudhari - 16/08/2017



ZES's ZCOER, Pune-41
Department of Electrical Engineering

Date: 31/07/2017

NOTICE

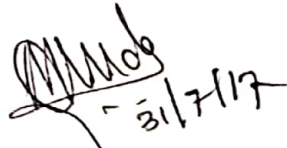
All Final year Electrical students are hereby informed that we are organizing Training Program on PLC and SCADA Application. This will be one week training program during **16 Aug. to 21 Aug.** for BE A Division & **28 Aug. to 02 Sept.** for BE B Division. Course will be conducted by MPTA Education Pune. Student will get certificate for participation in this program. The fee for this training is (Rs 1000 only) will be given by student only.

Electrical Department has been arranging this training program for last three years. This training is really beneficial to students.

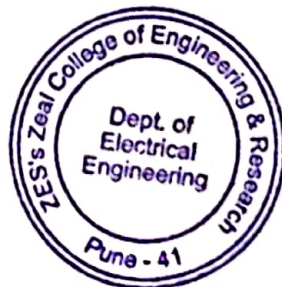
Note: The training program is compulsory to all students.


Prof. Anupama Patil & Prof. Kunal Joshi

Assistant Professor
Subject In charge


Dr. M. G. Unde

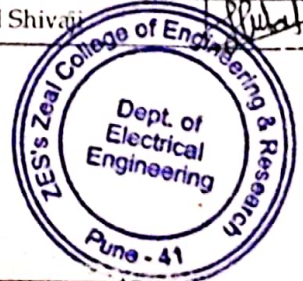
HoD



ZES's Zeal College of Engineering, Narhe, Pune
 Department of Electrical Engineering
 B. E. Electrical - A DIV (SEM-I A.Y. 17-18)

PLC SCADA TRAINING BY MPTA ,Pune (From 16/8/2017 to 21/08/2017)

Roll No.	Name of Student	16-8-17		17/8/17		18-8-17	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
B61001	Adsul Kshitij Sopan	Ktj	Ktj	Ktj	Ktj	Ktj	Ktj
B61003	Bharane Nanaso Kalyan	Bharane	Bharane	Bharane	Bharane	Bharane	Bharane
B61004	Bhoskar Mayur	Bhoskar	Bhoskar	Bhoskar	Bhoskar		
B61005	Birajdar Bhimna Hulappa	Birajdar	Birajdar	Birajdar	Birajdar	Birajdar	Birajdar
B61006	Chaudhari Swapnil M	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari
B61007	Dalvi Rutuja Vilas	Dalvi	Dalvi	Dalvi	Dalvi	Dalvi	Dalvi
B61008	Dapase Anvesh Nana	Dapase	Dapase	Dapase	Dapase	Dapase	Dapase
B61009	Deokar Sayali Satish	Deokar	Deokar	Deokar	Deokar	Deokar	Deokar
B61010	Dumne Aishwarya Giriram	Dumne	Dumne	Dumne	Dumne	Dumne	Dumne
B61011	Gayakwad Prashik Anil	Gayakwad	Gayakwad	Gayakwad	Gayakwad	Gayakwad	Gayakwad
B61012	Ghadage Prashant	Ghadage	Ghadage	Ghadage	Ghadage	Ghadage	Ghadage
B61013	Ghugare Omkar Bajarang	Ghugare	Ghugare	Ghugare	Ghugare	Ghugare	Ghugare
B61014	Gote Sidhaganesh Manmath	Gote	Gote	Gote	Gote	Gote	Gote
B61015	Gund Dhanashree Balasaheb	Gund	Gund	Gund	Gund	Gund	Gund
B61016	Henrao Shubham Avinash	Henrao	Shubham	Henrao	Shubham	Henrao	Shubham
B61017	Hujband Mayur Jagdish	mayur	mayur	mayur	MAYUR	MAYUR	MAYUR
B61018	Jadhav Dattatray Mansing	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
B61019	Jadhav Gorakshnath	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
B61020	Jain Shubham Parasmalji	Jain	Jain	Jain	Jain	Jain	Jain
B61021	Kadam Pratik Dilip	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
B61022	Kaldante Sumeet P	Kaldante	Kaldante	Kaldante	Kaldante	Kaldante	Kaldante
B61023	Kale Prasad Pamesh	Kale	Kale	Kale	Kale	Kale	Kale
B61024	Kanaskar Mayur H						
B61025	Khade Sharad Sampat	Khade	Khade	Khade	Khade	Khade	Khade
B61026	Kumbhar Kiran Shivaji	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
B61027	Kumthekar Shweta Surendra	Kumthekar	Kumthekar	Kumthekar	Kumthekar	Kumthekar	Kumthekar
B61028	Lad Rohan Dilip	Lad	Lad	Lad	Lad	Lad	Lad
B61030	Mudgade Pavan Sudhir	Mudgade	Mudgade	Mudgade	Mudgade	Mudgade	Mudgade
B61031	Nanaware Monika Balasaheb	Nanaware	Nanaware	Nanaware	Nanaware	Nanaware	Nanaware
B61032	Narkhede Moresh S	Narkhede	Narkhede	Narkhede	Narkhede	Narkhede	Narkhede
B61033	Nawale Pradyumna Kailas						
B61034	Panpatte Nebha Diliprao	Panpatte	Panpatte	Panpatte	Panpatte	Panpatte	Panpatte
B61037	Patole Kshitija Sunil						
B61038	Pawar Sheetal Shivaji	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar



Roll No.	Name of Student	16-8-17		17-8-17		18-8-17	
		Score	Rank	Score	Rank	Score	Rank
B61039	Powar Shubham Sambhaji	60	10	60	10	60	10
B61040	Raut Shubhangi Shivaji	60	10	60	10	60	10
B61041	Sarode Shubhada Vasudeo	60	10	60	10	60	10
B61042	Shaikh Shadab Ansar	60	10	60	10	60	10
B61043	Shendge Amruta Sopan	60	10	60	10	60	10
B61044	Shinde Vaibhav Kisan			60	10	60	10
B61045	Shirke Ashwini Vilas	P	Shirke	Shirke	Shirke	Shirke	Shirke
B61046	Solanki Bhushan Anil						
B61047	Telang Ankita Anil	60	10	60	10	60	10
B61048	Todmal Tushar Balasaheb	60	10	60	10	60	10
B61050	Waghmode Sangram Subhash	60	10	60	10	60	10
B61051	Atul Trivedi						
B61052	Dagadkhair Gopal						
B61053	Hirve Priyanka	60	10	60	10	60	10
B61055	Patil Kunal						
B61056	Sam Jacob	60	10	60	10	60	10
B61058	Dake Snehal Suryakant	60	10	60	10	60	10
B61059	Kolate Akshay Balasaheb	60	10	60	10	60	10
B61061	Gaikwad Siddharth	60	10	60	10	60	10
B61062	Karanjkar Nayan	60	10	60	10	60	10
B61063	Kachare Swapnil	60	10	60	10	60	10
B61064	Mane Mahesh	60	10	60	10	60	10
B61065	More Audumbar	60	10	60	10	60	10
B61066	Chimte Harish			60	10	60	10
B61067	Kanherkar Avinash Sunil			60	10	60	10
B61068	Kulkarni Aniket Arvind			60	10	60	10
B61069	Kore Sandeep	60	10	60	10	60	10

B62047 Vishal P. T. 60 10 60 10 60 10 60 10

B62018 Mahesh Hattiroje 60 10 60 10 60 10 60 10

Total 52 52 57 53



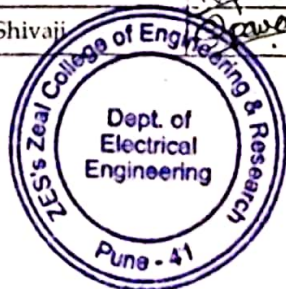
Mande

HOD
Dept. of Electrical Engineering
ZES's Zeal College
of Engineering & Research,
Narhe, Pune - 411 041.

ZES's Zeal College of Engineering, Narhe, Pune
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PLC SCADA TRAINING BY MPTA, Pune (From 16/8/2017 to 21/08/2017)

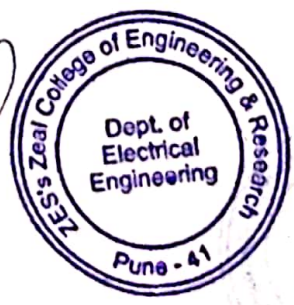
Roll No.	Name of Student	19 th Aug		20/8/17		21/8/17	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
B61001	Adsul Kshitij Sopan	KH	KH	KH	KH	KH	KH
B61003	Bhargane Nanaso Kalyan	Bhargane	Bhargane	Bhargane	Bhargane	Bhargane	Bhargane
B61004	Bhoskar Mayur	Bhoskar	Bhoskar	Bhoskar	Bhoskar	Bhoskar	Bhoskar
B61005	Birajdar Bhimnna Hulappa	Birajdar	Birajdar	Birajdar	Birajdar	Birajdar	Birajdar
B61006	Chaudhari Swapnil M	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari	Chaudhari
B61007	Dalvi Rutuja Vilas	Dalvi	Dalvi	Dalvi	Dalvi	Dalvi	Dalvi
B61008	Dapase Anvesh Nana	Dapase	Dapase	Dapase	Dapase	Dapase	Dapase
B61009	Deokar Sayali Satish	Deokar	Deokar	Deokar	Deokar	Deokar	Deokar
B61010	Dumne Aishwarya Gifiram	Dumne	Dumne	Dumne	Dumne	Dumne	Dumne
B61011	Gayakwad Prashik Anil	Gayakwad	Gayakwad	Gayakwad	Gayakwad	Gayakwad	Gayakwad
B61012	Ghadage Prashant	Ghadage	Ghadage	Ghadage	Ghadage	Ghadage	Ghadage
B61013	Ghugare Omkar Bajarang	Ghugare	Ghugare	Ghugare	Ghugare	Ghugare	Ghugare
B61014	Gote Sidhaganesh Manmath	Gote	Gote	Gote	Gote	Gote	Gote
B61015	Gurud Dhanashree Balasaheb	Gurud	Gurud	Gurud	Gurud	Gurud	Gurud
B61016	Honrao Shubham Avinash	Honrao	Honrao	Honrao	Honrao	Honrao	Honrao
B61017	Hulkarn Mayur Jagdish	Hulkarn	Hulkarn	Hulkarn	Hulkarn	Hulkarn	Hulkarn
B61018	Jadhav Mantray Mansing	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
B61019	Jadhav Gorakshnath	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
B61020	Jain Shubham Parasmalji	Jain	Jain	Jain	Jain	Jain	Jain
B61021	Kadam Pratik Dilip	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
B61022	Kaldante Sumeet P	Kaldante	Kaldante	Kaldante	Kaldante	Kaldante	Kaldante
B61023	Kale Prasad Ramesh	Kale	Kale	Kale	Kale	Kale	Kale
B61024	Kanaskar Mayur H	Kanaskar	Kanaskar	Kanaskar	Kanaskar	Kanaskar	Kanaskar
B61025	Khade Sharad Sampat	Khade	Khade	Khade	Khade	Khade	Khade
B61026	Kumbhar Kiran Shivaji	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
B61027	Kumthekar Shweta Surendra	Kumthekar	Kumthekar	Kumthekar	Kumthekar	Kumthekar	Kumthekar
B61028	Lad Rohan Dilip	Lad	Lad	Lad	Lad	Lad	Lad
B61030	Mudgale Pavan Sudhir	Mudgale	Mudgale	Mudgale	Mudgale	Mudgale	Mudgale
B61031	Nanaware Monika Balasaheb	Nanaware	Nanaware	Nanaware	Nanaware	Nanaware	Nanaware
B61032	Narkhede Moreshe S	Narkhede	Narkhede	Narkhede	Narkhede	Narkhede	Narkhede
B61033	Nawale Pralidnya Kailas	Nawale	Nawale	Nawale	Nawale	Nawale	Nawale
B61034	Panpatte Neha Diliprao	Panpatte	Panpatte	Panpatte	Panpatte	Panpatte	Panpatte
B61037	Patole Kshitija Sunil	Patole	Patole	Patole	Patole	Patole	Patole
B61038	Pawar Sheetal Shivaji	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar



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B61039	Powar Shubham Sambhaji	Powar	Powar	Powar
B61040	Raut Shubhangi Shivaji	Raut	Raut	Raut
B61041	Sarode Shubhada Vasudeo	Sarode	Sarode	Sarode
B61042	Shaikh Shadab Ansar	Shaikh	Shaikh	Shaikh
B61043	Shendge Amruta Sopan	Shendge	Shendge	Shendge
B61044	Shinde Vaibhav Kisan	Shinde	Shinde	Shinde
B61045	Shirke Ashwini Vilas	Shirke	Shirke	Shirke
B61046	Solanki Bhushan Anil			
B61047	Telang Ankita Anil	Telang	Telang	Telang
B61048	Todmal Tushar Balasaheb	Todmal	Todmal	Todmal
B61050	Waghmode Sangram Subhash	Waghmode	Waghmode	Waghmode
B61051	Atul Trivedi			
B61052	Dagadkhair Gopal			
B61053	Hirve Priyanka	Hirve	Hirve	Hirve
B61055	Patil Kunal	Patil	Patil	Patil
B61056	Sam jacob			
B61058	Dake Snehal Suryakant	Dake	Dake	Dake
B61059	Kolate Akshay Balasaheb	Kolate	Kolate	Kolate
B61061	Gaikwad Siddharth	Gaikwad	Gaikwad	Gaikwad
B61062	Karanjkar Nayan	Karanjkar	Karanjkar	Karanjkar
B61063	Kachare Swapnil	Kachare	Kachare	Kachare
B61064	Mane Mahesh	Mane	Mane	Mane
B61065	More Audumbar	More	More	More
B61066	Chimte Harish	Chimte	Chimte	Chimte
B61067	Kanherkar Avinash Sunil	Kanherkar	Kanherkar	Kanherkar
B61068	Kulkarni Aniket Arvind	Kulkarni	Kulkarni	Kulkarni
B61069	Kore Sandeep			

B62018 Mahesh Hattirage. ~~5/6~~ ~~5/6~~ ~~5/6~~ ~~5/6~~ ~~5/6~~ ~~5/6~~
 B62048 Vishal Tadavale. ~~5/6~~ ~~5/6~~ ~~5/6~~ ~~5/6~~ ~~5/6~~ ~~5/6~~
 Total 5/6 | 49 | 51

(K.K. Joshi)

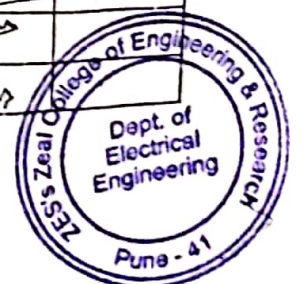


(Mande)
 HOD
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 of Engineering & Research
 Na. Arch. 11.

ZES's Zeal College of Engineering, Narhe, Pune
 Department of Electrical Engineering
 B. E. Electrical - B DIV (SEM-I A.Y. 17-18)

PLC SCADA TRAINING BY MPTA ,Pune (From 28/8/2017 to 02/09/2017)

Roll No.	Name of Student	28/08/17		29/08/17		31/08/17	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
B62001	Balkhande Ajay Vijay	Balkhande	Balkhande	Balkhande	Balkhande	Balkhande	Balkhande
B62002	Bansode Kishori Mukund	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode
B62003	Barkale Sagar Dilip 70			YD			
B62004	Baviskar Dipak Pramod	Baviskar	Baviskar	Baviskar	Baviskar	Baviskar	Baviskar
B62005	Bhalerao Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi
B62006	Bhilare Saurabh Dattatray	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh
B62007	Bhoite Sudarshan Sanjay	Bhoite	Bhoite	Bhoite	Bhoite	Bhoite	Bhoite
B62008	Chavan Ajay Sanjay	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
B62009	Chinke Shubham	Chinke	Chinke	Chinke	Chinke	Chinke	Chinke
B62010	Darekar Prashant Navnath	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant
B62011	Deshmane Ketki Suryakant	Deshmane	Deshmane	Deshmane	Deshmane	Deshmane	Deshmane
B62012	Dombale Pratik Ashok	Dombale	Dombale	Dombale	Dombale	Dombale	Dombale
B62013	Dongare Amol Eknathrao	Amol	Amol	Amol	Amol	Amol	Amol
B62014	Ekal Roshan Krishnat	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan
B62015	Gangnar Govind Vaijnath	Govind	Govind	Govind	Govind	Govind	Govind
B62016	Gawande Swati Pralhad	Swati	Swati	Swati	Swati	Swati	Swati
B62017	Guregaonkar Sanket Manoj	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
B62018	Hattirage Mahesh M	1st batch		1st batch			
B62019	Hukkire Prasanna Tatyaso	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna
B62020	Inamdar Imran Gulab	Imran	Imran	Imran	Imran	Imran	Imran
B62021	Ingale Kanchan Ramesh	Kanchan	Kanchan	Kanchan	Kanchan	Kanchan	Kanchan
B62022	Joshi Shrirang Rajendra	Shrirang	Shrirang	Shrirang	Shrirang	Shrirang	Shrirang
B62023	Kadam Prashant Sarjerao	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant
B62024	Kamble Balaji Kundlik	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji
B62025	Kande Prashant Bhagwat	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant
B62026	Kharade Sonali Vitthal	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali
B62027	Khomane Dipak Krushna	Dipak	Dipak	Dipak	Dipak	Dipak	Dipak
B62028	Kolpe Supriya Dinkar	Supriya	Supriya	Supriya	Supriya	Supriya	Supriya
B62029	Kumbhar Sonal Ramdas	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal
B62030	Lokare Sushant Shankar	Sushant	Sushant	Sushant	Sushant	Sushant	Sushant
B62031	Mathe Sanket Ashok 70			YD			
B62032	Mugale Saraswati Jagdish	Saraswati	Saraswati	Saraswati	Saraswati	Saraswati	Saraswati
B62033	Munghate Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
B62034	Nangare Aishwarya Arun	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya



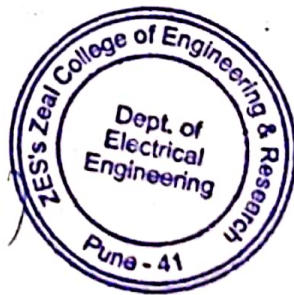
Roll No.	Name of Student	28/08/17	29/08/17	31/08/17
B62035	Patil Harshal Liladhar	Harshal	Harshal	Harshal
B62036	Pawar Siddheshwar	Siddheshwar	Siddheshwar	Siddheshwar
B62037	Raut Mali Amol Balasaheb	Amol	Amol	Amol
B62038	Sanap Vishal Mahadeo YD		YD	
B62039	Shahapurkar Bhakti	Bhakti	Bhakti	Bhakti
B62040	Shinde Onkar Pandurang	Onkar	Onkar	Onkar
B62041	Shinde Vishal Ashok	Vishal	Vishal	Vishal
B62042	Shisode Snehal Dipak	Snehal	Snehal	Snehal
B62043	Solanke Mahesh Kishanrao	Mahesh	Mahesh	Mahesh
B62044	Sonar Akshay Anil	Akshay	Akshay	Akshay
B62045	Sonar Aniket Ajay	Aniket	Aniket	Aniket
B62046	Suryawanshi Akshay	Akshay	Akshay	Akshay
B62047	Suryawanshi Lavha	Lavha	Lavha	Lavha
B62048	Tadavalekar Vishal 1st batch.			
B62049	Tambe Sarvesh Sanjay	Sarvesh	Sarvesh	Sarvesh
B62050	Tayade Harshal Bhimrao	Harshal	Harshal	Harshal
B62051	Tupsoundar Kiran Prakash		YD	
B62052	Uphade Balaji Ashok	Balaji	Balaji	Balaji
B62053	Vitkar Rohan Rajendra	Rohan	Rohan	Rohan
B62054	Wagh Bharat Ganesh YD		YD	
B62055	Waghmare Sandip Khandu		YD	
B62056	Warkhade Vijay Jayvant	Vijay	Vijay	Vijay
B62057	Lahane Umang Madhukar	Umang	Umang	Umang
B62058	Patki Sagar YD		YD	
B62059	Navale Shubham	Shubham	Shubham	Shubham
B62060	Chaudhari Sanket	Sanket	Sanket	Sanket
B62061	Dipte Aarti Anil	Aarti	Aarti	Aarti
B62062	Sonawane Kishor Prakash	Kishor	Kishor	Kishor

B61037 Patole Kshitiq Sunil Kshitiq Kshitiq Kshitiq Kshitiq

Total -

54 54 54 54 54

(K. K. Joshi)



(M. M. M.)

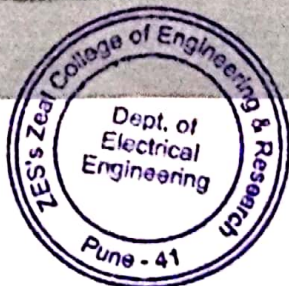
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ZES's Zeal College
of Engineering & Research
Narhe, Pune - 412005



ZES's Zeal College of Engineering, Narhe, Pune
 Department of Electrical Engineering
 B. E. Electrical - B.E. (SEM I, VY. 17-18)

PLC SCADA TRAINING BY MPL - Pune (From 27/8/2017 to 02/09/2017)

Roll No.	Name of Student	01/09	01/09	02/09	02/09	03/09	03/09
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
B62001	Balkhande May Vinay	Balkhande	Balkhande	Balkhande	Balkhande	Balkhande	Balkhande
B62002	Bansode Kishan Mukund	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode
B62003	Daviskar Dipak Prantod	Daviskar	Daviskar	Daviskar	Daviskar	Daviskar	Daviskar
B62004	Bhalerao Pallavi	Pallavi B	Pallavi B	Pallavi B	Pallavi B	Pallavi B	Pallavi B
B62005	Bhalerao Saurabh Dattatray	Saurabh B	Saurabh B	Saurabh B	Saurabh B	Saurabh B	Saurabh B
B62006	Bhatnagar Sudashin Souay	Bhatnagar	Bhatnagar	Bhatnagar	Bhatnagar	Bhatnagar	Bhatnagar
B62007	Chavan Jay Sanjay	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
B62008	Chimke Shubham	Chimke	Chimke	Chimke	Chimke	Chimke	Chimke
B62009	Dankar Prashant Naynath	Dankar	Dankar	Dankar	Dankar	Dankar	Dankar
B62010	Deshmukhe Ketki Suryakant	Deshmukhe	Deshmukhe	Deshmukhe	Deshmukhe	Deshmukhe	Deshmukhe
B62011	Dombale Pratik Ashok	Dombale	Dombale	Dombale	Dombale	Dombale	Dombale
B62012	Dongare Anil Eknathrao	Dongare	Dongare	Dongare	Dongare	Dongare	Dongare
B62013	Dikal Roshan Krishnat	Dikal	Dikal	Dikal	Dikal	Dikal	Dikal
B62014	Gangwar Govind Vajjnath	Gangwar	Gangwar	Gangwar	Gangwar	Gangwar	Gangwar
B62015	Gawande Swati Pralhad	Gawande	Gawande	Gawande	Gawande	Gawande	Gawande
B62016	Gorepantkar Sanket Manoj	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
B62017	Gupta Anshu Mohan Mohindra						
B62018	Hukkire Prasanna Tatyaso	Hukkire	Hukkire	Hukkire	Hukkire	Hukkire	Hukkire
B62019	Inamdar Imran Gulab	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar
B62020	Ingle Anant Ramesh	Ingle	Ingle	Ingle	Ingle	Ingle	Ingle
B62021	Joshi Shrinang Rajendra	Joshi	Joshi	Joshi	Joshi	Joshi	Joshi
B62022	Kadam Prashant Sanjaya	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
B62023	Kamble Balaji Kundlik	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
B62024	Kande Prashant Bhagwat	Kande	Kande	Kande	Kande	Kande	Kande
B62025	Khande Sonali Vitthal	Khande	Khande	Khande	Khande	Khande	Khande
B62026	Khadim Dipak Krishna	Khadim	Khadim	Khadim	Khadim	Khadim	Khadim
B62027	Khadim Supriya Dinkar	Khadim	Khadim	Khadim	Khadim	Khadim	Khadim
B62028	Khandare Sonal Anandias	Khandare	Khandare	Khandare	Khandare	Khandare	Khandare
B62029	Lokare Sushant Shankar	Lokare	Lokare	Lokare	Lokare	Lokare	Lokare
B62030	Mogale Saraswati Jagdish	Mogale	Mogale	Mogale	Mogale	Mogale	Mogale
B62031	Munipate Abhinav	Munipate	Munipate	Munipate	Munipate	Munipate	Munipate
B62032	Nandore Ashwarya Arun	Nandore	Nandore	Nandore	Nandore	Nandore	Nandore
B62033	Patil Haresh Laladhar	Patil	Patil	Patil	Patil	Patil	Patil
B62034	Pawar Siddheshwar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar



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Roll No.	Name of Student	01/09/2017	02/09/17	03/09/17
B62037	Raut Mah Amol Balasaheb	Raut	Raut	Raut
B62039	Shahapurkar Bhakti	Shahapurkar	Shahapurkar	Shahapurkar
B62040	Shinde Omkar Pandurang	Shinde	Shinde	Shinde
B62041	Shinde Vishal Ashok	Shinde	Shinde	Shinde
B62042	Shisode Snehal Dipak	Shisode	Shisode	Shisode
B62043	Solanke Mahesh Kishanrao	Solanke	Solanke	Solanke
B62044	Sonar Akshay Anil	Sonar	Sonar	Sonar
B62045	Sonar Aniket Ajay	Sonar	Sonar	Sonar
B62046	Suryawanshi Akshay	Akshay	Akshay	Akshay
B62047	Suryawanshi Lavhu	Lavhu	Lavhu	Lavhu
B62048	Tadavalekar Vishal		X	X
B62049	Tambe Sarvesh Sanjay	Tambe	Tambe	Tambe
B62050	Tavade Harshal Bhimrao	Tavade	Tavade	Tavade
B62052	Upinade Balaji Ashok	Balaji	Balaji	Balaji
B62053	Vitkar Rohan Rajendra	Vitkar	Vitkar	Vitkar
B62055	Warkhade Vijay Jayvant	Warkhade	Warkhade	Warkhade
B62057	Lahane Umang Madhukar	Lahane	Lahane	Lahane
B62059	Navale Shubham	Navale	Navale	Navale
B62060	Chaudhari Sanket	Sanket		
B62061	Dipte Aarti Anil	Dipte	Dipte	Dipte
	Sonawane Kishor Prakash	Sonawane	Kishor	Kishor

B61037 Patole Kshitiya Sunil Kapatole
 Total 54 54 53 54 54 54

[Handwritten Signature]

HOD
 Dept. of Electrical Engineering
 ZES's Zeal College
 of Engineering & Research,
 Narhe, Pune - 411 041.



Department of Electrical Engineering
B. E. Electrical - B DIV (SEM-I A.Y. 17-18)

PLC SCADA TRAINING BY MPTA, Pune (From 28/8/2017 to 02/09/2017)

Roll No.	Name of Student	28/08/17		29/08/17		31/08/17	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
B62001	Balichande Ajay Vijay	Kalbhode	Kalbhode	Kalbhode	Kalbhode	Kalbhode	Kalbhode
B62002	Bansode Kishori Mukund	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode
B62003	Barkale Sagar Dilip 70			YD			
B62004	Baviskar Dipak Pramod	Baviskar	Baviskar	Baviskar	Baviskar	Baviskar	Baviskar
B62005	Bhalerao Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi
B62006	Bhulare Saurabh Dattatray	Bhulare	Bhulare	Bhulare	Bhulare	Bhulare	Bhulare
B62007	Bhote Sudarshan Sanjay	Bhote	Bhote	Bhote	Bhote	Bhote	Bhote
B62008	Chavan Ajay Sanjay	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
B62009	Chinke Shubham	Chinke	Chinke	Chinke	Chinke	Chinke	Chinke
B62010	Darekar Prashant Navnath	Darekar	Darekar	Darekar	Darekar	Darekar	Darekar
B62011	Deshmane Ketki Suryakant	Deshmane	Deshmane	Deshmane	Deshmane	Deshmane	Deshmane
B62012	Dombale Pratik Ashok	Dombale	Dombale	Dombale	Dombale	Dombale	Dombale
B62013	Dongare Amol Eknathrao	Dongare	Dongare	Dongare	Dongare	Dongare	Dongare
B62014	Ekal Roshan Krishnat	Ekal	Ekal	Ekal	Ekal	Ekal	Ekal
B62015	Gangnar Govind Vajjnath	Gangnar	Gangnar	Gangnar	Gangnar	Gangnar	Gangnar
B62016	Gawande Swati Pralhad	Gawande	Gawande	Gawande	Gawande	Gawande	Gawande
B62017	Guregaonkar Sanket Manoj	Guregaonkar	Guregaonkar	Guregaonkar	Guregaonkar	Guregaonkar	Guregaonkar
B62018	Hattirage Mahesh M 1st Batch.						
B62019	Hukkire Prasanna Tatyaso	Hukkire	Hukkire	Hukkire	Hukkire	Hukkire	Hukkire
B62020	Inamdar Imran Gulab	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar
B62021	Ingale Kanchan Ramesh	Ingale	Ingale	Ingale	Ingale	Ingale	Ingale
B62022	Joshi Shrirang Rajendra	Joshi	Joshi	Joshi	Joshi	Joshi	Joshi
B62023	Kadam Prashant Sarjerao	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
B62024	Kamble Balaji Kundlik	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
B62025	Kande Prashant Bhagwat	Kande	Kande	Kande	Kande	Kande	Kande
B62026	Kharade Sonali Vitthal	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade
B62027	Khomane Dipak Krushna	Khomane	Khomane	Khomane	Khomane	Khomane	Khomane
B62028	Kolpe Supriya Dinkar	Kolpe	Kolpe	Kolpe	Kolpe	Kolpe	Kolpe
B62029	Kumbhar Sonal Ramdas	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
B62030	Lokare Sushant Shankar	Lokare	Lokare	Lokare	Lokare	Lokare	Lokare
B62031	Mathe Sagar Dilip 70			YD			
B62032	Mugale Sagarwaji Jagdish	Mugale	Mugale	Mugale	Mugale	Mugale	Mugale
B62033	Munghate Abhishek	Munghate	Munghate	Munghate	Munghate	Munghate	Munghate
B62034	Nangare Aishwarya Arun	Nangare	Nangare	Nangare	Nangare	Nangare	Nangare



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Roll No.	Name of Student	28/08/17	29/08/17	31/08/17	01/09/17	02/09/17
B62035	Patil Harshal Liladhar	HR	HR	HR	HR	HR
B62036	Pawar Siddheshwar	SP	SP	SP	SP	SP
B62037	Raut Mah Amol Balasaheb	MR	MR	MR	MR	MR
B62038	Sanap Vishal Mahadeo YD			YD		
B62039	Shahapurkar Bhakti	SB	SB	SB	SB	SB
B62040	Shinde Onkar Pandurang	OS	OS	OS	OS	OS
B62041	Shinde Vishal Ashok	VS	VS	VS	VS	VS
B62042	Shisode Snehal Dipak	SD	SD	SD	SD	SD
B62043	Solanke Mahesh Kishanrao	SK	SK	SK	SK	SK
B62044	Sonar Akshay Anil	AS	AS	AS	AS	AS
B62045	Sonar Aniket Ajay	AS	AS	AS	AS	AS
B62046	Suryawanshi Akshay	AS	AS	AS	AS	AS
B62047	Suryawanshi Lavha	LS	LS	LS	LS	LS
B62048	Tadavalekar Vishal Ist Batch					
B62049	Tambe Sarvesh Sanjay	ST	ST	ST	ST	ST
B62050	Tayade Harshal Bhimrao	TH	TH	TH	TH	TH
B62051	Tupsoundar Kiran Prakash			YD		
B62052	Uphade Balaji Ashok	BU	BU	BU	BU	BU
B62053	Vitkar Rohan Rajendra	RV	RV	RV	RV	RV
B62054	Wagh Bharat Ganesh YD			YD		
B62055	Waghmare Sandip Ganadu			YD		
B62056	Warkhade Vijay Jayvant	WV	WV	WV	WV	WV
B62057	Lahane Umang Madhukar	LU	LU	LU	LU	LU
B62058	Patki Sagar YD			YD		
B62059	Navale Shubham	NS	NS	NS	NS	NS
B62060	Chaudhari Sanket	CS	CS	CS	CS	CS
B62061	Dipte Aarti Anil	DA	DA	DA	DA	DA
B62062	Sonawane Kishor Prakash	SK	SK	SK	SK	SK

B61037 Patole Kshirija Sunil
 Total 54 54 53 54 54 54



[Signature]
 HOD
 Dept. of Electrical Engineering
 ZES's Zeal College
 of Engineering & Research,
 Narhe, Pune - 411 041.

Assessment Procedure

The certificate is given to student only if they fulfill the criteria

- 1) Attendance is $\geq 75\%$
- 2) If they pass the test conducted by MPTA at the end of hands on session.



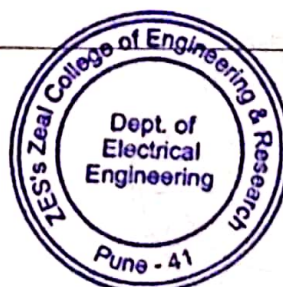
Rabi
(Coordinator)

MPTA Education

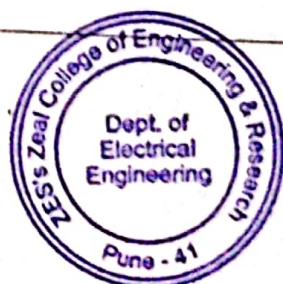
Test-Automation PLC SCADA (2/9/2017)

ZES's Zeal College of Engineering & Research, Pune

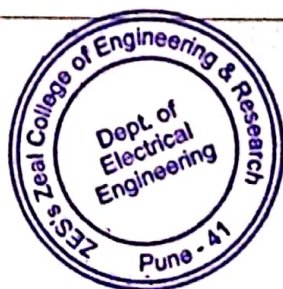
1	CPU operates on
A	5 V DC
B	5 V AC
C	110 V AC
D	110 V DC
2	The memory which is erasable by ultraviolet light is known as
A	RAM
B	EEPROM
C	UVROM
D	EPROM
3	The purpose of isolation block in I/O module is
A	it senses the presence or absence of an input signal
B	it converts the input signal for high or on to a DC level usable by the module's electronic circuit
C	it carries out electronic protection by electronically isolating the input module output from its input.
D	its electronic circuit produces an output via output logic, to be sensed by the PLC CPU
4	Micro size PLC can handle
A	8 I/Os
B	16 I/Os
C	32 I/Os
D	1024 I/Os
5	OV bit of UP counter is set when
A	The count reaches +32767
B	The count reaches -32768



C	The count reaches preset value
D	The count exceeds preset value
6	Normally closed contact in series with coil(Lamp) in a single rung is an example of
A	AND gate
B	OR gate
C	NOT gate
D	EXOR gate
7	If timer T4:0 setting is , Preset=50 and Timebase=0.1, then how much delay is generated by the timer in second
A	500
B	50
C	5
D	0.5
8	Reset instruction is needed in
A	On Delay Timer
B	Off Delay Timer
C	Retentive Timer
D	Latch
9	In simple closed loop system, the difference between set point and process variable is known as
A	Gain
B	Error
C	Feedback
D	bias
10	In properly tuned PID controller, which function improves the transient response of the system
A	Proportional
B	Integrative
C	Derivative



D	Summation
11	Which of the following is input analog device
A	Encoder
B	Limit switch
C	LVDT
D	Stepper motor
12	Which of the following is not an example of Electromechanical Transducer
A	LVDT
B	Strain guage
C	Resistive position sensor
D	Resistive Temperature Detector
13	Which element can be used to latch output in case of push button in a DOL starter program?
A	a reset instruction
B	a start push button
C	a pilot light
D	an internal output coil
14	Which principle is used in Variable speed AC motor drive?
A	Vary frequency
B	Vary applied voltage
C	Maintain ratio of applied voltage to frequency constant
D	Maintain applied voltage constant
15	Which of the following is not element of SCADA
A	Communication
B	Master Terminal Units
C	Micro Terminal Units (MTU)
D	RTUs/PLCs
16	Which of the following is output device for Human machine Interface(HMI)

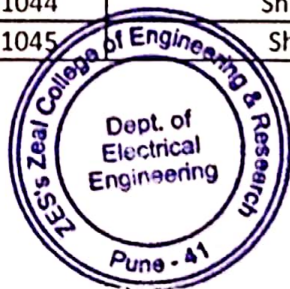


A	touch screens
B	joysticks
C	Toggle switches
D	Status Lights
17	A central host computer servers are called as
A	Remote Terminal Unit
B	Master Terminal Unit
C	Microcontroller
D	Digital Control System
18refers to the way a network is laid out, either physically or logically
A	Line configuration
B	Topology
C	Transmission mode
D	Modulation mode
19	Protocol is a set of that entities use to communicate information.
A	Formats
B	Procedure
C	Formats and procedure
D	Bandwidth
20	Which layer provides the services to user?
A	session layer
B	transport layer
C	application layer
D	network layer

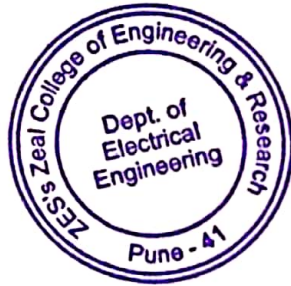


Result of PLC & SCADA (MPTA) course

Sr. No	Roll no.	Name of student	Marks obtained
1	B61001	Adsul Kshitij Sopan	15
2	B61002	Bhalerao Avinash Haridas	19
3	B61003	Bharane Nanaso Kalyan	12
4	B61004	Bhoskar Mayur	19
5	B61005	Birajdar Bhimna Hulappa	12
6	B61006	Chaudhari Swapnil M	12
7	B61007	Dalvi Rutuja Vilas	19
8	B61008	Dapase Anvesh Nana	15
9	B61009	Deokar Sayali Satish	18
10	B61010	Dumne Aishwarya Giriram	14
11	B61011	Gayakwad Prashik Anil	14
12	B61012	Ghadage Prashant Chandrakant	18
13	B61013	Ghugare Omkar Bajarang	17
14	B61014	Gote Sidhaganesh Manmath	15
15	B61015	Gund Dhanashree Balasaheb	16
16	B61016	Honrao Shubham Avinash	14
17	B61017	Hujband Mayur Jagdish	15
18	B61018	Jadhav Dattatray Mansing	10
19	B61019	Jadhav Gorakshnath	16
20	B61020	Jain Shubham Parasmalji	17
21	B61021	Kadam Pratik Dilip	12
22	B61022	Kaldante Sumeet Purushottam	11
23	B61023	Kale Prasad Ramesh	19
24	B61025	Khade Sharad Sampat	15
25	B61026	Kumbhar Kiran Shivaji	16
26	B61027	Kumthekar Shweta Surendra	9
27	B61028	Lad Rohan Dilip	18
28	B61029	Mergal Ashwini Kalyan	19
29	B61030	Mudgade Pavan Sudhir	18
30	B61031	Nanaware Monika Balasaheb	11
31	B61032	Narkhede Moresh Shrikrushna	12
32	B61034	Panpatte Neha Diliprao	14
33	B61035	Patil Akshay Bankatrao	13
34	B61036	Patil Aniket Sanjiv	18
35	B61038	Pawar Sheetal Shivaji	18
36	B61039	Powar Shubham Sambhaji	20
37	B61040	Raut Shubhangi Shivaji	17
38	B61041	Sarode Shubhada Vasudeo	17
39	B61042	Shaikh Shadab Ansar	20
40	B61043	Shendge Amruta Sopan	20
41	B61044	Shinde Vaibhav Kisan	19
42	B61045	Shirke Ashwini Vilas	10



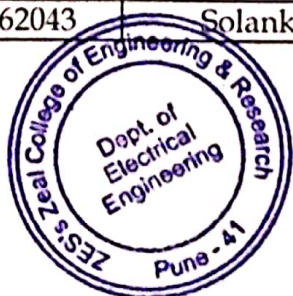
43	B61047	TelangAnkita Anil	16
44	B61048	Todmal Tushar Balasaheb	16
45	B61049	Umbare Shrishail Dattatray	19
46	B61050	Waghmode Sangram Subhash	11
47	B61053	Hirve Priyanka	14
48	B61054	Narute Sumit	17
49	B61055	Patil Kunal	15



Raj
(course coordinator)

Result of PLC & SCADA (MPTA) course

Sr. No	Roll no.	Name of student	Marks obtained
1	B62001	Balkhande Ajay Vijay	19
2	B62002	Bansode Kishori Mukund	17
3	B62003	Barkale Sagar Dilip	14
4	B62004	Baviskar Dipak Pramod	10
5	B62005	Bhalerao Pallavi Gangadharrao	9
6	B62006	Bhilare Saurabh Dattatray	20
7	B62007	Bhoite Sudarshan Sanjay	11
8	B62008	Chavan Ajay Sanjay	14
9	B62009	Chinke Shubham Rameshwar	19
10	B62010	Darekar Prashant Navnath	13
11	B62011	Deshmane Ketki Suryakant	13
12	B62012	Dombale Pratik Ashok	10
13	B62013	Dongare Amol Eknathrao	19
14	B62014	Ekal Roshan Krishnat	9
15	B62015	Gangnar Govind Vajinath	12
16	B62016	Gawande Swati Pralhad	10
17	B62017	Goregaonkar Sanket Manoj	12
18	B62019	Hukkire Prasanna Tatyaso	11
19	B62020	Inamdar Imran Gulab	15
20	B62021	Ingale Kanchan Ramesh	17
21	B62022	Joshi Shrirang Rajendra	15
22	B62023	Kadam Prashant Sarjerao	9
23	B62024	Kamble Balaji Kundlik	18
24	B62025	Kande Prashant Bhagwat	20
25	B62026	Kharade Sonali Vitthal	14
26	B62027	Khomane Dipak Krushna	20
27	B62028	Kolpe Supriya Dinkar	14
28	B62029	Kumbhar Sonal Ramdas	17
29	B62030	Lokare Sushant Shankar	10
30	B62032	Mugale Saraswati Jagdish	10
31	B62033	Munghate Abhishek Bhaurao	12
32	B62034	Nangare Aishwarya Arun	11
33	B62035	Patil Harshal Liladhar	19
34	B62036	Pawar Siddheshwar Rajendra	11
35	B62037	Raut Mali Amol Balasaheb	19
36	B62039	Shahapurkar Bhakti Jangalu	12
37	B62040	Shinde Omkar Pandurang	20
38	B62041	Shinde Vishal Ashok	9
39	B62042	Shisode Snehal Dipak	14
40	B62043	Solanke Mahesh Kishanrao	16



41	B62044	Sonar Akshay Anil	17
42	B62045	Sonar Aniket Ajay	17
43	B62046	Suryawanshi Akshay Annarao	16
44	B62047	Suryawanshi Lavha Champati	19
45	B62049	Tambe Sarvesh Sanjay	18
46	B62050	Tayade Harshal Bhimrao	11
47	B62051	Tupsoundar Kiran Prakash	10
48	B62052	Uphade Balaji Ashok	13
49	B62053	Vitkar Rohan Rajendra	9
50	B62056	Warkhade Vijay Jayvant	9
51	B62057	Lahane Umang Madhukar	20

(Signature)

Course coordinator



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- **SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA)** Wonderware Intouch

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A. Kote.

PRINCIPAL

[Signature]

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