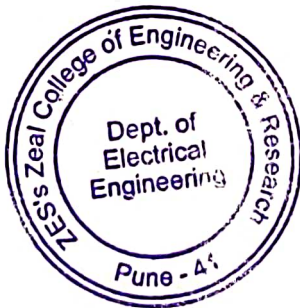


INDEX

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following 1. Soft skills, 2. Language and communication skills, 3. Life skills (Yoga, physical fitness, health and hygiene), 4. ICT/computing skills 2017-18

Name of the capacity development and skills enhancement program	Date of implementation (DD-MM-YYYY)	Number of students enrolled	Name of the agencies/consultants involved with contact details (if any)
“Automation- PLC & SCADA”	16-08-2017	BE Electrical Students (100)	Mr. Jotindar Nath Chaudhari MPTA Education Ltd., Pune




 Head

Department of Electrical Engineering
 Zeal College of Engineering & Research, Pune

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”

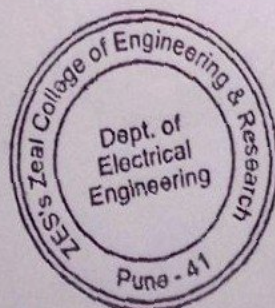
Organized by,
Department of Electrical Engineering, ZCOER, Pune

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



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

Allen Bradley PLC
(1 ½ Days)

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

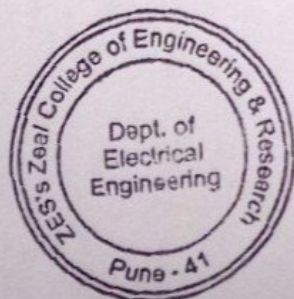
SCADA concepts, necessity, applications, features & latest trends, communication Protocols.

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

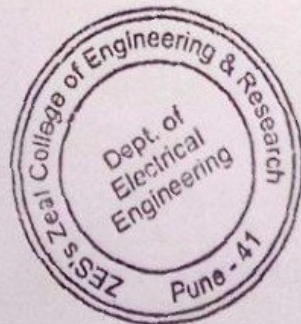
The Department of Electrical Engineering of ZES, ZCOER has organized a hands-on training on "PLC SCADA", dated on 16th and 21th August, 2017 for BE-A & 28th Aug. to 2nd Sept, 2017 for



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 & Moresch Narkhede from B.E.(A) & Sarvrsh Tambe from B.E.(B) gave the feedback from students.



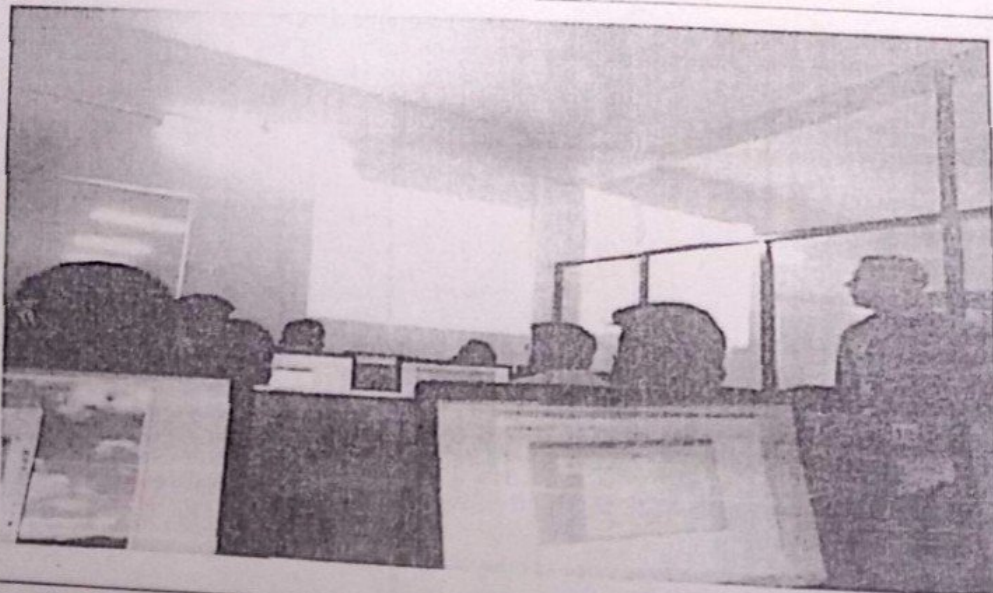
ZES ZCOER
Department of Electrical Engineering



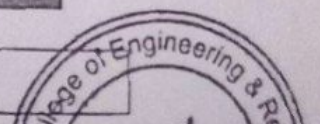
Handson Session- Relay Logic - by Mr. Jotindar Nath Chaudhari- 17/08/2017



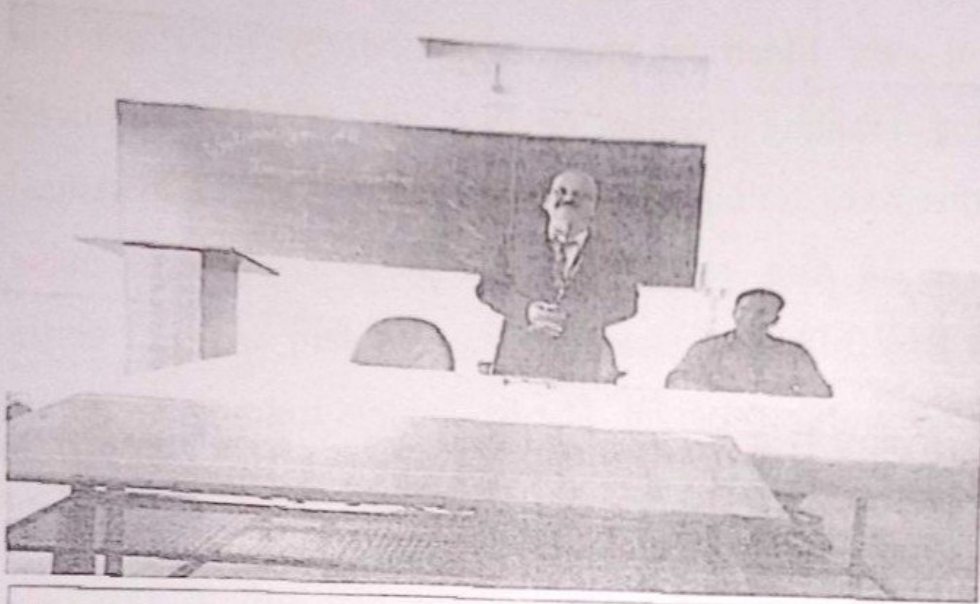
Handson Session- PLC - by Mr. Jotindar Nath Chaudhari- 31/08/2017



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



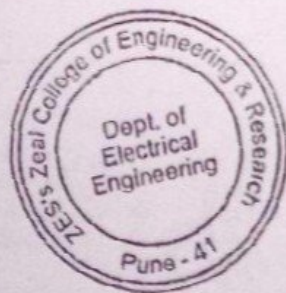
ZES ZCOER
Department of Electrical Engineering



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

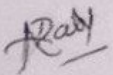
Date: 31/07/2017

NOTICE

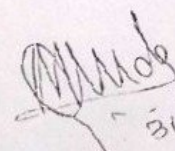
All Final year Electrical students are hereby informed that we are organizing Training Program on PLC and SCADA Application. This will be one week training program during 16 Aug. to 21 Aug. for BE A Division & 28 Aug. to 02 Sept. for BE B Division. Course will be conducted by MPTA Education Pune. Student 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.

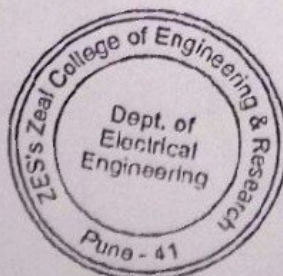
Note: The training program is compulsory to all students.


Prof. Anupama Patil & Prof. Kunal Joshi

Assistant Professor
Subject In charge


Dr. M. G. Unde

HoD



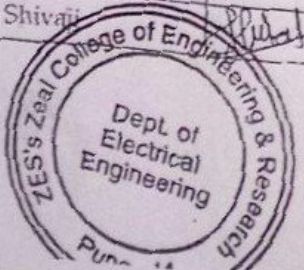
BE-B

~~Ray~~ JAK -

BE-A

~~Rob~~ RMZ

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	Bhoskar	Bhoskar
B61005	Birajdar Bhimanna 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	Dumre Aishwarya Giriram	Dumre	Dumre	Dumre	Dumre	Dumre	Dumre
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 Sidhagamesh 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	Hujband	Mayur	Hujband	Mayur	Hujband	Mayur
B61018	Jadhav Dattatray Mansing	Jadhav	Dattatray	Jadhav	Dattatray	Jadhav	Dattatray
B61019	Jadhav Gorakshnath	Jadhav	Gorakshnath	Jadhav	Gorakshnath	Jadhav	Gorakshnath
B61020	Jain Shubham Parasmalji	Jain	Shubham	Jain	Shubham	Jain	Shubham
B61021	Kadam Pratik Dilip	Kadam	Pratik	Kadam	Pratik	Kadam	Pratik
B61022	Kalkante Sumeet P	Kalkante	Sumeet	Kalkante	Sumeet	Kalkante	Sumeet
B61023	Kale Prasad Ramesh	Kale	Prasad	Kale	Prasad	Kale	Prasad
B61024	Kanaskar Mayur H	Kanaskar	Mayur	Kanaskar	Mayur	Kanaskar	Mayur
B61025	Khade Sharad Sampat	Khade	Sharad	Khade	Sharad	Khade	Sharad
B61026	Kumbhar Kiran Shivaji	Kumbhar	Kiran	Kumbhar	Kiran	Kumbhar	Kiran
B61027	Kumthekar Shweta Surendra	Kumthekar	Shweta	Kumthekar	Shweta	Kumthekar	Shweta
B61028	Lad Rohan Dilip	Lad	Rohan	Lad	Rohan	Lad	Rohan
B61030	Mudgade Pavan Sudhir	Mudgade	Pavan	Mudgade	Pavan	Mudgade	Pavan
B61031	Nanaware Morika Balasaheb	Nanaware	Morika	Nanaware	Morika	Nanaware	Morika
B61032	Narkhede Moresh S	Narkhede	Moresh	Narkhede	Moresh	Narkhede	Moresh
B61033	Nawale Pranjanya Kajilas	Nawale	Pranjanya	Nawale	Pranjanya	Nawale	Pranjanya
B61034	Panpatte Neha Diliprao	Panpatte	Neha	Panpatte	Neha	Panpatte	Neha
B61037	Patole Kshitija Sunil	Patole	Kshitija	Patole	Kshitija	Patole	Kshitija
B61038	Pawar Sheetal Shivaji	Pawar	Sheetal	Pawar	Sheetal	Pawar	Sheetal

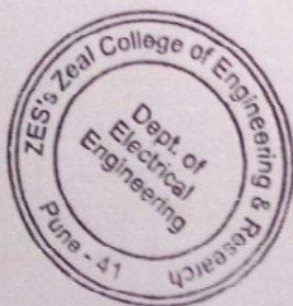


B.I.No.	Name of Candidate	16-8-17	17-8-17	18-8-17
B61039	Powar Shubham Sanjayhaji	Shubham	Shubham	Shubham
B61040	Kaut Shubhangi Shivaji	Shubhangi	Shubhangi	Shubhangi
B61041	Sarode Shubhada Vasudeo	Shubhada	Shubhada	Shubhada
B61042	Shaikh Shadab Ansar	Shadab	Shadab	Shadab
B61043	Shendge Amruta Sopan	Amruta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

B62047 Vishal R. T. ~~Vishal~~ ~~Vishal~~ ~~Vishal~~ ~~Vishal~~ ~~Vishal~~

B62018 Mahesh Hattirogo ~~Mahesh~~ ~~Mahesh~~ ~~Mahesh~~ ~~Mahesh~~ ~~Mahesh~~

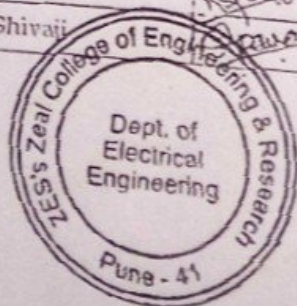
Total 52 52 51 53



(Signature)

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

Roll No.	Name of Student	14 th Aug 2017		20/8/17		24/8/17	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
B61001	Adsul Kshitij Sopan	Ktj	Ktj	Ktj	Ktj	Ktj	Ktj
B61003	Bharam Navaso Kalyan	Bhram	Bhram	Bhram	Bhram	Bhram	Bhram
B61004	Bhoskar Mayur	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur
B61005	Birajdar Bhimna Hulappa	Biraj	Biraj	Biraj	Biraj	Biraj	Biraj
B61006	Chaudhari Swapnil M	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil
B61007	Dalvi Rutuja Vilas	Rutuja	Rutuja	Rutuja	Rutuja	Rutuja	Rutuja
B61008	Daxase Anvesh Nana	Anvesh	Anvesh	Anvesh	Anvesh	Anvesh	Anvesh
B61009	Deokar Sayali Satish	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali
B61010	Dumne Aishwarya Gifiram	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
B61011	Gayakwad Prashik Anil	Prashik	Prashik	Prashik	Prashik	Prashik	Prashik
B61012	Ghadage Prashant	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant
B61013	Ghugare Omkar Bajarang	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar
B61014	Gote Sidhaganesha Manmath	Sidhanta	Sidhanta	Sidhanta	Sidhanta	Sidhanta	Sidhanta
B61015	Gund Dhanashree Balasaheb	Dhanashree	Dhanashree	Dhanashree	Dhanashree	Dhanashree	Dhanashree
B61016	Honrao Shubham Avinash	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
B61017	Hulkarni Mayur Jagdish	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur
B61018	Jadhav Anant Prayanshu	Anant	Anant	Anant	Anant	Anant	Anant
B61019	Jadhav Gorakshnath	Gorakshnath	Gorakshnath	Gorakshnath	Gorakshnath	Gorakshnath	Gorakshnath
B61020	Jain Shubham Parasmalji	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
B61021	Kadam Pratik Dilip	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
B61022	Kaldante Sumeet P	Sumeet	Sumeet	Sumeet	Sumeet	Sumeet	Sumeet
B61023	Kale Prasad Ramesh	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad
B61024	Kanaskar Mayur H	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur
B61025	Khade Sharad Sampat	Sharad	Sharad	Sharad	Sharad	Sharad	Sharad
B61026	Kumbhar Kiran Shivaji	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
B61027	Kumthekar Shweta Surendra	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta
B61028	Lad Rohan Dilip	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan
B61030	Mudgale Pavan Sudhir	Pavan	Pavan	Pavan	Pavan	Pavan	Pavan
B61031	Nanaware Monika Balasaheb	Monika	Monika	Monika	Monika	Monika	Monika
B61032	Narkhede Moresha S	Moresha	Moresha	Moresha	Moresha	Moresha	Moresha
B61033	Nawale Pratidnya Kailas	Pratidnya	Pratidnya	Pratidnya	Pratidnya	Pratidnya	Pratidnya
B61034	Panpatle Neha Diliprao	Neha	Neha	Neha	Neha	Neha	Neha
B61037	Patole Kshitija Sunil	Kshitija	Kshitija	Kshitija	Kshitija	Kshitija	Kshitija
B61038	Pawar Sheetal Shivaji	Sheetal	Sheetal	Sheetal	Sheetal	Sheetal	Sheetal



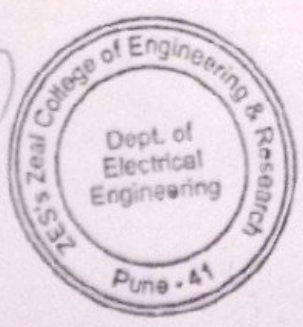
Roll No.	Name of Student	19-8-17	20/8/17	21-8-17
B61039	Patil Shubham Sambhaji	Patil	Patil	Patil
B61040	Raut Shubhangi Shivaji	Raut	Raut	Raut
B61041	Sarode Shubhada Vasudeo	Sarode	Sarode	Sarode
B61042	Shaikh Shadab Ansar	Shaikh	Shaikh	Shaikh
B61043	Shendge Amruta Sopan	Shendge	Shendge	Shendge
B61044	Shinde Vaibhav Kisan	Shinde	Shinde	Shinde
B61045	Shirke Ashwini Vilas	Shirke	Shirke	Shirke
B61046	Solanki Bhushan Anil	Solanki	Solanki	Solanki
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	Sam	Sam	Sam
B61058	Dake Snehal Suryakant	Dake	Dake	Dake
B61059	Kolate Akshay Balasaheb	Kolate	Kolate	Kolate
B61061	Gaikwad Siddharth	Gaikwad	Gaikwad	Gaikwad
B61062	Karanjkar Navan	Karanjkar	Karanjkar	Karanjkar
B61063	Kachare Swapnil	Kachare	Kachare	Kachare
B61064	Mane Mahesh	Mane	Mane	Mane
B61065	More Audumbar	More	More	More
B61066	Chimste Harish	Chimste	Chimste	Chimste
B61067	Kanherkar Avinash Sunil	Kanherkar	Kanherkar	Kanherkar
B61068	Kulkarni Aniket Arvind	Kulkarni	Kulkarni	Kulkarni
B61069	Kore Sandeep			

B62018 Mahesh Hattiraje ~~MAHESH~~ ~~MAHESH~~ ~~MAHESH~~ ~~MAHESH~~ ~~MAHESH~~ ~~MAHESH~~

B62048 Vishal Tadavalekar ~~VISHAL~~ ~~VISHAL~~ ~~VISHAL~~ ~~VISHAL~~ ~~VISHAL~~ ~~VISHAL~~

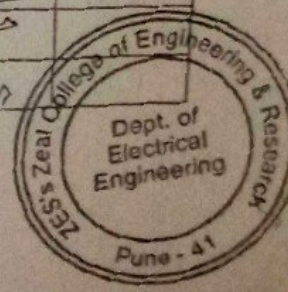
Total 57 49 51

(K.K. Joshi)



(M.M. D)
 HOD
 Dept. of Electrical Engineering
 ZES's Zeal College of Engineering & Research
 Pune - 41

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	Bhilare	Bhilare	Bhilare	Bhilare	Bhilare	Bhilare
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	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 Vajinath	Govind	Govind	Govind	Govind	Govind	Govind
B62016	Gawande Swati Pralhad	Gawande	Gawande	Gawande	Gawande	Gawande	Gawande
B62017	Goregaonkar Sanket Manoj	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
B62018	Hattirage Mahesh M Ist Batch			IST Batch			
B62019	Hukkire Prasanna Tatyaso	Hukkire	Hukkire	Hukkire	Hukkire	Hukkire	Hukkire
B62020	Inamdar Imran Gulab	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar
B62021	Ingale Karan 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 Sanket Ashok 70			YD			
B62032	Mugale Saraswati 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

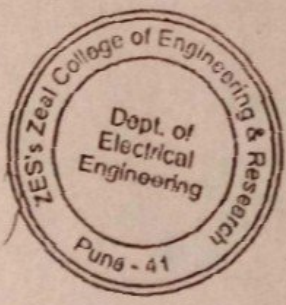


Roll No.	Name of Student	28/08/17	29/08/17	31/08/17
B62035	Patil Harshal Liladhar	Patil	Patil	Patil
B62036	Pawar Siddheshwar	Pawar	Pawar	Pawar
B62037	Raut Mali Amol Balasaheb	Raut	Raut	Raut
B62038	Sanap Vishal Mahadeo YD		YD	
B62039	Shahapurkar Bhakti	Shakti	Shakti	Shakti
B62040	Shinde Onkar Pandurang	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 Lavha	Lavha	Lavha	Lavha
B62048	Tadavalekar Vishal Ist ^{Batch}			
B62049	Tambe Sarvesh Sanjay	Tambe	Tambe	Tambe
B62050	Tayade Harshal Bhimrao	Tayade	Tayade	Tayade
B62051	Tupsoundar Kiran Prakash		YD	
B62052	Uphade Balaji Ashok	Balaji	Balaji	Balaji
B62053	Vitkar Rohan Rajendra	R.Vitkar	R.Vitkar	R.Vitkar
B62054	Wagh Bharat Ganesh YD		YD	
B62055	Waghmare Sandip Khandu		YD	
B62056	Warkhade Vijay Jayvant	Warkhade	Warkhade	Warkhade
B62057	Lahane Umang Madhukar	Lahane	Lahane	Lahane
B62058	Patki Sagar YD		YD	
B62059	Navale Shubham	Navale	Navale	Navale
B62060	Chaudhari Sanket	Sanket	Sanket	Sanket
B62061	Dipte Aarti Anil	Dipte	Dipte	Dipte
B62062	Sonawane Kishor Prakash	Konay	Konay	Konay
B61037	Patole Kshitiya Sunil	Kapatole	Kapatole	Kapatole

TOTAL -

54 54 54 54 54

(K.K. Joshi)

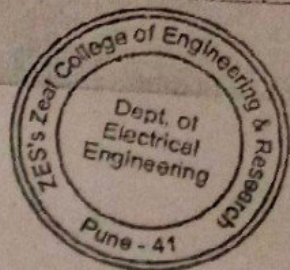


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ZES's Zeal College of Engineering, Pune
 Department of Electrical Engineering
 B. E. Electrical - B.E. SEM I, VY. 17-180

PLC SCADA TRAINING BY MPE (Pune) (17-18) (2017-18) (02/09/2017)

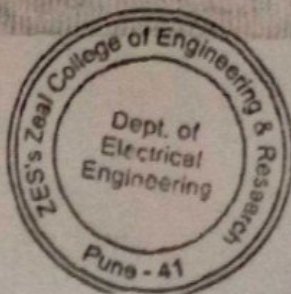
Roll No	Name of Student	Date					
		01/09/17	02/09/17	03/09/17	04/09/17	05/09/17	06/09/17
B62001	Balkhande Alay Vijay	Balkhande	Balkhande	Balkhande	Balkhande	Balkhande	Balkhande
B62002	Manoj Keshav Mankar	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62003	Manoj Dipak Prasad	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62004	Manoj Pallavi	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62005	Manoj Saurabh Dattatray	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62006	Manoj Sudashan Suresh	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62007	Manoj Sanjay	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62008	Manoj Shubham	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62009	Manoj Prasant Navnath	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62010	Manoj Ketki Suryakant	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62011	Manoj Pratik Ashok	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62012	Manoj Anil Ekantkaran	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62013	Manoj Roshan Krishnat	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62014	Manoj Gaurav Vignath	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62015	Manoj Swati Pralhad	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62016	Manoj Sanket Anmol	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62017	Manoj Anil Anil	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62018	Manoj Prashant Tatyasa	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62019	Manoj Anurag Gulab	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62020	Manoj Anurag Ramesh	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62021	Manoj Shriharsh Padra	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62022	Manoj Prashant	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62023	Manoj Dalaji Kanchik	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62024	Manoj Prashant Bhagwat	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62025	Manoj Swati Vittal	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62026	Manoj Dipak Anshuman	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62027	Manoj Supriya Bankar	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62028	Manoj Satish Suresh	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62029	Manoj Sushant Shankar	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62030	Manoj Saraswati Jagdish	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62031	Manoj Abhinav	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62032	Manoj Anshuman Arun	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62033	Manoj Harshal Liladhar	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
B62034	Manoj Siddheshwar	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj



ZES'S ZEAL COLLEGE OF ENGINEERING, PUNE
 Department of Electrical Engineering
 B. E. Electrical - B DIV (SEM-I A.Y. 17-18)

PLC SCADA TRAINING BY MPTA, Pune (From 28/08/2017 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	Halkhande Ajay Vijay	Kalkhande	Kalkhande	Kalkhande	Kalkhande	Kalkhande	Kalkhande
B62002	Bansode Kinshori Makund	Bansode	Bansode	Bansode	Bansode	Bansode	Bansode
B62003	Borkale Sagar Dilip			YD			
B62004	Bavskar Dipak Pramod						
B62005	Bhale Rao Pallavi	Bhale	Bhale	Bhale	Bhale	Bhale	Bhale
B62006	Bhulare Saurabh Dattatray	Bhulare	Bhulare	Bhulare	Bhulare	Bhulare	Bhulare
B62007	Bhoite Sudarshan Sanjay	Bhoite	Bhoite	Bhoite	Bhoite	Bhoite	Bhoite
B62008	Chavari Ajay Sanjay	Chavari	Chavari	Chavari	Chavari	Chavari	Chavari
B62009	Chinke Shubham	Chinke	Chinke	Chinke	Chinke	Chinke	Chinke
B62010	Darckar Prashant Ravinath	Darckar	Darckar	Darckar	Darckar	Darckar	Darckar
B62011	Deshmone Ketki Suryakant	Deshmone	Deshmone	Deshmone	Deshmone	Deshmone	Deshmone
B62012	Dombale Pratik Ashok	Dombale	Dombale	Dombale	Dombale	Dombale	Dombale
B62013	Dongare Anil Eknathrao	Dongare	Dongare	Dongare	Dongare	Dongare	Dongare
B62014	Ekal Roshan Krishnat	Ekal	Ekal	Ekal	Ekal	Ekal	Ekal
B62015	Gangnar Govind Vajinath	Gangnar	Gangnar	Gangnar	Gangnar	Gangnar	Gangnar
B62016	Gawande Swati Pralhad	Gawande	Gawande	Gawande	Gawande	Gawande	Gawande
B62017	Goreganikar Sanket Anand	Goreganikar	Goreganikar	Goreganikar	Goreganikar	Goreganikar	Goreganikar
B62018	Hattirage Mahesh M	Ist Batch					
B62019	Hukre Prasanna Tatyaso	(Pds)	(Pds)	(Pds)	(Pds)	(Pds)	(Pds)
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 Sonal Vitthal	Kharade	Kharade	Kharade	Kharade	Kharade	Kharade
B62027	Khomane Dipak Krishna	Dipak	Dipak	Dipak	Dipak	Dipak	Dipak
B62028	Kolpe Supriya Dinkar	Kolpe	Kolpe	Kolpe	Kolpe	Kolpe	Kolpe
B62029	Kumbhar Sonal Ramdas	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
B62030	Lokare Sushant Shrikar	Lokare	Lokare	Lokare	Lokare	Lokare	Lokare
B62031	Mathe ... 70			YD			
B62032	Mugale Saurabh Jagdish	Mugale	Mugale	Mugale	Mugale	Mugale	Mugale
B62033	Murghate Abhishek	Murghate	Murghate	Murghate	Murghate	Murghate	Murghate
B62034	Nangare Aishwarya Arun	Nangare	Nangare	Nangare	Nangare	Nangare	Nangare



Roll No.	Name of Student	28/08/17	29/08/17	31/08/17
B2135	Patil Harshal Liladhhar	Present	Present	Present
B2136	Pawar Siddheshwar	Present	Present	Present
B2137	Raut Mani Anil (Bakshi)	Present	Present	Present
B2138	Sangap Vishal Mahendra	Present	Present	Present
B2139	Shedaparkar Bhakti	Present	Present	Present
B2140	Shinde Ankar Pandurang	Present	Present	Present
B2141	Shinde Vishal Ashok	Present	Present	Present
B2142	Srinivas Suresh Dipak	Present	Present	Present
B2143	Suryasa Mahesh Kishanrao	Present	Present	Present
B2144	Sutar Akshay Anil	Present	Present	Present
B2145	Sutar Aniket Yash	Present	Present	Present
B2146	Suryawanshi Akshay	Present	Present	Present
B2147	Suryawanshi Lavha	Present	Present	Present
B2148	Tadavalkar Vishal ^{1st Batch}	Present	Present	Present
B2149	Tambe Sarvesh Sunil	Present	Present	Present
B2150	Tayade Harsha Pherran	Present	Present	Present
B2151	Tapsundar Kiran Prakash	Present	Present	Present
B2152	Upinade Dilip Ashok	Present	Present	Present
B2153	Varkar Rohan Jitendra	Present	Present	Present
B2154	Waranbhai Nat Ganesh	Present	Present	Present
B2155	Waranbhai Sunil Ganesh	Present	Present	Present
B2156	Waranbhai Vinay Ganesh	Present	Present	Present
B2157	Waranbhai Umang Madhukar	Present	Present	Present
B2158	Patki Sagar	Present	Present	Present
B2159	Navale Shubham	Present	Present	Present
B2160	Chaudhari Sanket	Present	Present	Present
B2161	Dipre Aarti Anil	Present	Present	Present
B2162	Sonawane Kishor Prakash	Present	Present	Present
B2163	Patole Ashish	Present	Present	Present

Total 54 54 53 54 54 54

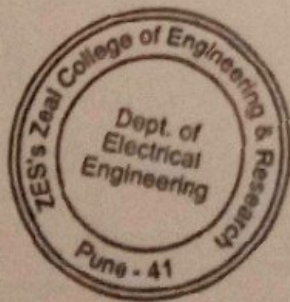


[Signature]
 HOD
 Dept. of Electrical Engineering
 ZES's Zeal College
 of Engineering & Research,
 Narhe, Pune - 411 041

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.



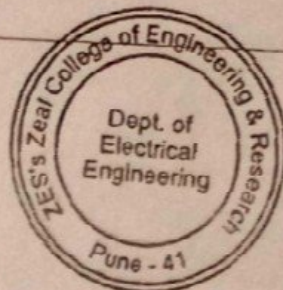
Rohit
(course coordinator)

MPTA Education

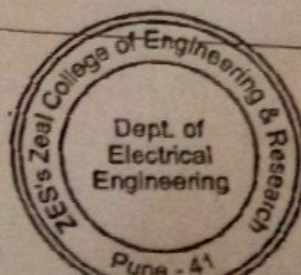
Test-Automation PLC SCADA (2/9/2017)

ZES's Zeal College of Engineering & Research, Pune

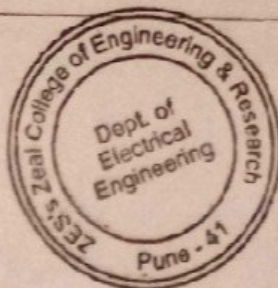
1	CPU operates on
A	5 V DC
B	5 V AC
C	110 V AC
D	110 V DC
2	The memory which is erasable by ultraviolet light is known as
A	RAM
B	EEPROM
C	UVROM
D	EPROM
3	The purpose of isolation block in I/O module is
A	it senses the presence or absence of an input signal
B	it converts the input signal for high or 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



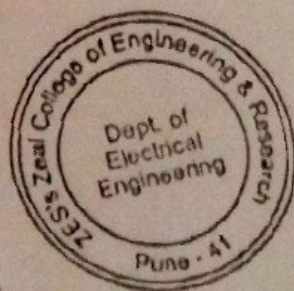
C	The count reaches preset value
D	The count exceeds preset value
6	Normally closed contact in series with coil(Lamp) in a single rung is an example of
A	AND gate
B	OR gate
C	NOT gate
D	EXOR gate
7	If timer T4:0 setting is , Preset=50 and Timebase=0.1, then how much delay is generated by the timer in 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)

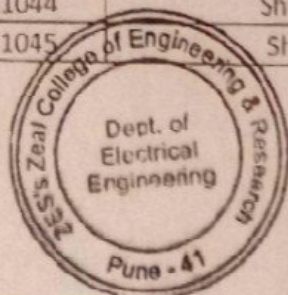


- A Touch screens
- B Joysticks
- C Toggle switches
- D Status lights
- 17 A central host computer servers are called as
- A Remote Terminal Unit
- B Master Terminal Unit
- C Microcontroller
- D Digital Control System
- 18refers to the way a network is laid out, either physically or logically
- A Line 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

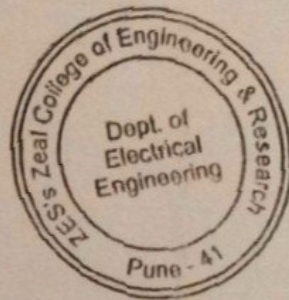


Result of PLC & SCADA (MPTA) course

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 Anif	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	Power 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



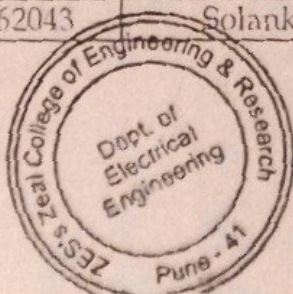
43	B61047	Telang Ankita Anil	16
44	B61048	Todmal Tushar Balasaheb	16
45	B61049	Umbare Shrishail Dattatray	19
46	B61050	Waghmode Sangram Subhash	11
47	B61053	Hirve Priyanka	14
48	B61054	Narute Sumit	17
49	B61055	Patil Kunal	15



Ram
(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 Vaijnath	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



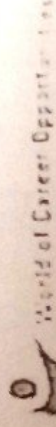
41	B62044	Sonar Akshay Anil	17
42	B62045	Sonar Aniket Ajay	17
43	B62046	Suryawanshi Akshay Annarao	16
44	B62047	Suryawanshi Lavha Champati	19
45	B62049	Tambe Sarvesh Sanjay	18
46	B62050	Tavade Harshal Bhimrao	11
47	B62051	Tupsoundar Kiran Prakash	10
48	B62052	Uphade Balaji Ashok	13
49	B62053	Vitkar Rohan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

(Signature)

Course coordinator



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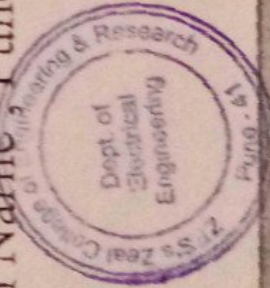
CERTIFICATE

This is to certify that Mr / Miss Adsul Kshitij Sopan

has successfully completed the training program on Industrial Automation conducted by MPTA Education Ltd Joint Association with Zeal College Of Engineering & Research, Narhe Pune (Department of electrical) It covers

- PROGRAMMABLE LOGIC CONTROLLER Allen Brandely (SLC 5/03/ Micrologix 1400)PLC
- SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) Wonderware Intouch

Conducted from 16th August 2018 to 21th August 2018 in Zeal College Of Engineering & Research Narhe Pune.



Akote

PRINCIPAL

M. N. N.

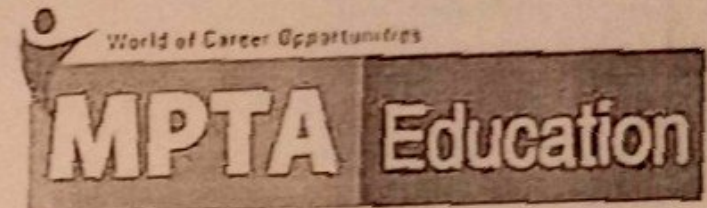
HOD

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A. Kote
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