

## **Workshops conducted**

### **Basics of PLC & It's Applications**

**Organized by**

**Department of Instrumentation Engineering**

**18<sup>th</sup> & 20<sup>th</sup> February 2019**

In Association With

**TATA Power Skill Development Institute Trombay,  
Mumbai, Maharashtra (TPSDI 2019)**

#### **RESOURCE PERSONS**

- Mr. Shivanand Katare  
Trainer - TATA Power Skill Development Institute Trombay, Mumbai, Maharashtra
- Mr. Pesuna Yazdi  
Trainer - TATA Power Skill Development Institute Trombay, Mumbai, Maharashtra

#### **Contents :**

- Architecture of a Programmable Logic Controller (PLC)
- Different classifications of PLCs in the Industry
- Benefits over Hardwired Relay Logic
- Details of different components of a PLC
- Input / Output modules and their configuration & Termination
- PLC Programming concepts
- Levels of redundancy in PLCs
- Hands-on experience on a PLC Trainer
- How to Install PLC System software on a Workstation
- Building basic Ladder logic diagram for a given requirement, downloading and running it on the PLC
- Load, run, test, simulate, modify preprogrammed applications on the PLC Trainer Panel
- Creating HMI interface
- Application of PLCs in the Power Industry
- Concepts of Redundancies deployed in making PLCs robust

## **ORGANIZING COMMITTEE**

Mr.Avinash Pawar  
HOD, (Instrumentation)

Ms Pradnya Gokhale  
(Instrumentation)

Mr. Vikas Nandeshwar  
(Instrumentation)

Mr Umesh Satpute  
(Instrumentation)

Mr.Sadanand Gite  
(Instrumentation)

Ms.Pratibha Pandit  
(Instrumentation)

Mr. Parshuram More  
(Instrumentation)

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- Mr. Shivanand Katare  
Trainer - TATA Power Skill Development Institute Trombay, Mumbai, Maharashtra
- Mr.Pesuna Yazdi  
Trainer - TATA Power Skill Development Institute Trombay, Mumbai, Maharashtra

## **Basics of PLC & It's Applications @ Instrumentation Department**

In association with **TPSDI 2019**

A three day workshop on, “PLC and Its Applications” is Conducted in department of Instrumentation of MPCOE Velneshwar by “TATA Power Skill Development Institute ” from 18<sup>th</sup> -20<sup>th</sup> Feb 2019.

The objective of this workshop is to study basics of PLC classification, different components, hands on Experimentation on PLC for Faculties and students.

### **About Workshop**

The work shop on “Basics PLC and It's Applications” explores the ideas , its Industrial applications and programming of PLC that is useful for engineering students.

Total 17 students and faculties participated in this workshop where both the trainers Mr.Shivanand Katare and Mr.Pesune Yazdi Conducted their sessions in interactive manner

Training Program: Basics of PLCs and its Applications



Mr. Vikas Nanadeswar Welcomes TPSDI trainers Mr. Shivanand Katare and Mr.Pesuna Yazdi

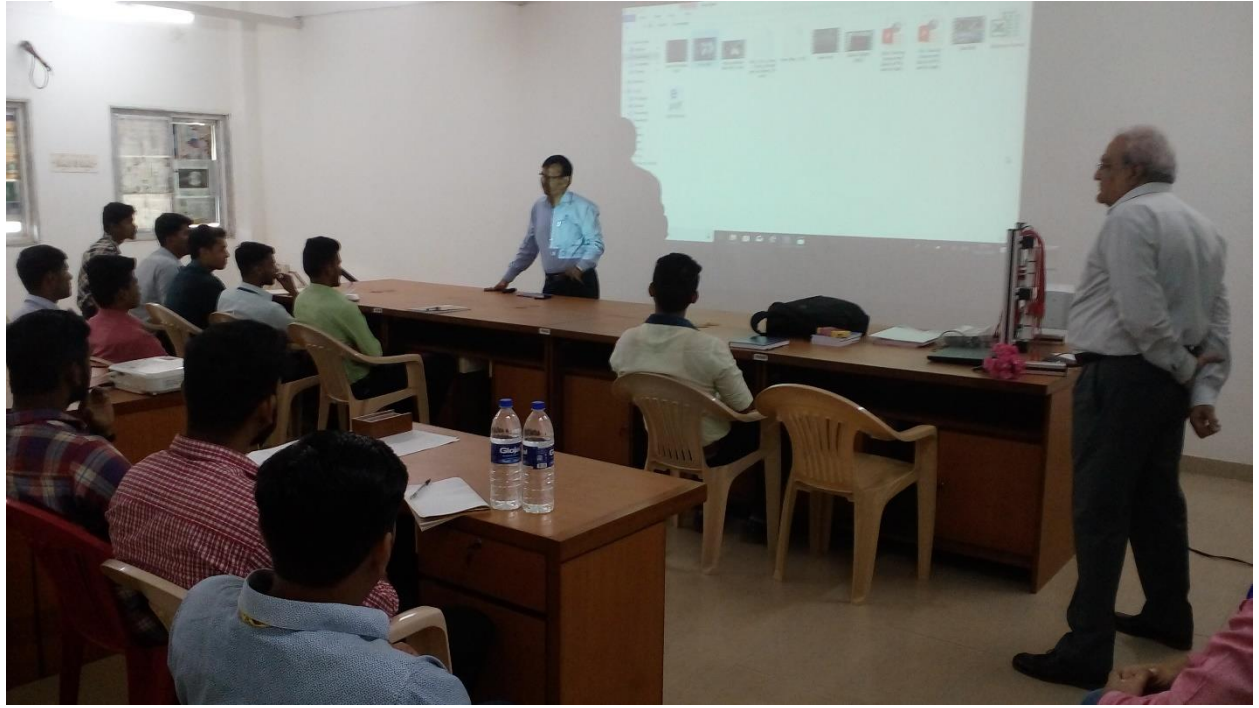


Session Photos :



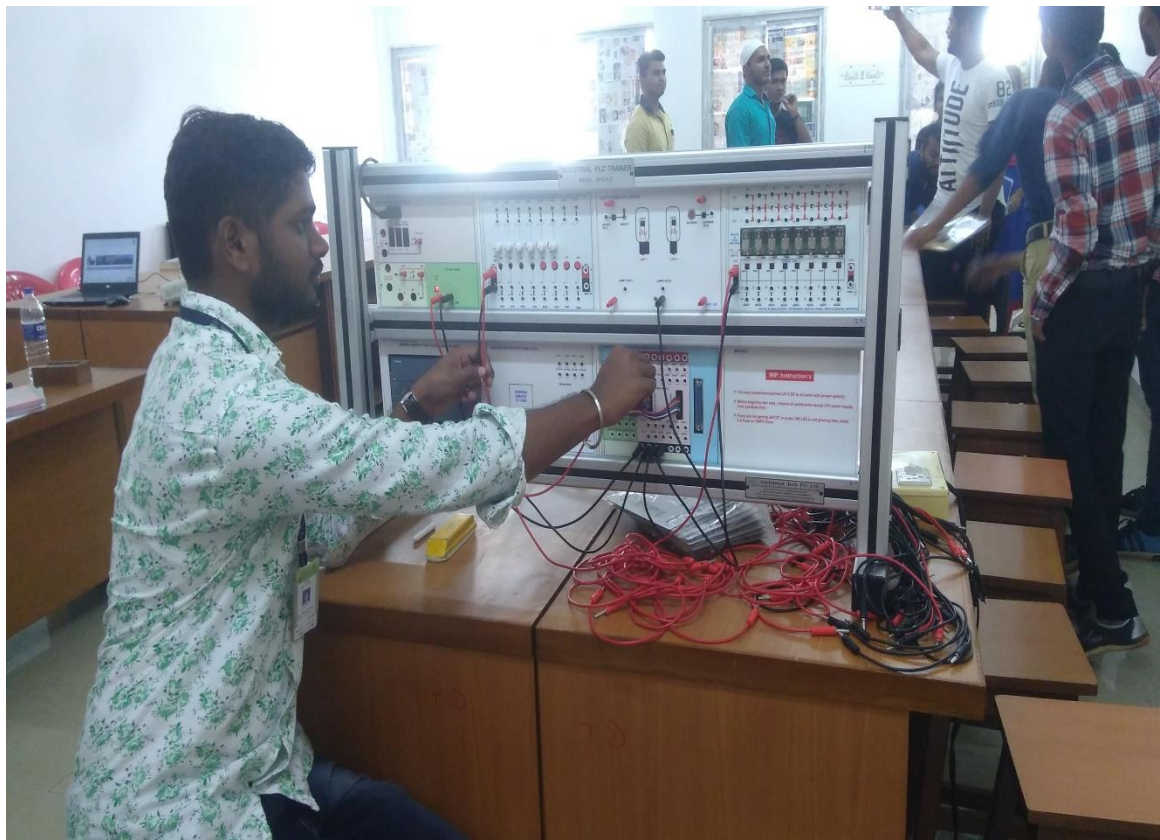














## Attendance:

### 3-Days workshop on "PLC & its Applications"

Conducted by

**TATA Power Skill Development Institute (TPSDI)**

Sr. No	Name of Participants	18 Feb	19 Feb	20 Feb
1	Mr. Aniket Prabhakar Pagade	<del>Payle</del>	<del>Payle</del>	<del>Payle</del>
2	Mr. Aniket Anant Shirkar	<del>Shirkar</del>	<del>Shirkar</del>	<del>Shirkar</del>
3	Ms. Nutan Shirish Oak	<del>Oak N.S.</del>	<del>Oak N.S.</del>	<del>Oak N.S.</del>
4	Ms. Pratiksha Ramesh Mandalekar	<del>Mandalekar</del>	<del>Mandalekar</del>	<del>Mandalekar</del>
5	Mr. Sairaj Sanjay Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>
6	Mr. Ishtiyaq Abdul Karim Patait	<del>Patait.</del>	<del>Patait.</del>	<del>Patait</del>
7	Mr. Sagar Santosh Bhosale	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>
8	Mr. Suraj Ramesh Bhosale	<del>Bhosale</del>	<del>Bhosale</del>	<del>Bhosale</del>
9	Mr. Aditya Yogesh Rajput	<del>Rajput</del>	<del>Rajput</del>	<del>Rajput</del>
10	Mr. Subodh Gajanan Jangli	<del>Jangli</del>	<del>Jangli</del>	<del>Jangli</del>
11	Ms. <sup>Poonam</sup> Sunil Gamare	<del>Gamare</del>	<del>Gamare</del>	<del>Gamare</del>
12	Mr. Prashant Pratap Shirke	<del>Shirke</del>	<del>Shirke</del>	<del>Shirke</del>
13	Mr. Pranit Panchal	<del>Panchal</del>	<del>Panchal</del>	<del>Panchal</del>
14	Mr. Siddhesh Ankush Halde	<del>Halde</del>	<del>Halde</del>	<del>Halde</del>
15	Mr. Sachin Umesh Dhawde	<del>Dhawde</del>	<del>Dhawde</del>	<del>Dhawde</del>
16	Mr. Swapnil Mohite	<del>Mohite</del>	<del>Mohite</del>	<del>Mohite</del>
17	<del>Mr. Parashuram Babush More</del>	<del>More</del>	<del>More</del>	<del>More</del>
18	Ms. Rahul Gurunath Udey	<del>Udey</del>	<del>Udey</del>	<del>Udey</del>
19	Ms. Parashuram Babush More	<del>More</del>	<del>More</del>	<del>More</del>
20				

  
 HOD 20/02/2019  
 (Instrumentation Engg.)  
 I/C Head  
 Department of Instrumentation Engg  
 VPM's MPCOE Velneswar  
 Tal. - Guhagar (Ratnagiri) 415729

## Feedback

**Training Feedback**

<b>Participant Name [optional]:</b>	Poonam Sunil Gamare.			
<b>Course Name:</b> Basics of PLC & Applications	<b>Start Date:</b> 18-Feb-19	<b>End Date:</b> 20-Feb-19		
<b>Facilitator(s):</b> Mr. S H Katare	Mr. Y J Pesuna	<b>Venue:</b> Velneshwar		

		Disagree <span style="float: right;">→</span> Agree												
		0	1	2	3	4	5	6	7	8	9	10		
<b>A</b>	The training was relevant to my area of study / curriculum													✓
<b>B</b>	The training will help me to get better understanding of relevant topics covered in my studies													✓
<b>C</b>	The training helped me gain new knowledge required to do my studies effectively													✓
<b>D</b>	The training will improve understanding of safety practices													✓
<b>E</b>	Topics were covered in necessary detail and depth											✓		
<b>F</b>	The facilitator was knowledgeable and experienced in his domain for the objectives of this session													✓
<b>G</b>	Relevant examples / case studies were discussed											✓		
<b>H</b>	Will recommend this training to a friend or a colleague													✓
<b>I</b>	How satisfied are you overall with this training program?											✓		

Things I like most about the course / session

- a) Doubts cleared successfully.
- b) Open Discussion.

Suggestions for Improvements

- a) \_\_\_\_\_
- b) \_\_\_\_\_

Any other comments/suggestions:

- a) \_\_\_\_\_
- b) \_\_\_\_\_

**Date:** 20/02/2019

**Training Feedback**

<b>Participant Name [optional]:</b>	<i>Aniket Anant Shitkar</i>		
<b>Course Name:</b> Basics of PLC & Applications	<b>Start Date:</b> 18-Feb-19	<b>End Date:</b> 20-Feb-19	
<b>Facilitator(s):</b> Mr. S H Katare	Mr. Y J Pesuna	<b>Venue:</b> Velneshwar	

		Disagree <span style="float:right">→</span> Agree											
		0	1	2	3	4	5	6	7	8	9	10	
A	The training was relevant to my area of study / curriculum											✓	
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D	The training will improve understanding of safety practices												✓
E	Topics were covered in necessary detail and depth									✓			
F	The facilitator was knowledgeable and experienced in his domain for the objectives of this session												✓
G	Relevant examples / case studies were discussed										✓		
H	Will recommend this training to a friend or a colleague											✓	
I	How satisfied are you overall with this training program?										✓		

Things I like most about the course / session

- a) Both trainers gave much more information about PLC.  
 b) \_\_\_\_\_

Suggestions for Improvements

- a) Increase duration of days training.  
 b) \_\_\_\_\_

Any other comments/suggestions:

- a) Training was good!  
 b) \_\_\_\_\_

Date: 20/02/2019





Organizing committee & Trainers with HOD Mr. Avinash Pawar.

## **Mobile controlled Robotics workshop by Electrical Engineering Department**

Department of Electrical Engineering organized Two days “Mobile controlled Robotics” workshop has grand successfully completed on February 8<sup>th</sup> & 9<sup>th</sup>–2016.

Highlights of workshop: In this workshop around 150 Students are participated from nearby surrounding 10 Diploma Colleges.

Out of 30 groups, 4 groups are selected to participating in National level competition, which is held in IIT Kharagpur.

Students have enjoyed this workshop & gained knowledge about different techniques used in robotics.

To make this workshop successful with respected Director, Dr. K.D. Desai and Principal Dr. Shilpa Kamat guided. From Department, HoD Mr. Satish Ghorpade, Workshop Coordinator Mr. Santoshkumar M Hunachal, Ms. Priti Sathe were present for the workshop while all other faculty & staff took lot of efforts to make it successful.

Some photographs are attached herewith,



1<sup>st</sup> prize goes to Govt. Polytechnic College, Ratnagiri.





## Report on ETABS workshop

Department of Civil Engineering has arranged a three days' workshop on software ETABS for T.E Civil from 27<sup>th</sup> September 2018 to 29<sup>th</sup> September 2018. Dr Shilpa Deorukhakar Inaugurated the workshop ceremony on 27<sup>th</sup> September and Mr. Venkatesh taduvai was coordinator of ETABS Workshop Overall 49 Students have participated in this program.



Mr. Venkatesh Taduvai delivering lecture to Students



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Palnagiri (Maharashtra) 415 728  
(AICTE & DTE approved and affiliated to University of Mumbai)

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info@pmthane.org  
URL: www.mpcoe.org

## **DEPARTMENT OF MECHANICAL ENGINEERING**

Date: - 28/07/2018

### **Report of Technical Seminar on “Mechatronics & Industrial Automation”**

Department of Mechanical Engineering organized a technical seminar “*Mechatronics & Industrial Automation*” on 27<sup>th</sup> July 2018. The Lecture was delivered by Mr. Suhas Gadekar (HoD Mechanical) of Prolific Technolgy Pvt. Ltd. (Pune)

➤ **Aim of the Guest Lecture:-**

The Seminar is aimed at giving Students an actual working of Industry. This Seminar shall be the first step towards satisfying career in Industrial Sector.

➤ **Objective:-**

Students should know-how with the updates in the industries that are associated to mechanical engineering

➤ **Contents that were discussed during this Guest lecture are as follows.**

- Trends in Industries
- Latest Technologies
- Conditioning Monitoring techniques.
- Industrial Practice use in equipment predictive maintenance techniques.
- Technologies using in Industries
- Career opportunities in Modern Manufacturing Systems.
- Interview Techniques
- What is Automation?
- Career Opportunities in Automation
- Distributed control systems
- PLC
- Different models of PLC'S
- Logic of PLC

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  - Career Opportunities in Automation
  - Distributed control systems
  - PLC
  - Different models of PLC'S
  - Logic of PLC

For the lecture total 68students from Final year r were present. They had a dialogue conversation with the guest.

For the lecture to be successful, From the department, **HOD Mr. B.A Patil** , Event Coordinator Mr. P.V. Bapat and all other faculty & staff took efforts to make it successful.

Event Co-coordinator  
Prof. P.V. Bapat

H.O.D  
Prof. B.A. Patil



*Some of the Photographs of the Technical Seminar*



**Technical seminar on ‘Mechatronics & Industrial Automation’ held on 27<sup>th</sup> July 2018  
organized by Department of Mechanical Engineering.**



**Workshop on 'Non-destructive testing. (March 2017)**



**Workshop on 'Mechanical Maintenance of valves & Pumps. (March 2019)**