

## GOVERNMENT POLYTECHNIC PEN

Government Polytechnic Pen has been established in 1990 by Government of Maharashtra. It is spread over land area of 12 Acre in Pen, Dist. Raigad. This Institute is running five Polytechnic programs viz. Civil, Mechanical, Chemical, Computer Technology and Instrumentation and Control Engineering having total intake of 260 students. It is governed by Hon. Director, Directorate of Technical Education, Mumbai. Apart from diploma courses it also provides consultancy, testing and services to industry & runs Community Polytechnic Scheme of MHRD, Government of India, and New Delhi.

Instrumentation and Control Engineering course was introduced in 1996. The vision of the department is 'To develop required skill-set for becoming competent diploma instrumentation engineers through the state-of-the-art Instrumentation engineering laboratory facilities in collaboration with industry'. The department has qualified and dedicated faculty members with the specialization in various areas, and contribute in various institutional development activities apart from academic work. Every year department arranges various technical skills-oriented programs/ workshops as well as social activities for the students and faculties too.

## VISION

To become a leading center in the field of Engineering and Technology to develop competent professionals for industrial and social growth.

## MISSION

1. Impart updated diploma level outcome based technical education.
2. Inculcate lifelong learning abilities, soft skills and entrepreneurial qualities in students.
3. Develop facilities and services for academic excellence.
4. Contribute to industry & society through consultancy and community services.

## PATRONS

**Hon. Dr. Abhay Wagh**

Director,  
Directorate of Technical Education, Mumbai.

**Hon. Dr. V.M. Mohitkar**

Director, MSBTE  
Mumbai

**Hon. Mr. P. A. Naik**

Joint Director, R. O.  
Mumbai

## PRINCIPAL AND CHIEF COORDINATOR

**Dr. S. S. Bhamare**

Principal  
Government Polytechnic Pen

## PROGRAM COORDINATOR

**Dr. A. A. Bhandakkar**

I/C HoD (Instrumentation & Control Engineering)  
Contact No.: **8699666181**  
Email-id- [icontrol645@gmail.com](mailto:icontrol645@gmail.com)

## PROGRAM CO-CORDINATOR

**Smt. J. J. Mane.**

Lecturer in E&TC  
**8788802772**

**Smt. R. S. Thakare**

Lecturer in Instrumentation  
**8668865563**

## ADVISORY COMMITTEE

**Dr. R. D. Padhye**, HoD, Civil Engg.

**Mr. P.U. Garge**, I/C HoD, Mechanical Engg.

**Mrs. S. P. Ambavane** I/C HoD, Computer Engg.

**Ms. C. B. Patil**, I/C HoD, Chemical Engg.

**Mr. P. V. Deshmukh**, Science Coordinator

One Week

Faculty Development Program

on

**“Industrial Automation with PLC  
and Embedded System”**

(06<sup>th</sup> to 10<sup>th</sup> February 2023)

*Sponsored by*



**Directorate of Technical Education,  
Mumbai**

*Organized By*



**Department of  
Instrumentation & Control Engineering  
Government Polytechnic Pen, Shivaji  
Nagar, Ramwadi, Pen, District Raigad  
(MS) – 402107**

**Website: [www.gppen.ac.in](http://www.gppen.ac.in)**

## About FDP

PLC is an industrial computer for controlling processes as per the programmed instructions to perform specific functions. It collects, reads and processes data, makes logic-based decisions and then sends output instructions to control machines and processes. The real-world signals like temperature, level, speed etc, can be transformed into electrical signals by the external sensors and relayed to PLC that controls the processes. Future of industrial automation would not be possible without use of PLC.

Supervisory Control and Data Acquisition (SCADA) system is a system in which messages or commands are sent for operation and control of the processes. It is a software application which gathers data in real time from remote locations in order to control equipment and thereby conditions. It provides tools needed to make and deploy data-driven decisions regarding industrial processes.

An embedded system can be thought of as a computer hardware system having software embedded in it. It can be an independent system or it can be a part of a large system. It is a microcontroller or microprocessor-based system which is designed to perform a specific task.

This FDP is very beneficial for the faculties from all disciplines. It gives systematic approach for developing program, communication with hardware and thereby its control through PLC for various applications. In addition to expertise in automation field, it is going to be instrumental for your career advancement.

### FDP outcomes :

1. Understand basic components and concept of a PLC.
2. Execute PLC interface with Sensor Application.
3. Develop PLC program for hardware implementation.
4. Knowledge of SCADA programming.
5. Develop programming skills in embedded system.

## TARGET PARTICIPANTS

Faculty members from

- Polytechnics/ Engineering of Electronics, E&TC, Instrumentation, Instrumentation & Control, Mechanical, Automobile and Electrical and relevant branches of engineering
- UGC/AICTE/MHRD recognized Institutes
- Research scholars/working professionals

## REGISTRATION

**Registration Fee** - No registration fee

**How to apply for registration:** Participant should fill Google form for registration through following link <https://forms.gle/E2JXRRddKUAihTuT9>

## IMPORTANT DATES

- **Submission of online registration form:** On or before 24<sup>th</sup> January 2023
- Confirmation mail from the department will be sent to every participant on or before 27<sup>th</sup> Jan.2023
- **Maximum No. of Participants - 25**
- **Mode of Delivery** – Offline (Classroom)
- Certificate will be awarded after successful completion of the program with following terms.
  1. Minimum 80 % attendance is required.
  2. Minimum 60 % marks should be obtained in the test to be conducted at the end of FDP
- **How to reach:** By railway or by road.

## RESOURCE PERSONS

Faculties are experienced in the relevant fields and are from the esteemed organizations like IDEMI- Mumbai, TATA Powers - Khopoli, Sofcon India Pvt Ltd. Pune, Analogic Automation Pvt. Ltd. Pune Institutes and Industries.

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Participants Full Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Qualification : \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Experience (Teaching/Industry): \_\_\_\_\_

Contact Number : \_\_\_\_\_

Email id: \_\_\_\_\_

Signature of Participant

The application of \_\_\_\_\_  
is recommended and forwarded.

Date: \_\_\_\_\_ Place: \_\_\_\_\_

**Seal of Institution**

**Signature of Head of Institution**