

## About US:

The College of Engineering Pune (COEP) established in 1854 is one of the oldest and premier Engineering Institutions in the country. It has rich history and dedication to the pursuit of excellence and offers a unique learning experience across a spectrum of academic and social experiences. With a firm footing in truth and humanity, the institute provides its students with the understanding of both technical developments and the ethics that go with it. It is a recognized Research Center for doctoral programmes of the Savitribai Phule Pune University (SPPU) as well as a QIP centre. COEP has been consistently ranked amongst the top 21 technical institutes in India and its alumni have a lion's share in the development of national infrastructure. COEP has many eminent alumni such as Bharat Ratna Sir M. Visvesvaraya. Many of them are heading several leading engineering industries and organizations.

## About Department:

The Department of Production Engineering was founded on August 15, 1994. The department began its journey with the Country's first PG course with Specialization in 'Manufacturing Engineering and Automation'. The department with its team of dedicated, qualified and experienced faculty, offers sound programmes at both UG and PG levels. The UG program is B. Tech. Production Engineering (Sandwich Pattern). Department runs three PG programmes M. Tech. Production Engineering (Manufacturing Engg. & Automation), M. Tech. Mechatronics & M. Tech. Project Management. Department also runs two post graduate diploma courses namely PGD-ERP and PGD-Additive Manufacturing. The department aims at providing a valuable resource not only to the industries but also the society through excellence in technical education and research. COEP's Fab Lab, an outreach project of MIT's Centre for Bits and Atoms (CBA), provides a significant fillip to technological empowerment; peer to peer project based technical training and high-tech business incubation. The centralized Robotics and Automation Laboratory of COEP is a notable feature of the department. To keep abreast of the technological trends the departmental faculty undergoes a number of programmes and refresher courses and participates actively in seminars and conferences. With rich hardware and software resources and collaborative projects with the academia and industries, the department aims at providing an elite workforce of future leaders in myriad areas like designing, manufacturing engineering and automation, quality management and project management. Department is having state of the art facility as Rapid Prototyping Lab as well as Tribology & Terotechnology Lab. Department runs many continuing education programme like CAD/CAM, Mechatronics etc.

## Patrons:

Prof. B. B. Ahuja, Director, COEP  
Prof. B. N. Chaudhari, Deputy Director, COEP  
Prof. D. N. Malkhede, Advisor, AICTE, New Delhi  
Prof. S. N. Sapali, Co-ordinator, QIP Centre, COEP  
Prof. D. W. Pande, Dean-R&D, COEP  
Prof. M. S. Sutaone, Dean-Academics, COEP  
Prof. S. L. Patil, Dean-Student Affairs, COEP  
Prof. M. J. Rathod, Dean-Alumni and International Relations, COEP  
Prof. R. R. Joshi, Dean-Quality Assurance, COEP  
Dr. Rajiv B., Head, DPEIM, COEP

## Course Coordinator: Dr. Sudhir Madhav Patil,

Assistant Professor,  
Department of Production Engineering and Industrial Management,  
College of Engineering Pune

## Course Co-coordinator: Dr. Maneetkumar R. Dhanvijay,

Assistant Professor,  
Department of Production Engineering and Industrial Management,  
College of Engineering Pune

## Members from the Department:

Prof. (Mrs.) N. R. Rajhans, Professor  
Dr. (Mrs.) A. V. Mulay, Associate Professor  
Dr. M. D. Jaybhaye, Associate Professor  
Dr. B. U. Sonawane, Associate Professor  
Dr. P. D. Pantawane, Assistant Professor  
Mr. S. U. Ghunage, Assistant Professor  
Dr. S. S. Anasane, Assistant Professor  
Mr. J. S. Karajagikar, Assistant Professor  
Mr. M. N. Shaikh, Assistant Professor

## Venue:

Department of Production Engineering and Industrial Management,  
College of Engineering Pune

## Contact for Correspondence:

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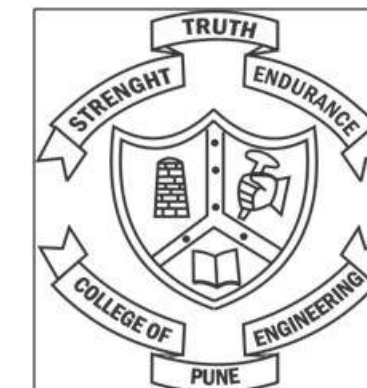
## AICTE Sponsored

One Week Faculty Development Programme

On

**"MECHATRONICS AND INDUSTRIAL AUTOMATION"**  
(Under QIP)

**26<sup>th</sup> to 30<sup>th</sup> March 2018**



**Dr. Sudhir Madhav Patil**  
Coordinator

**Dr. Maneetkumar R. Dhanvijay**  
Co-coordinator

**Dr. Rajiv B.**  
Head,  
Department of Production Engineering and  
Industrial Management  
College of Engineering Pune

**Prof. B. B. Ahuja**  
Director  
College of Engineering Pune

## Organized by

**Department of Production Engineering and  
Industrial Management [DPEIM]**

**College of Engineering Pune [COEP]**  
(An Autonomous Institute of Government of Maharashtra)  
Wellesley Road, Shivaji Nagar,  
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Website: [www.coep.org.in](http://www.coep.org.in)

### About the FDP:

Mechatronics is a multidisciplinary field of science that includes a combination of mechanical engineering, electronics engineering, computer engineering, telecommunications engineering, systems engineering and control engineering. An expert in Mechatronics field unites the principles of mechanics, electronics, control and computing to generate a simpler, more economical, efficient and reliable automated system. Mechatronics has been evolving in industry and education since its definition in 1969 and is now widely recognized around the world. Mechatronics has emerged over the past few years as a discipline in its own right. To enhance the employability and the competency of the students, the Mechatronics, Industrial Automation and Industrial Fluid Power teachers must know the industrial practices and the cutting edge technologies in this area. The present FDP is an attempt to fulfil this need through theory, demonstrations and industrial visits.

### FDP Objectives:

- To increase the awareness of Mechatronics Field
- To know the building blocks of Mechatronics System
- To analyze, model and simulate the Mechatronics System
- To learn Mechatronics System Design
- To be aware of the advances in the field of Mechatronics
- To be acquainted with the role of fluid power in Mechatronics
- To identify the Role of Industrial Automation in Smart Technology Enabled Manufacturing
- To foresee requirements of IoT based Mechatronics Systems

### Course Contents/Highlights:

- Basics of Mechatronics and Industrial Automation
- Sensors, Transducers and Actuators
- Programmable Logic Controllers
- Fluid Power Systems and Factory Automation
- Mechatronics System Interfacing using LABView
- Modeling and Simulation of Mechatronics Systems
- Role of Automation Studio Software in Mechatronics System Design
- Industry 4.0
- Smart Technology Enabled Manufacturing- Role of Industrial Automation
- Industrial Visits to nearby Mechatronics Practicing Companies

### Important Dates:

- Last Date for Online Registration : Wednesday, 14<sup>th</sup> March 2018  
Link:- <https://goo.gl/forms/uFteKgF9XmC78RNb2>
- Last date for the submission of scanned copy of registration form : Friday, 16<sup>th</sup> March 2018
- Notification of Selection : Monday, 19<sup>th</sup> March 2018
- Last date for Receipt of hard copy of Registration Form and DD towards Caution Money Deposit : Thursday, 22<sup>nd</sup> March 2018
- Commencement of FDP : Monday, 26<sup>th</sup> March 2018

### How to Reach:

1. By Air: Pune International Airport (10 Km)
2. By Train: Pune Railway Station (3 Km)
3. By Bus: Shivajinagar Bus Stand (1 Km)
4. By Bus: Swargate Bus Stand (5 Km)

### Resource Persons:

- Dr. Sunil Jha**  
Associate Professor, Mechanical Engg. Dept., IIT Delhi
- Prof. Prasanna S. Gandhi**  
Professor, Mechanical Engg. Dept., IIT Bombay
- Prof. Sudhir D. Agashe**  
Professor, Department of Instrumentation and Control, COEP
- Mr. Sumit Bansode**  
Senior Application Engineer, Twin Engineers Pvt. Ltd., Bhosari, Pune
- Mr. Pravin Bell**  
Chief Technical Officer, Indiasoft Technologies Pvt. Ltd., Pune
- Dr. Sudhir Madhav Patil**  
Assistant Professor, DPEIM, COEP
- Dr. Maneetkumar R. Dhanvijay**  
Assistant Professor, DPEIM, COEP

Experts from Industry, R & D Laboratories, and Faculty from IITs, COEP and other premier Institutions will be delivering the talks.

### Eligibility Criteria:

Faculty members of any government/private Engineering Institutions with relevant background and Mechatronics and Fluid Power as an area of interest are eligible for this course. Industry personnel/PhD Scholars/Researchers are also eligible. The seats are limited, and the selection will be made on 'First come first serve' basis. Organizing committee's decision will be final during selection of participants.

### Registration:

**No course fee is charged for participants sponsored by AICTE approved Institution.** Applicants from AICTE approved Engineering and Polytechnic Institute should register online and forward scanned copy of registration form, duly signed and stamped by the sponsoring authority, to the coordinator before the due date. The candidates will be intimated regarding their selection by Email/Phone/SMS. The selected candidates should send to the coordinator the hard copy of their registration form duly signed and stamped by the sponsoring authority along with Caution Money Deposit of Rs. 2000/- in the form of DD. The above amount will be refunded to the participants if he/she attends the course. In case a participant does not attend the course, the above amount will be forfeited. Participants among first thirty, shortlisted from Academia are only entitled for TA.

Participants from Industries and other organization may send the application form along with registration fee Rs. 5000/- to the coordinator. Such participants should bear all expenses towards TA/DA.

The payment is to be made in the form of Demand Draft (Only) drawn from any nationalized bank in favour of "**Director, College of Engineering Pune**" payable at Pune.

The registration fee includes course material, registration kit, tea and snacks and working lunch on all the days during the course.

**Please visit the web link <https://goo.gl/forms/uFteKgF9XmC78RNb2> for filling the online registration form.**

### Transport and Accommodation:

Outstation participants among first thirty, shortlisted from Academia are entitled for Second Class (Sleeper Class) railway fare to and fro by the shortest route from their college to COEP Pune. Limited on-campus free of cost accommodation is available on sharing basis in the COEP hostel only for outstation participants.

## Department of Production Engineering and Industrial Management

### College of Engineering Pune (An Autonomous Institute of Government of Maharashtra)

AICTE Sponsored One Week Faculty Development Programme  
on  
**"MECHATRONICS AND INDUSTRIAL AUTOMATION"**  
(Under QIP)  
26<sup>th</sup> to 30<sup>th</sup> March 2018

### REGISTRATION FORM

Name : \_\_\_\_\_

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

Department : \_\_\_\_\_

Name of the Institute/Company : \_\_\_\_\_

Address for Correspondence : \_\_\_\_\_

Contact No. : \_\_\_\_\_

What's App No. : \_\_\_\_\_

E-mail Address : \_\_\_\_\_

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

Subjects Taught : \_\_\_\_\_

Experience in Teaching/Research/Industry : \_\_\_\_\_

Details of Demand Draft : \_\_\_\_\_

DD No. : \_\_\_\_\_

DD Date : \_\_\_\_\_

Accommodation Required : Yes / No

### SPONSORSHIP CERTIFICATE

Dr./Mr./Mrs./Ms. \_\_\_\_\_, is an employee of our Institute/Organization and will be permitted to participate full time in the one week Faculty Development Programme on '**MECHATRONICS AND INDUSTRIAL AUTOMATION**' during 26<sup>th</sup> to 30<sup>th</sup> March 2018 at College of Engineering Pune, if shortlisted.

Signature of Head of Institution (with Seal)