

About Institute

The MES group after establishing its name in the field of education with the experience of over 50 years, ventured into the field of Engineering education with the establishment of PCE in the year 1999 in Panvel. Subsequently, after successfully running PCE for more than a decade, MES set up the Pillai HOC College of Engineering and Technology (PHCET) at Rasayani. PHCET offers Undergraduate (Bachelor of Technology, B-Tech), Postgraduate (Master of Technology, M. Tech.) and Doctorate programs in Computer, Civil, ETRX and Mechanical.

PHCET, Rasayani is an Autonomous Institute and Accredited with an 'A+' grade by NAAC. Four of our UG Programs viz. Computer Engineering, Civil Engineering, Information Technology and Mechanical Engineering have been accredited by the NBA.

Mechanical Engineering Department

The Department came into existence in the year 2009. Department has a team of qualified and experienced faculty members having specialization in various areas. At present, the department is conducting a UG Program (B. Tech in Mechanical Engineering), a PG program (M. Tech in Mechanical Engineering) and PhD program as well. Mechanical Engineering Department has been NBA accredited since 2017.

For more details, please visit:

Pillai HOC College of Engineering and Technology
Raigad, Via Panvel (Navi Mumbai), Rasayani, Tal- Khalapur,
Dist. Raigad, 410 207, Maharashtra, India.

Website - <https://phcet.ac.in/>

Location - <https://maps.app.goo.gl/MZksQyZST4nf1Dkh8>

Tel- 02192 – 669000 / 669001 / 669003

Patrons

Dr. K.M. Vasudevan Pillai, Chairman & CEO, MES Group of Institutions

Dr.(Mrs) Daphne Pillai, Secretary, MES Group of Institutions

Advisory Committee

Dr. Priam Pillai, COO, MES Group of Institutions

Dr. Franav Pillai, Treasurer & Dy. CEO, MES Group of Institutions

Dr. Jagdish W. Bakal, Principal, PHCET Rasayani

Local Organizing Committee

Dr. G.V. Patil, Professor & HOD of Mechanical Engineering

Dr. M. D. Nadar, Professor, Mechanical Engg

Dr. Suhas Uthale, Asso. Professor, Mechanical Engg

Dr. Amar Jadhav, Asso. Professor, Mechanical Engg

Dr. Rahul Warghane, Asst Professor, Mechanical Engg

Mr. S. N. Kadam, Asst Professor, Mechanical Engg

Mr. Atul Jade, Asst Professor, Mechanical Engg

Mr. Manoj Jadhav, Asst Professor, Mechanical Engg

Mr. Swapnil Nawale, Asst Professor, Mechanical Engg

Mr. Hemant Patil, Asst Professor, Mechanical Engg

Mr. Vaibhav Bhagat, Asst Professor, Mechanical Engg

Mr. Shashi Bhushan, Asst Professor, Mechanical Engg

Mr. Abhijit Aurangabadkar, Asst Professor, Mechanical Engg

Ms. Ashwini Kadam, Asst Professor, Mechanical Engg

Ms. Sayali. Kulkarni, Asst Professor, Mechanical Engg

Mr. Aditya Shinde, Asst Professor, Mechanical Engg

Mr. Saurabh Sirsikar, Asst Professor, Mechanical Engg

Mr. Vivek Meshram, Asst Professor, Mechanical Engg

Contact Information

Dr. M. D. Nadar

Coordinator

Professor

Dept. of Mech. Engineering

PHCET, Rasayani.

8652240002

mdnadar@mes.ac.in

Dr. G. V. Patil

Co - Coordinator

Professor & Head

Dept. of Mech. Engineering

PHCET, Rasayani.

9224281153

gpatil@mes.ac.in

Mr. Hemant Patil

Assistant Professor,

Dept. of Mechanical Engineering, PHCET Rasayani

9028626803, hemantpatil@mes.ac.in

AICTE Training and Learning (ATAL) Academy



2 Weeks Advanced
Faculty Development Program

On

**“Recent Trends and Digital
Techniques in Manufacturing
Systems”**

(1st December 2025 -13th December 2025)



Organised By

**Pillai HOC College of Engineering and
Technology, Rasayani
(Autonomous)**

(NAAC A⁺ & NBA Accredited)

Supported By



Invitation

The Innovation, Incubation, and Entrepreneurship Cell of Mahatma Education Society's Pillai HOC College of Engineering and Technology, Rasayani, cordially invites you to participate in the **Advanced Faculty Development Program (FDP)**, organized in association with AICTE, ATAL Academy, on:

“Recent Trends and Digital Techniques in Manufacturing Systems”

Dates: 1st December 2025 – 13th December 2025

Introduction

This **Advanced FDP** focuses on modern digital technologies used across **human resources, production, sales, marketing, and distribution** within Industry 4.0 frameworks.

The program aims to provide a deep understanding of **efficiency-enhancing technologies** currently deployed in industries, including **Machine Learning, Blockchain, Robotics, and Cybersecurity**. It is designed to help faculty members across interdisciplinary engineering fields **update their knowledge** in alignment with current industrial practices.

Eligibility of Participants

The faculty members of the AICTE approved institutions, research scholars, PG scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry, etc.) and staff of host institutions are eligible to attend the program.

Online test will be conducted on the last day. Those who have attended 80 % or more complete sessions and score more than 70% in the test will be issued a digital certificate by the ATAL Academy.

Accommodation facility is available for participants from outstation at nominal charge.

Objectives

1. To create awareness about recent trending digital technologies used in Industry 4.0.
2. To empower the academic movement for developing academic curriculum in accordance with Industry 4.0.
3. To initiate and to promote innovative frame works at academic institutions.
4. To explore industry 4.0 framework components and to correlate with traditional manufacturing systems.
5. To enable the research scholars, faculty members and industry for state- of- the- art collaborative research.
6. To update faculty members knowledge of trending industry 4.0 techniques used in industrial applications.
7. To make conversant in the area of manufacturing digital technology and industry 4.0.

Course Outcomes

1. Understand the transformative impact of Industry 4.0 on manufacturing systems, supply chains, and industrial operations.
2. Gain insights into three key changes driven by Industry 4.0 in industrial environments:
 - A. Digitization of production
 - B. Automation of processes
 - C. Integration of manufacturing units with extended supply chains
3. Appreciate how Industry 4.0 enhances transparency, integrity, and security of industrial information.
4. Understand the role of Blockchain technology in improving transparency in manufacturing and business processes.
5. Learn to leverage real-time data analytics, visibility, automated monitoring, productivity, and competitiveness offered by Industry 4.0.
6. Explore the implementation and practical applications of IoT in manufacturing systems.

Experts

Prof. Nitesh Yelve, Asst. Professor IIT Mumbai

Dr. Prashant Kharat – Dy. Director AICTE, New Delhi

Dr. Lalit Singh, Senior Scientist, Head, Artificial Intelligence Applications BARC Mumbai

Dr.S.M.Joshi, Principal, PCE Panvel

Dr.Ashok Matani, Retd. Professor, Govt. College of Engineering, Jalgaon

Dr. Dhanraj P.Tambuskar, Dean SBU Pune

Dr. Irfan N. A. Professor, Somaiya University, Mumbai

Mr.Shisir Gupta Head, Power electronics and automation, Schneider Electric India Pvt. Ltd

Dr.Vaibhav Narwane, Asso. Professor, Somaiya University, Mumbai

Dr.Satish kumar.L.Varma, Asso. Professor, Somaiya University, Mumbai

Dr. A.S.Rao, Retd. Asst. Professor, Ex VJTI Mumbai

Dr.Debdatta Damodhar Acharya Director Industry Pune

Sri.Prem Gajpal Director Advik Hi Tech Pvt Limited Pune

Registration Procedure

Individuals interested to attend this program need to make compulsory online registration on the below-mentioned link:

<https://atalacademy.aicte.gov.in/login>

Steps to register and Apply for FDP-

1. Click on given link above.
2. Create a profile by clicking on “SignUp Now”
3. Already have ATAL log in credentials! Use registered email id and password to log in.
4. Search for name of FDP in **ATAL FDP tab**
5. Click on FDP title and request to participate.
6. Wait for your request to get approved. You will get notified by mail once request is approved.

Shortlisted candidates will be informed through their ATAL profile. Participants are requested to regularly check their ATAL profile.