MIT | Academy of Engineering
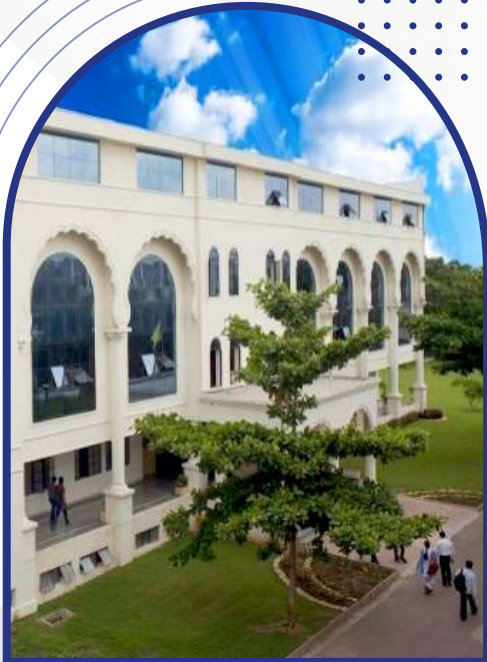(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

🏠 ABOUT THE INSTITUTE 🏠

MITAOE is only the third institute in Pune which has been bestowed with 'Academic Autonomy' by the University Grants Commission (UGC). Academic autonomy is granted only to those institutes that are accredited by NAAC with 'A' grade for all programs. The institute endeavors to impart holistic education to its students in order to contribute to their all round development. Institute is committed for their bright future and hence facilitates them to realize their dreams.

ABOUT THE PROGRAMME

The Faculty Development Program (FDP) is focusing towards Emerging Trends in the field of Internet of Things (IoT). The aim is to enhance the skill of Faculties, Researchers and Students to develop the "Real Time Applications" in the allied domain of Industry 4.0 / 5.0

Objectives

- Awareness about the Fundamental requirements of IoT
- IoT – Design, Development and Challenges
- Importance of data analysis and cyber security for IoT based real time application

Outcome

- Develop an IoT based application using embedded RTOS.
- Analyze industry tools and techniques for IoT based projects.
- Criticize block-chain data security and

Eligibility

The faculty members of AICTE approved Institutions, Universities, Research Scholars; participants form Industry and professionals from R&D labs. Number of participants is limited to 50. There is no course fee and preference will be given to new participants. Outstation participants from AICTE approved institutions will be given TA/DA and accommodation as per AICTE/Institute norms. Selection will be done based on first-cum-first serve basis and the confirmed candidates will be notified immediately

REGISTRATION PROCEDURE

Registration has to be done only through,

https://atalacademy.aicte-india.org/

For more information, kindly visit

https://aralacademy.aicte-india.org/FAQs

Expert Sessions

Session 1 – IoT Fundamentals, design & Architecture

Session 2 – IoT Communication Models

Session 3 – Cloud computing – Infrastructure concepts & IAAS, PAAS, SAAS

Session 4 – Industry Tools & Practices

Session 5 – Field challenges in IoT application implementation

Session 6 – Discussion on Industry 4.0 / 5.0 Case studies

Session 7 – e- F@ctory Japanese Prospective of Smart Factories

Session 8 – Key aspects of Block-chain Technology

Session 9 – Block-chain and Internet of Things (IoT)

Session 10 – Central Bank Digital Currencies (CBDCs) – A case study

Practical sessions/Labs : Edge Device (IOT) development with Node MCU IOT Communication Design and implementation (using MQTT protocol) IOT Orchestration / Middleware implementation using No-Code Tools

Data Visualization Tools - Grafana (Open Source Industry-Standard Tool) Field Challenges - Practical Exercise & Real-Industry Case Study

Industrial Visit to IoT Industry

EMINENT EXPERTS

- **Abhijeet Deogirikar,** Founder & CEO, Copper Cloud IOTech Pvt. Ltd.,
- **Vilas Deogirikar,** Copper Cloud IOTech Pvt. Ltd.,
- **Bharatkumar Chatla**, Seattle, USA
- **Sujata Tilak**, Managing director, Ascent Intellimation Pvt. Ltd.
- **Amit Saxena**, Project manager & Team Leader, The alliance Solution, Pvt. Ltd Pune
- **Parikshit Godbole**, Associate Director, Centre for Development of Advanced Computing
- **Vinod Joshi,** Director, Founder and Mentor - Intellect Process Solutions
- **Sunil Mehta**, General Manager, Mitsubishi Electric India Pvt Ltd
- **Avinash Keskar**, Senior Professor, VNIT Nagpur
- **Seemanti Saha**, Assistant professor, NIT Patna
- **Gaurav Varshney**, Assistant professor, NIT Patna
- **Mahesh Goudar**, Professor, MIT AOE Alandi Pune
- **Prachi Rajarapollu**, Associate Professor, MIT AOE Alandi Pune

ABOUT THE DEPARTMENT

The School offers a four-year course culminating in the Bachelor of Technology (B.Tech) degree in Electronics and Telecommunication Engineering and Electronics Engineering. Both the programs are accredited by NBA for the excellence in academics, research, and administration. The School of E&TC Engineering is dedicated to the overall development of its students through joyful learning and club activities.

VISION

To develop the students towards an exemplary career in Telecommunication and its cognate disciplines, possessing a sound social awareness, sense of responsibility, and moral ethos.

MISSION

- To develop the Department into a well-established education hub in the domain of Electronics & Telecommunication engineering.
- To provide students with a multi-faceted learning environment complemented by adequate engineering practice and research, preparing them to solve real-life engineering problems.
- To facilitate inclusive growth of all its student community and enabling them to be leaders of tomorrow.