

IMPORTANT INFORMATION



PROGRAM DATES

03 August 2026 – 08 August 2026



VENUE

Department of Robotics and Automation
Manakula Vinayagar Institute of Technology
Kalitheerthalkuppam, Puducherry – 605 107



REGISTRATION DETAILS

- ✓ No Registration Fee
- ✓ Register through **AICTE ATAL Portal**
• www.aicte-india.org/atal



ELIGIBILITY

Faculty Members, Research Scholars, PG Students, and Industry Professionals in:

- ✓ **Robotics & Automation**
- ✓ Electronics & Electronics
- ✓ Mechanical / Mechatronics
- ✓ Mechanical / Electronics
- ✓ Related Engineering Fields



KEY FEATURES

- ✓ AICTE ATAL E-Certificate
- ✓ Minimum 80% Attendance Required
- ✓ Hands-on Training Sessions
- ✓ Industry Expert Lectures
- ✓ Industrial Visit Included



CONTACT



Coordinator: Dr. T. Manochandar - +91 73732 27652

Co-Coordinator: Dr. V. Govindhan - +91 79047 88969



NOTE: Selection based on first-come, first-served

- Limited seats: 50 Participants only
- Certificate awarded based on **performance & participation**

ABOUT THE INSTITUTE

Manakula Vinayagar Institute of Technology (MVIT), established in 2008 under Sri Manakula Vinayagar Educational Trust, is a premier **autonomous** institution committed to delivering quality technical education and fostering innovation.

The institute is approved by AICTE, New Delhi, affiliated to Pondicherry University, and accredited by NAAC with 'A' Grade and NBA.

Located in a 75-acre integrated campus at Puducherry, MVIT offers world-class infrastructure including advanced laboratories, digital library, research centres, and modern learning facilities.

The institution promotes innovation and industry collaboration through Centres of Excellence with leading organizations such as Google, IBM, Cisco, and Microsoft.



- ✓ **75-Acre Smart Campus**
- ✓ **NAAC 'A' Grade & NBA Accredited**
- ✓ **Centres of Excellence (Google, IBM, Cisco)**
- ✓ **Strong Industry Collaboration (50+ MoUs)**
- ✓ **Active R&D & Startup Incubation**
- ✓ **Excellent Training & Placement Support**

AICTE Training and Learning (ATAL) Academy

SPONSORED

Faculty Development Programme (FDP)



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

An Autonomous Institution

Affiliated to Pondicherry University, Approved by AICTE, New Delhi,
Accredited by NAAC with 'A' Grade
Kalitheerthalkuppam, Puducherry – 605 107.



INDUSTRIAL IoT 5.0 WITH ARTIFICIAL INTELLIGENCE

Transforming Industry 4.0 into Intelligent Industry 5.0

03 August – 08 August 2026



Organized by

Department of Robotics and Automation

Puducherry, India

PROGRAM SCHEDULE



- Day 1:** Inauguration
- Introduction to Industrial Automation 5.0
 - Industry 4.0 Concepts & Sensors



- Day 2:** PLC Architecture & Programming
- SCADA Systems
 - Industrial Communication Protocols



- Day 3:** Industrial Robotics
- Robot Programming
 - Automation Case Studies



- Day 4:** Artificial Intelligence in Automation
- Machine Learning Basics
 - Predictive Maintenance



- Day 5:** IoT & Smart Manufacturing
- Digital Twin Technology
 - Industrial Visit



- Day 6:** Advanced Topics & Expert Sessions
- Project Discussion
 - Valedictory Session



TARGET PARTICIPANTS

- Faculty Members
- Research Scholars
- PG Students
- Industry Professionals

From disciplines such as:

- Robotics & Automation
- Electrical & Electronics Engineering
- Electronics & Communication Engg.
- Mechanical / Mechatronics
- Related Engineering Fields



FDP HIGHLIGHTS

- ✓ Hands-on Training Sessions
- ✓ Industrial Visit Included
- ✓ Expert Lectures from Academia & Industry
- ✓ Real-Time Case Studies
- ✓ AICTE ATAL E-Certificate

ABOUT THE FDP

This Faculty Development Programme focuses on Industrial Automation with **Artificial Intelligence, Robotics, IoT**, and Smart Manufacturing.

The programme aims to provide both theoretical knowledge and practical exposure to modern industrial systems.

Participants will learn from **academic experts** and industry professionals through **hands-on training** sessions.

KEY TOPICS COVERED

- Industrial Automation & Industry 5.0
- PLC & SCADA Systems
- Industrial Robotics & Robot Programming
- Artificial Intelligence in Automation
- Machine Learning & Predictive Maintenance
- IoT & Smart Manufacturing
- Digital Twin Technology
- Cloud Computing in Automation
- Industrial Communication Protocols

HANDS-ON TRAINING

- PLC Programming & Implementation
- SCADA System Configuration
- Robot Programming Basics
- AI-Based Industrial Applications
- Industrial Case Studies & Problem Solving

OBJECTIVES OF THE FDP



OBJECTIVES OF THE FDP

- ✓ To provide knowledge in Industrial Automation & Industry 5.0
- ✓ To introduce Artificial Intelligence in industrial applications
- ✓ To offer hands-on training in PLC, SCADA, and Robotics
- ✓ To enhance research, teaching, and practical skills
- ✓ To bridge the gap between industry and academia

RESOURCE PERSONS

EXPERT SPEAKERS

Expert Name	Designation	Organization
Dr. N. Pappa	Professor	Madras Institute of Technology
Dr. N. Mahendran	Professor	Saintgits Group of Institutions
Mr. Sivananthan S	Senior Automation Engineer	Cornerstone Solutions
Mr. Karthigeyan V	Senior Design Engineer	Cornerstone Engineering Solutions
Dr. G. Anitha	Associate Professor	Saveetha Institute of Medical and Tech. Sciences
Dr. Sudalaimuthu	Professor & Head	Hindustan Institute of Technology and Sciences
Mr. Balabasker	Founder/CEO	Edifylabs
Dr. Gangadharan	Professor	"NIT, Tiruchi"
Dr. Sindhu	Associate Professor	"VIT, Chennai"