

AICTE TRAINING AND LEARNING (ATAL) ACADEMY



SPONSORED

Faculty Development Programme on

**“AUTOMATING EXCELLENCE:
FDP ON ROBOTICS AND
PROCESS AUTOMATION”**

AUGUST 16th – 22nd, 2024

Organized by

**Department of Electronics (Robotics)
Engineering**



Er. PERUMAL MANIMEKALAI POLYTECHNIC COLLEGE

NBA Accredited

[Chemical, CSE, ECE, EEE, Mech, T&D, E (Robotics)]

ISO 9001:2015 Certified

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About the Institution

Er. Perumal Manimekalai Polytechnic College is approved by All India Council for Technical Education (AICTE) and affiliated to Directorate of Technical Education DOTE, Government of Tamil Nadu. The college has marked its excellence of 28 years, today it has emerged as one of the premier Institutions of this region. Seven departments NBA Accredited, It is an ISO 9001:2015 certified Institution has all state-of-art facilities and provides industry ready employability skills thereby sculpting budding talents into Technical and Management leaders of Tomorrow.

Ever since inception, the college is dedicated to the core of Promotion of quality education with basic philosophy summed up as to be a center of learning, excelling in academics, which imparts knowledge to its students, encourages staff and students to actively take up research and development activities and thus serve the society.

About the Department

Robotics Engineering is the division of Engineering science and Technology of robots.

Robotics engineering is a sub-field of Mechanical & Electronics engineering. Robotics engineers usually design robots and develop new applications for them to make them functional in a broad range of industries.

Robots are used in industries for speeding up the manufacturing process. Robots are also used in variety of Automation Fields.

About FDP:

The field of Robotics has now gained immense popularity in respect of dealing with problems in different disciplines all over the world.

This FDP is designed to provide knowledge on the basics and recent developments in Robotics, applications and its allied research fields. This program is also aimed to provide hands-on experience on development and testing of mobile robots in real time environment.

Since next generation industries need engineers with interdisciplinary attitude and experience to meet the future demands, also to explore the potential areas and the significance in the fields of robotics and automation.

Outcomes of FDP:

By the end of these training, participants will be able to,

- ❖ Understand global and national challenges and opportunities in the field of Robotic Process Automation
- ❖ Discuss technological advancements in the RPA Tools by appropriate technology interventions.
- ❖ Build perspective and capacity of stakeholders for developing Robotic Process Automation Applications.
- ❖ Share knowledge, skills and best practices on various tools and software in Robotic Process Automation

AICTE Training & Learning Academy (ATAL)

The objective of the academy is to train Faculties, students and research scholars in recent technological developments. In addition, the training will be mandatory for new teachers from 2019 and it will be necessary for existing teachers and assistant teachers while applying for promotions. AICTE is statutory body established in November 1945.

It comes under aegis of Department of Higher Education, Ministry of Human Resources Development. It is national-level council for technical education responsible for planning and coordination of technical education management of education system in the country. It is headquartered in Delhi.

Topics to be Covered:

1. Introduction to Robotics Process Automation and RPA tools.
2. Sensor integration for robotics and automation.
3. Hardware implementation for robotics automation.
4. Electrical Drives and control for robotics & automation.
5. Control system design for robotics & automation.
6. Programming for real time robotics applications.
7. Robotics kinematics.
8. Art of living.
9. Industrial Visit
10. Implementation of national education policy 2020: Challenges and opportunities.
11. Automation in manufacturing.
12. IoT based condition monitoring system.
13. Humanoid robots.
14. Collaborative robots.

Resource Persons:

- Resource persons are invited from the reputed industry and institutions.

Eligibility:

- Faculty members of the AICTE approved institutions, Research Scholars, and Industry professional.

Guidelines:

- No Registration fees
- The faculty members of the AICTE approved institutions, Universities, research scholars, PG Scholars, participants from Government, Industry and Engineers from R&D Labs.
- Eligible participants will be selected based on First Come First Serve (FCFS) basis and selected participants will be intimated via E-mail.
- On the last day of the program an assessment test will be conducted for all registered participants.
- Those who have an attendance of minimum 80% and score more than 60% in the test will be issued a digital certificate.

Scheduled Dates:

Last date for Registration: August 8, 2024

Intimation of Selection: August 12, 2024

Confirmation by Participants: August 13, 2024

General Information:

- No registration Fee.
- Registration must be through ATAL portal (URL: <https://atalacademy.aicte-india.org/>)

(or)



