

## About FDP:

Internet of Things has emerged as an cutting-edge technology with applications in manufacturing, Healthcare, Agriculture, Transport, Mining, Smart cities and many more. This FDP covers the fundamentals of IoT with its architecture, protocols and Real-time Applications. It also covers the overview and programming of the popular IoT platforms like Raspberry Pi. This FDP aims in giving training to the faculty members and research scholars on various aspects of IoT mentioned. The FDP comprises a series of Theoretical Sessions, Practical Sessions, Article Discussion and Industrial Visit. Continuous Comprehensive Assessment of Participants will be made and Certificates will be issued up on achieving at least 70% based on a cumulativeweightage system.

## Topics to be covered:

- IoT processing devices – Arduino, NodeMCU, ESP8266, Raspberry Pi
- IoT Analytics- Think Speak Internet of Things
- Python Programming For IoT
- Data analytics using KNIME software
- IoT and Digital Twin
- Augmented Reality with IoT
- IoT in Smart Cities
- Basic Health Care Applications Using IoT
- Industrial Visit to IIT Technical Research Park
- Hands on Session on IoT Devices
- Stress Management

## Resource Persons:

The course contents will be delivered from a pool of resource persons from leading Industries and prestigious Academic Institutions.

## Who can attend:

Participation in this FDP is open to the faculty members of the AICTE approved Polytechnic and Engineering Colleges, Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.

## Registration Fees: Nil

## Number of seats: 50 (first come, first serve)

## Registration has to be done only through

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

## For more information, kindly visit

<https://atalacademy.aicte-india.org/FAQs>

**Last Date for Registration: 31.07.2024**

**Confirmation for Participation: 01.08.2024**



**MURUGAPPA  
POLYTECHNIC COLLEGE**  
SATHYAMURTHY NAGAR  
CHENNAI -600062

**ATAL SPONSORED  
ONE WEEK  
Faculty Development Programme  
ON**

**“Solving Real-World Problems with IoT:  
A Practical Approach for Educators”**

From  
05.08.2024  
to  
10.08.2024



**Murugappa Polytechnic College** was established in the year 1957, as a Government Aided Polytechnic by AMM Charities Trust in the memory of Dewan Bahadur AM Murugappa Chettiar. The Institution is situated on a 12.5 hectares campus in the western part of Chennai on the Chennai -Tiruvallur High Road and is affiliated to the Tamil Nadu State Board of Technical Education. The Vision of the Institute is to be a World class Institution by imparting Quality Education & Training of International Standards in Engineering and Technology through Continuous Improvement, Team Work, Growth and Innovation. A Murugappa Polytechnic College is Academically Autonomous Institution Offering NBA Accredited Diploma Courses. Now the institution offers 7 programmes to cater the needs of students. The institute is offering Regular and Sandwich Courses.

#### **About Department:**

The FDP is jointly organized by the Departments of EEE & ECE. Both the departments are accredited by NBA. The department of EEE was sanctioned MODROBS by AICTE in the years 2007, 2022. Department of ECE consists of SIEMENS sponsored Electronics Home & Electronics Office labs.

The department consists of qualified staff. The students are motivated by their guidance not only for their academics, but also for industrial & project work. The department of Electrical & Electronics, Electronics and Communication Engineering moves with a vision to produce competent and disciplined Engineers.

#### **AICTE –Training and Learning (ATAL) Academy:**

The main objectives of the ATAL Academy are

- To plan and help in imparting quality technical education in the country
- To support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.
- To stress upon empowering technical teachers & technicians using Information & Communication Technology
- To utilize SWAYAM platform and other resource for the delivery of trainings.
- To provide a variety of opportunities for training and exchange of experiences Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.
- To support policy makers for incorporating training as per requirements

#### **Patron**

**Dr. K.Sudhagar M.E, Ph.D., Principal,  
Murugappa Polytechnic College,  
Chennai**

#### **Coordinator**

**Mr.M.Suresh, M.E (PED), M.E (IE)  
HOD, EEE  
Murugappa Polytechnic College**

#### **Co-Coordinator**

**Mr.E.Senthil Velmurugan, M.E  
Dept. In charge, ECE  
Murugappa Polytechnic College**

#### **Organizers**

1. **Mrs.B.Sharmila, M.E  
Lecturer, ECE**
2. **Mr.M.Manikandan, M.E  
Lecturer, EEE**