

## ELIGIBILITY:

- Faculty members of the AICTE-approved institutions, Research Scholars, and Industry professionals.
- External Participants (traveling more than 20 km on one side to attend the FDPs) who attend at least 90% of the sessions shall be reimbursed for the cost of traveling, with an amount of Rs. 2000/-.
- A working lunch will be provided.
- Accommodation will be provided on request (on payment).

## REGISTRATION INFORMATION:

- Registration must be through the ATAL portal.
- No registration fee.
- Max. No. of Participants: 50 Nos.
- First, sign up at <https://atalacademy.aicte-india.org/signup>.
- After logging in, first fill in General details: Any Identity proof (JPEG File) and NOC from the present organization (PDF file).
- Search and select FDP Title (December 18th - 23rd) and APPLY.

## MODE OF DELIVERY: In-house (OFFLINE).

## REQUIREMENTS TO GET CERTIFICATE:

- Continuous Comprehensive Assessment of Candidates shall be carried out in the following aspects mentioned below.
- Attendance– minimum 80% attendance - (individual)-weightage 20%
- One assessment, combination of MCQs/short answer type/reasoning based, etc. - (Individual) - weightage 10%
- 2 Page Article Summary/per Team - (Team & Individual)- weightage 30%
- Teaching Practice -(Individual)-weightage15 %
- Report/outcome of Industrial visit- (Team) at the last session –weightage 10%.
- Reflective journal - (Individual) - at the last session - weightage 15%

### Chief Patrons

Dr. L. RATHAIAH,  
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Dr. Tamoghna Ojha, SRM AP

Mr. Bhudeb Chakravarti, Former CEO, Muzaffarpur

Smart City

Mr. Balakrishna, Efftronics

Mr. Rama Krishna, Efftronics

Ms. Vandana, Safenviron

Mr. Murali, iVIS

### IMPORTANT DATES:

Last Date of Registration:

**13th December'23**

Announcement of selected candidates:

**15th December'23**

Schedule of the Event:

**December: 18th-23rd, 2023**

### Chief Guest

Dr. B.V. Ramana Reddy  
Director, NIT Kurukshetra

### Coordinator

Prof. N. Usha Rani  
Dean, SEECE

### Co Coordinator

Mr. M. Vamshi Krishna  
Asst. Professor, ECE

### Organizing Team

Dr. Sharad Kumar Tiwari,  
Dr. V. Vijayaraghavan,  
Dr. M. Laavanya,  
Dr. Aswini Samantray,  
Dr. Rakcinpha Hatibaruah,  
Dr. Ashutosh Kumar Dixith



AICTE TRAINING AND LEARNING (ATAL)  
ACADEMY SPONSORED

One-Week OFFLINE Faculty Development  
Program on

## INTEGRATED IoT AND MACHINE LEARNING METHODS FOR SMART, SUSTAINABLE CITIES

*"Smart Cities are those who manage their resources efficiently. Traffic, public services, and disaster response should be operated intelligently to minimize costs, reduce carbon emissions, and increase performance."*



December 18 - 23, 2023

Organized by

Department of Electronics and  
Communication Engineering



**VIGNAN'S**  
Foundation for Science, Technology & Research  
(Deemed to be UNIVERSITY)

-Estd. u/s 3 of UGC Act 1956



Vadlamudi, Guntur - 522 213, Andhra Pradesh, India  
Tel : +91 863 2344 700 | [www.vignan.ac.in](http://www.vignan.ac.in)

## About the University:

Vignan's Foundation for Science, Technology, and Research is an institute that provides quality education in a diverse and intellectually stimulating environment. It imparts value-added training to students to make them competent and inspired engineers. The institute celebrates the power of knowledge, cultivates vision, and encourages new ideas, besides aiming to inculcate human values and build awareness about the self and society around it. The institute is well known for its dedicated faculty, state-of-the-art infrastructure, and excellent placement record.

As a university, it is in the process of improving its standards to the level of a global technical institution. The latest curriculum has been prepared after consulting the institute's illustrious alumni working worldwide, veterans from industry, and distinguished academics possessing a rich teaching and research background. Living up to its motto, 'Technology with a Human Face', the institution imparts knowledge and skills while instilling human values and awareness about self and society. In the recent nationwide survey of Indian universities carried out by NIRF, VFSTRU was placed at 95th rank. The university is ISO-certified and has been accredited by the NBA and NAAC 'A+' grades.

## About the ECE Department:

The Department of ECE was established in 1997 to start a B.Tech program affiliated with JNT University, Hyderabad. The first batch of students graduated from the department in the year 2001. A PG leading to an M.Tech in 'Embedded Systems' was introduced in 2006.

Consequent to the establishment of JNT University in Kakinada, the affiliations of both programs were shifted to the new Deemed University from 2008 onwards. NBA accredited the undergraduate program Electronics and Communication. Today, it is one of the leading educational institutions in the country in Electronics and Communication Engineering and is now named the Department of ECE. The department of ECE offers B.Tech., M.Tech., and Ph.D. programs.

## ATAL ACADEMY:

The AICTE Training and Learning (ATAL) Programme is an initiative by AICTE that aims at empowering faculty to achieve goals of higher education such as access, equity, and quality. This program is designed to fulfill the need to train the young generation in the skill sector and have faculty and technicians trained in their respective disciplines. It was felt that training with the latest tools and technologies is vital to keeping an institute competitive and productive. Training is required to increase the knowledge and skills of students and make them more employable to acquire global competencies. It also transforms them to harmonize with society and, most importantly, to make them good citizens of the country.

## Need for Smart Cities:

The global population has entered the peak phase of modernization, which involves easy access to cutting-edge technology. If you are living in an urban setting, you are already surrounded by an intelligent network of interconnected gadgets that are part of your daily routine. The idea of a 'smart city' can be defined as a sustainable framework that comprises information, data, and communication technologies to create and organize practices that smartly support urbanization.

These technologies can absorb the various demands of urbanization through the delivery of innovative and smarter options aimed at comfortable living.

## Objectives of the FDP:

- The objective of this FDP is to understand the smart, sustainable city through the use of IoT and ML to improve the quality of life, efficiency of urban operations and services, and competitiveness while ensuring that it meets the needs of present and future generations with respect to economic, social, and environmental aspects with respect to:
  - Smart transportation and mobility
  - Smart metering and energy management
  - Greenhouses
  - Advances perspective's challenges in standardization of IoT and ML in smart cities
- A smart city leverages the ICT infrastructure in an adaptable, refillable, scalable, accessible, secure, safe, and resilient manner to Improve the quality of life of its citizens. Ensure tangible economic growth, such as higher standards of living and employment opportunities, for its citizens.
- Improve the well-being of its citizens, including medical care, welfare, physical safety, and education.

## Contact Details:

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Assistant Professor,

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Link: <https://vignan.ac.in/atalfdp/>