

AICTE Training And Learning (ATAL) Academy Programme
on
Internet of Things

(5th December 2019 to 9th December 2019)



Organized by

Indian Institute of Information Technology, Design and Manufacturing
(IIITDM) Kurnool
(An Institute of National Importance under MHRD, Government of India)
Kurnool – 518007, Jagannathgattu, Andhra Pradesh, India

Sponsored by

All India Council for Technical Education, Government of India

About the Institute

Indian Institute of Information Technology, Design and Manufacturing (IIITDM) Kurnool was announced in 2014 after receiving the assent of the President of India to the Institutes of Information Technology Act, 2014, and its subsequent publication in the Gazette of India, Extraordinary, Part – II, Section I on December 08, 2014. The Institute was announced by the Government of India to give effect to its obligation under the Andhra Pradesh Reorganization Act, 2014. IIITDM Kurnool is fully funded by MHRD and youngest among the 5 centrally funded IIITs, and launched its academic program with the support of its mentor Institute, IIITDM Kancheepuram on August 2015 from the Kancheepuram campus. Consequent upon the approval of parliament, IIITDM Kurnool was accorded the status of Institute of National Importance by making an amendment in the IIIT Act, 2014 on August 03, 2017. In 2015, the Andhra Pradesh Government allocated an area of 151 acres for the establishment of a permanent campus in Kurnool. The Institute started functioning at its permanent campus at Kurnool from July, 2018.

Currently, the Institute offers admissions to B. Tech. program in Computer Engineering, Electronics and Communication Engineering with Specialization in Design and Manufacturing and Mechanical Engineering disciplines. The Institute is going to offer M. Tech. in Data Analytics and Decision Sciences, Electronic System Design and Smart Manufacturing specializations from the next academic year. The Institute offers admission to Ph. D. program in Computer Engineering, Electronics and Communication Engineering, Mechanical Engineering and Science (Physics and Mathematics) disciplines. The Institute faculty members are highly dedicated to carrying out interdisciplinary researches and design-oriented projects in line with the mission and vision of the Institute.

Course Content

1. Introduction to Internet of Things and its Design Principles
2. M2M and IoT Technology
3. Elements of IoT
4. Hands on: Arduino Board, its API Structure and Simple Programs
5. Hands on: Controlling LED with LDR, Display of Real-Time Sensor Data and Rain Detection System
6. IoT Application Development
7. Cloud IoT
8. Hands on: Raspberry Pi, its Architecture and Simple Programs
9. Application of Blockchain in IoT
10. Security Issues in IoT
11. Python Program in Raspberry Pi
12. Android App and its Integration with Node MCU
13. Case Studies of Internet of Things – I
14. Case Studies of Internet of Things – II

Who Should Attend

The programme is open to the faculty of Engineering Universities/Institutes/colleges, researchers, practitioners, industry personnel and Ph. D. students.

Sample Time Table

Name of the Institute/Organization: Indian Institute of Information Technology, Design and Manufacturing (IIITDM) Kurnool

Title of the Workshop: Internet of Things

From 05/12/2019 **To** 09/12/2019

Schedule Plan

Dates	10:00 AM to 11:30 AM		12:00 PM to 01:30 PM		02:30 PM to 04:00 PM	
05/12/2019	Registration and Inauguration	Tea	Session 1 Introduction to Internet of Things and its Design Principles Prof. Sudip Misra Professor	Lunch	Session 2 M2M and IoT Technology Prof. Sudip Misra Professor	Tea
06/12/2019	Session 3 Elements of IoT Dr. Suraj Sharma Asst. Prof.		Session 4 Hands on: Arduino Board, its API Structure and Simple Programs Dr. Suraj Sharma Asst. Prof.		Session 5 Hands on: Controlling LED with LDR, Display of Real- Time Sensor Data and Rain Detection System Dr. Suraj Sharma Asst. Prof.	
07/12/2019	Session 6 IoT Application Development Prof. D. V. L. N. Somayajulu Professor		Session 7 Cloud IoT Dr. Sanjaya Kumar Panda Asst. Prof. and Head		Session 8 Hands on: Raspberry Pi, its Architecture and Simple Programs Dr. Eswaramoorthy K. V. Asst. Prof.	
08/12/2019	Session 9 Application of Blockchain in IoT Dr. Nitin S. Singha Asst. Professor and Head		Session 10 Security Issues in IoT Dr. Nitin S. Singha Asst. Professor and Head		Session 11 Python Program in Raspberry Pi Dr. Sanjaya Kumar Panda Asst. Prof. and Head	
09/12/2019	Session 12 Android App and its Integration with Node MCU Prof. Bhat Dittakavi CEO		Session 13 Case Studies of Internet of Things – I Prof. Bhat Dittakavi CEO		Session 14 Case Studies of Internet of Things – II Dr. V. Sri Kumar Group Manager	

Registration Link:

<https://docs.google.com/forms/d/e/1FAIpQLSfLN98idrHENuMzgChSolKjCzkCKLRpLvnj3sIO0Wo1cp0Azw/viewform?vc=0&c=0&w=1>

Instructions:

- The participants to the programme will be faculty and Ph. D. Scholars from AICTE approved technical institutions.
- There is no registration fee from any participant. No TA/DA will be paid to any participant.
- Participants will have to make their own stay arrangement during the five days.
- Only tea during sessions/working lunch will be provided to the participants.
- If selected, I agree to abide by the rules and regulations of the programme and IIITDM, Kurnool, and shall attend the course for the entire duration.
- On completion of the programme on all the days, participants will be awarded a certificate of participation.
- This application (hard copy) must be forwarded through the Head of the Institution/Department to the Coordinator.
- The last date for the receipt of duly forwarded application is **16th September 2019**.
- The selected candidates will be informed through e-mail by **20th September 2019**.

Coordinator

Dr. Sanjaya Kumar Panda

Asst. Professor and Head (CSE), and Faculty In-Charge (Academic Affairs)

IIITDM Kurnool

Kurnool - 518007, Jagannathagattu, Andhra Pradesh, India

Mob.: +91-7978685893

Email: sanjayauce [at] gmail [dot] com

Indian Institute of Information Technology, Design and Manufacturing, Kurnool, Andhra Pradesh

(An Institute of National Importance under MHRD, Govt. of India)

AICTE Training And Learning (ATAL) Academy Programme Registration Form

NOTE: The participants to the programme will be faculty and Ph. D. Scholars from AICTE approved technical institutions. There is no registration fee from any participant. No TA/DA will be paid to any participant. Participants will have to make their own stay arrangement during the five days. Only tea during sessions/working lunch will be provided to the participants. On completion of the programme on all the days, participants will be awarded a certificate of participation.

- Yes, I agree
 No

Full Name (in Block LETTER)	
Date of Birth (MM/DD/YYYY)	
Name of College/Institution/University/ Organization	
Designation	
Qualification	
Experience (in Years)	
Area of Interest/Specialization	
Email	
Mobile Number	
Address	
No. of Refresher Courses/Workshops/FDPs Attended	
Programme Name	<input type="checkbox"/> Data Science (21 st – 25 th November 2019) <input type="checkbox"/> Artificial Intelligence (28 th November – 2 nd December 2019) <input type="checkbox"/> Internet of Things (5 th – 9 th December 2019)
Declaration: The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the programme and IIITDM, Kurnool, and shall attend the course for the entire duration. This application (hard copy) must be forwarded through the Head of the Institution/Department to the Coordinator. The last date for the receipt of duly forwarded application is 16th September 2019 .	<input type="checkbox"/> Yes, I agree <input type="checkbox"/> No
Signature of the Candidate	Head of the Institution/Department with Seal