

on

"Internet of Things (IoT)"

Organised By

**Electronics & ICT Academy
IIT Roorkee**



Jan 13, 2018 - Jan 17, 2018

Experts from Academia/Industry

Guest Lecture
(IIT Roorkee
Academia Expert)

Tharun Kumar
(Engineering Manager,
Xtrans Solutions Private Limited
Industry Expert)

Supported by

Ministry of Electronics & Information Technology
Government of India



Venue

**Indian Institute of Technology,
Roorkee**

Objective of the Course

- Overview of IoT.
- Overview of Embedded Technology, Hardware and Sensors.
- Learn connectivity and data integration.
- Learn various IoT cloud platforms available; such as AWS IoT, Ubidots and ARTIK.
- Design and development of IoT applications for various industries.

Benefits and Outcomes of the Course

- Hands-on sessions on various IoT hardware platforms such as Marvell, Cypress, Raspberry Pi, etc.
- Understanding the role of sensors and their connectivity to the hardware platforms.
- Demonstration on how to send data from hardware platform to cloud platform such as AWS IoT, Ubidots, etc.
- Demonstrating real time use cases on various sectors.

At the end of the program, participants will be able to:

- Learning on how to make an object to a smart object with the help of hardware platform, sensors and cloud platforms.
- Understanding the building blocks of IoT at the various stages including production.
- Participants will be able to do prototype project with the real time uses cases.
- Experience the real time data and do analytics on that.

Focus Areas

- Understand the scope of IoT across various industries.
- Demonstrate understanding of IoT and major machine-to-machine (M2M) communication protocols.
- Demonstrate understanding various use cases of IoT.
- Design solutions for integrating smart objects into IoT framework(s).
- Design IoT services for applications, evaluate and analyze performances of IoT systems.
- Design an end-to-end IoT project for demonstrating sensor-cloud integration.
- Review of IoT and related papers.

Program Features

- The program is split into lectures and labs sessions.
- Hands-on experience on basic & advanced-level topics.
- Interaction & learning with experts from academia & industry.
- Certificates to the participants by E&ICT Academy IITR.

Coordinators

Dr. Sanjeev Manhas
(PI, E&ICT Academy,
ECE Dept, IITR)

Dr. Sateesh K Peddoju
CSE Dept.
IIT Roorkee



Who Can Attend ?

Program is open to faculty members/research scholars/PG students from colleges/universities, and industry personnel working in the concerned/allied discipline.

Registration Fee

Faculty members: ₹1500/-

Research scholars: ₹1500/-

Persons from Industry: ₹2500/-

Payment Details

DD in favor of "Dean SRIC IIT Roorkee" payable at Roorkee
"OR"

Make Online Payment by NEFT/RTGS on given detail

Account Name: Research Project, IIT Roorkee

Account Number: 33012172097

IFSC code: SBIN0001069

How to Apply

Step 1: Make Payment

Step 2: Participants may fill registration form through Academy website (<http://eict.iitr.ac.in>).
OR

Step 2: Send a duly filled-in registration form along with Demand Draft to Academy address.

Mr. Prateek Sharma, EICT Academy, ECE Department, IIT Roorkee-247667

Important Dates



**Last Date For Online
Registration:
09th Jan 2018**

**Last Date For Receiving
Application: 10th Jan 2018**



EICT Academy IITR

Electronics and ICT Academy (E&ICT) at IIT Roorkee (funded by Ministry of Electronics and Information Technology) aims to enrich and upgrade teaching and research competences of engineering faculties of institutes/colleges by conducting courses and workshops in fundamentals as well as emerging areas of E&ICT and enabled areas. The programs are conducted by well-known industry partners, resource persons from leading academia and experts from renowned R&D organizations.



Activities of the Academy

- Specialized training on basic and advanced level topics with hands-on experience in the emerging areas of Electronics & ICT.
- Setup the activity centers to conduct FDPs locally at institutes/colleges.
- Curriculum development for the industry.
- Continuing Education Programme for students/working professionals.
- Design, develop and delivery of specialized modules for specific research areas in industry.

Faculty Development Program

on

"Internet of Things (IoT)"

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REGISTRATION FORM

Applicant Name _____

Gender: _____

Category (GEN/OBC/SC/ST): _____

Designation: _____

Name and Address of the
Organizatio/Institute: _____

City/Town: _____

Email: _____

Phone Number: _____

Do you need Accommodation?
(Yes/No): _____

DD Number: _____

Date: _____

Issuing Bank: _____

Payable at: _____

Signature of the Applicant

Contact Us

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