

Electronics & ICT Academy

IIT Roorkee

One Week Short Course/FDP

on

"IoT with cloud applications"

Recognized by AICTE at par with QIP
for recognition/credits



National Institute of Technology
Jalandhar



July 01-05, 2019

Experts from Academia/Industry

Guest Lecture
IIT Roorkee

Mr. V.S. Ramesh
STEPS Knowledge
Services Pvt Ltd. (TI
University Program)

Certificates to participants by E&ICT
Academy IIT Roorkee

Supported by

Ministry of Electronics & Information Technology
Government of India



National Institute of Technology
Jalandhar

Why IoT?

IoT is next Industrial Revolution which is going to change our lives in ways never imagined before. Made up of millions of sensors and devices that generate unending streams of data, IoT is useful to improve our lives and our businesses in a lot of ways. You can explore many real-life examples of IoT devices that are commercially available, and you will have a glimpse of the future of the Internet of Things. This course will help you to gain adequate knowledge on the Internet of Things. You will learn various IoT cloud platforms available such as AWS IoT, Ubidots and ARTIK and also gets hands-on exposure on various IoT hardware platforms such as CC3200, MSP430, and Raspberry Pi, etc.

Objective of the Course

- Establishing basic concepts and key components of Internet of Things.
- Hands-on training in handling IoT building blocks using commercially available components.
- Understanding the interaction between cloud computation and sensors.
- Troubleshooting the errors while implementing IoT for practical applications

Benefits and Outcomes of the Course

- Learning basic building blocks of IoT.
- Learning essential Embedded system basics applicable to IoT.
- Hands-on experience in the wireless interface using RF.
- Hands-on experience in working Wi-Fi certified IoT kit using CC3200 ARM Cortex M432 bit microcontroller.
- Hands-on experience in cloud applications.

Focus Areas

- Overview of IoT and its roadmap, opportunities & challenges in implementing IoT Solutions.
- Connectivity Solutions using CC3200 Wi-Fi accessing HTML page from HTTP web server and interfacing with the microcontroller for control applications.
- Updating real time user location to AT & T cloud platform with map visualization.
- Configuring MQTT client and server using the web browser and Android app.
- Working with CC3200 Wi-Fi certified 32-bit ARM Cortex M4 microcontroller

Program Features

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



Coordinators

IIT Roorkee

• Prof. Sanjeev Manhas, PI, E&ICT Academy
NIT Jalandhar

- Prof. A L Sangal, NIT Jalandhar
- Prof. Harsh Verma, NIT Jalandhar
- Dr. Nonita Sharma, NIT Jalandhar
- Dr. K.P. Sharma, NIT Jalandhar

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/Research scholars: ₹ 1000/-

Persons from Industry: ₹ 1,500/-

How to make payment

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

Online: (<https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=365641>)

Read the instruction for payment before filling the online registration form.

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
Registration :
June 20, 2019**

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 one-week short course/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.

One Week Short Course/FDP

on
IoT with cloud applications



Dates: July 01-05, 2019

REGISTRATION FORM

Applicant Name _____

Gender: _____

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

Designation: _____

Name and Address of the
Organization/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

Electronics and ICT Academy, IIT Roorkee

Roorkee - 247667, (Uttarakhand) INDIA

Ph. +91-1332-28 6457, +91-7078627392

Email: eict@iitr.ac.in, eictiitr@gmail.com

Website: <http://eict.iitr.ac.in>



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