

# Electronics & ICT Academy

## IIT Roorkee

One Week Short Course/FDP

on

"IoT and Machine Learning"

Recognized by AICTE at par with QIP  
for recognition/credits



In Association with

Chitkara University, Himachal Pradesh



December 16-20, 2019

Experts from Academia

Dr. Tapan Gandhi (IIT, Delhi),

Dr. Yashwant Singh (HOD, Central

University, Jammu), Dr. Sunil Pathak

(HOD, Amity University, Jaipur), Dr.

Pramod Singh Rathore (Assistant

Professor, ACERC Ajmer)

Certificates to participants by E&ICT  
Academy IIT Roorkee

Supported by

Ministry of Electronics & Information Technology  
Government of India



Venue

Chitkara University, Himachal  
Pradesh

## Why IoT and ML?

IoT is the next digital revolution which is going to change our lives in ways never imagined before. 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 state of the art of IoT, its application and important implementation issues. You will also get hands-on exposure on various IoT hardware platforms. In the recent years, machine learning has emerged as powerful techniques for solving problem involve huge loads of data. Machine learning provides algorithms and tools that are useful for solving classification and regression tasks in the supervised learning problems.

## Objective of the Course

- The proposed FDP provides an opportunity to discuss and address the experimental, theoretical work and methods in solving problems.
- Exchange and cross-fertilize their ideas, in the fields of Deep Learning and Machine Learning.
- Project-oriented implementation to gain a complete knowledge of a specific application.

## Benefits and Outcomes of the Course

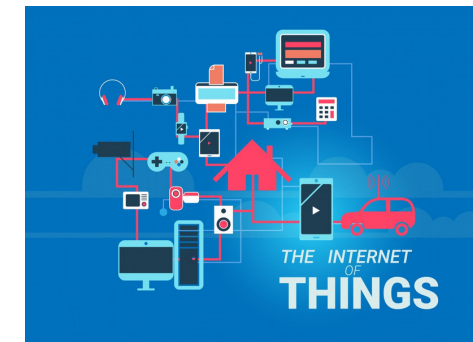
- Enhanced knowledge of fundamentals and advanced topics for Teaching and Research.
- Networking with the people from premier institutions from India and abroad.
- Not only theoretical concepts but also the practical understanding of the concepts of IoT.
- Visiting state-of-the-art research facilities.

## Focus Areas

- Introduction to IOT, history, real life applications, prerequisites of IOT, additional components of IOT.
- Basics of Machine Learning, various types of Machine Learning, application of Machine Learning, various algorithms used in Machine Learning.
- Working with Modules, Train Deep Learning techniques to perform image classification tasks, hands on practice for all participants with working on project using ML.
- Mini project(s) practical implementation.

## 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

- Dr. Sanjeev Manhas, PI, E&ICT Academy  
Chitkara University, Himachal Pradesh
- Mr. Chetan Sharma (Assistant Registrar,  
Department of Student Affairs, Chitkara  
University)

## 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: ₹ 500/-

Research scholars: ₹ 1000/-

Persons from Industry: ₹ 1500/-

Food and Accommodation will be available on self paid basis. No travel allowance will be provided.

## 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:  
December 06, 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 and Machine Learning



Dates: December 16-20, 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

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



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