

Electronics & ICT Academy

IIT Roorkee

One Week Short Course/FDP

on

"Artificial Intelligence-Devices to Systems"

Recognized by AICTE at par with QIP for recognition/credits



August 28-September 01, 2019

Experts from Academia

Dr. Udayan Ganguly
IIT Bombay

Dr. D. Bhowmik
IIT Delhi

Dr. C.S. Thakur
IISc Bangalore

Dr. B.K.Kaushik
IIT Roorkee

Dr. P.P.Roy
IIT Roorkee

Dr. Manan Suri
IIT Delhi

Certificates to participants by E&ICT Academy IIT Roorkee

Supported by

Ministry of Electronics & Information
Technology Government of India



Venue

E&ICT Academy(N-321), ECE
Department, Indian Institute of
Technology Roorkee

Why AI?

Artificial intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems. These processes include learning (the acquisition of information and rules for using the information), reasoning (using rules to reach approximate or definite conclusions) and self-correction. Neuromorphic computing mimicking the human brain is one such wave towards AI capabilities. This course will help participant gain knowledge about the design of artificially intelligent systems from the bottom to the top level. Hardware implementation of such systems with emerging devices will also be dealt.

Objective of the Course

- Overview of key concepts and technologies required for AI systems.
- To present the usage of emerging devices for AI systems.
- Discuss the circuits required for neuromorphic computing.
- Understand various applications of AI systems.

Benefits and Outcomes of the Course

- Participants will understand state-of-the-art AI systems, neural network and hardware implementation of neuromorphic systems.
- The participants will learn in-memory computation and usage of emerging devices for computation.

Focus Areas

- Introduction to Artificially Intelligent Systems.
- Neural Network and Neuromorphic Systems.
- Convolutional Neural Network.
- Emerging Devices for Neuromorphic computing.
- Role of Non-Volatile Memories.

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

Dr. Sanjeev Manhas
Principal Investigator
E&ICT Academy
IIT Roorkee

Dr. B.K. Kaushik
Local Coordinator
E&ICT Academy
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: ₹ 1000/-

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 :
August 16, 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.

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" Artificial Intelligence-Devices to
Systems"



Dates: Aug 28-Sept 01, 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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