

Electronics & ICT (E&ICT) Academy, IIT Roorkee, Uttarakhand 247667 An Initiative of Ministry of Electronics & Information Technology (MeitY), Govt. of India

Dean Academic



Building blocks for 5G communication: IoT, SDR and sensor networks

Organized by Electronics and ICT Academy IIT Roorkee Experts from Academia/Industry

- **Texas Instruments, Industry Experts**
- Keysight Technologies, Industry Experts
- * MATLAB, Industry Experts
- Dr. Meenakshi Rawat (IITR)
- Dr. P.M. Pradhan (IITR)

Eligibility: Faculty members, scientists, research scholars, limited no. of M.Tech, B.Tech (Final Year) in ECE/EE/CS/IT disciplines.

Course Date: April 10-14, 2017

Last Date for Registration: 5th April 2017.

Venue: ECE Dept. IIT Roorkee



Supported By

Ministry of Electronics and Information Technology (MeitY), Government of India

About E&ICT Academy

- * Electronics and Information Communication Technology (E&ICT) Academy is an initiative of MeitY, Ministry of Communications and IT. Govt. of India quality improvement of faculty members, research scholars and post-graduate students.
- * E&ICT Academy IITR is one of the seven such academies at various IITs and NITs approved by Govt. of India.
- * E&ICT Academy IITR aims to bring in depth erudition in the form of theoretical and practical exposure to the trainees.
- Promote development of entrepreneurship adeptness and facilitation of start-ups.

Benefits and Outcomes of the Course

- Job-oriented software defined radio (SDR) applications with the focus on 4G/5G communication.
- Learn basic building blocks of Internet-of-things (IoT) for 5G communication.
- Hand-on-Experience in IoT kits using Wi-Fi environment.
- Distributed signal processing for wireless sensor networks.
- . Enhance employability by training individuals in handling commercial equipment's simulators and (Kevsight Technologies) for software defined radio and hands-on experience in IoT kits (Texas Instruments).

Course Program

- ☐ The program is split into lectures and labs/hands-on sessions.
- ☐ Course evaluation by quizzes and project work.
- ☐ Certificates with grades to participants by E&ICT Academy IITR. Course Contents:
- Concepts and components of transceiver front ends and advanced applications with low-cost SDR implementation.
- · Fundamentals of IoT and its hands-on laboratory.
- Distributed signal processing for sensor networks.
- Design and hardware implementation using MATLAB and SDR techniques. Implementation using vector signal analyzer and vector signal generator with commercial power amplifiers.
- Contact Hours: Five days (Theory, Hands-on, Tutorials)

How To Apply

Online: The participant may log on to the E&ICT academy IITR (website: http://eict.iitr.ac.in) and fill-up the application form.

By Email: Send scanned copy of the filled-in application form duly endorsed by the forwarding authority to E&ICT Academy IITR (Email: eict@iitr.ac.in, eictiitr@gmail.com).

Registration form in this brochure can also be downloaded from academy website.

Registration Form	
Name of the Applicant:	Affix stamp
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Gender:	photograph

Category (Please tick): GEN/OBC/SC/ST	
Designation:	
Name and Address of the Organization/Institu	

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City/	Town:.				

Email:
Phone Number:

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

DD Number:	Date:
Issuing Bank:	Payable at:
Signature of the Applic	ant::

1	Signature	and Seal	of the	Forwarding Authority	
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Registration Fee

Rs 2000 (with food and accommodation) for participants from academia, industry and research organisations.

Accommodation will be made in KIH guest house Mode of Payment: Demand Draft in the name of "DEAN SRIC HT ROORKEE"

Contact Details

For more details please log on to E&ICT academy IITR (website: http://eict.iitr.ac.in)

Course Coordinators:

- Dr. Meenakshi Rawat (IITR)
- Dr. Sanjeev Manhas (PI IITR)

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