

Electronics & ICT (E&ICT) Academy, IIT Roorkee, Uttarakhand 247667

An Initiative of Ministry of Electronics & Information Technology (MeitY), Govt. of India



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

Organized by Electronics and ICTAcademy, 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 for 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 and simulators (**Keysight 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:

Gender:	photograph
Category (Please tick): GEN/OBC/SC/ST Designation:	
City/Town: Email: Phone Number: Mobile Number: Do you need Accommodation? (Yes/No): DD Number: Issuing Bank: Payable at: Signature of the Applicant::	

Registration Fee

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

Accommodation will be made in KIH guest house

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

Contact Details

E&ICT academy IITR website: http://eict.iitr.ac.in

Signature and Seal of the Forwarding Authority

Designation:.....

Course Coordinators:

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

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