

Registration Form

Name of Applicant (first, last):.....
.....
Fathers Name:.....
.....
Mothers Name:.....
Date of Birth (DD/MM/YY):.....
Gender:.....
Category(General/SC/ST):.....
Designation:.....
Highest Qualification:.....
Name and Address of the Institute/ Organization:.....
.....
City/town:.....
Postal Address:.....
City/town:.....
Email:.....
Landline Number (with STD code):.....
Mobile Number:.....
Do you need accommodation? (Yes/No):.....
Transaction ID:.....
Transaction Date:

Affix passport
size
photograph

Issuing Bank.....
Signature of the Applicant:

I hereby agree to relieve Mr./ Ms./ Dr.....
in case he/she is selected to attend the programme.
Signature and Seal of the Forwarding Authority.

Name

Designation.....

Note:

- 1) The Faculty/Staff are requested to submit the NOC from respective department before attending the session.
- 2) The Faculty member belonging to SC/ST Category need to carry caste Certificate(both in original & photocopy).
- 3) The participant need to carry the Institute/Organization valid Identity Card (Both in Original & Photocopy).
- 4) Accommodation facility is available on paid basis. For details please contact : Name: Mr. Madhusudhan Mishra Ph: +91-9547498141/+91-6295728068, Email id: mma@nerist.ac.in, ecmadhusudhan@gmail.com

FDP Duration
40 Hrs

Course Coordinators from Academy

- **Prof. Ratnajit Bhattacharjee**
Principal Investigator, E&ICT Academy, IIT Guwahati
Email: ratnajit@iitg.ac.in
- **Dr. Gaurav Trivedi**
Co-Principal Investigator, E&ICT Academy, IIT Guwahati
Email: trivedi@iitg.ac.in

Organizing Committee Members from NERIST

PATRON

- **Prof. H S Yadav,**
Director, NERIST

ADVISOR

- **Prof. P R Parida,**
Dean (Academics), NERIST
- **Prof. Md. Anwar Hussain,**
Department of ECE, NERIST

COORDINATOR

- **Dr. (Mrs) Joyatri Bora,**
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GENERAL CHAIR

- **Dr. Rajesh Kumar,**
Associate Professor, Department of ECE, NERIST
Email: rk@nerist.ac.in, Ph. No: +91-9868576783

PROGRAM COMMITTEE MEMBERS

- ECE faculty members

(Online Registration Link will be open from 12.10.2018)
**Venue: North Eastern Regional Institute of Science and
Technology (NERIST), Nirjuli**



An Initiative of
**Ministry of Electronics & Information Technology
(MeitY), Government of India**
**Electronics & ICT Academy
IIT Guwahati, Assam**



**Faculty Development Programme on
Emerging Trends in Wireless Communication
(26 - 30 Nov, 2018)**



Organized with support from



NERIST, Nirjuli, Arunachal Pradesh



**Sciencetech
Technologies**

Course Date: 26 - 30 Nov, 2018
Last Date of Registration: 20.11.2018

Objective of the Course

The course concentrates on wireless physical layer communication and builds off of a traditional course in communications. Laboratories and projects are a fundamental component of the course. Course gives an introduction on the current wireless communication systems. Course deals with the characterization and the modelling of the propagation channel which are particularly critical in the design of the recent technologies as MIMO, LTE and time reversal.

Pre-Requisite for the Course

The preferred Pre-Requisites for the course are:

- Background from Electronics/ Electrical/IT/Computer Science Engineering or Physics
- Fundamentals of Wireless Communication.

Assignments & Project

1. Assignments will be of the following type:
 - MCQ based questionnaire.
 - Programming Assignments (Problem statement will be provided.)
2. At the end of the course “Project” will be assigned to the participants which will be based on the Practical Case Studies.

Contact Details

**Project Manager,
E&ICT Academy, IIT Guwahati**

Email: eictacad@iitg.ac.in, eictacad@gmail.com

Phone No: +91- 7086502139,
+91-3612583009/3182/2536/2503
(Working Hours 9:30 am to 5:30 pm)

Follow us on: www.facebook.com/eictacadguwahati/



For Online Transfer

Bank Name: State Bank of India
Account Name: IIT Guwahati R and D E and ICT Academy
Account No.: 36071160089
IFSC Code: SBIN0014262
Bank Name: State Bank of India
Bank Address: IIT Guwahati, GHY- 39.

Course Outcome

The participants will be given a thorough understanding of the following topics:

- Evolution of Wireless Communication, Radio propagation and modelling of wireless channels, Digital communication over fading channel, channel coding
- Spread Spectrum - Spectrum Principles, Direct Sequence Spread Spectrum (DSSS) system model, Processing gain, Power control, Synchronization
- The Multicarrier Concept, OFDM basics, Timing and Frequency Synchronization, The Peak-to-Average Ratio, SC-FDE
- Narrowband MIMO Model, parallel decomposition of MIMO channel, MIMO Channel Capacity for various conditions
- Introduction to LTE, Channel structure, OFDMA, SC-FDMA, Multiuser Diversity, Opportunistic Scheduling, MIMO in LTE, Relaying, D2D communication.
- Roadmap to 5G: targeted specifications, Millimetre Wave, Modulation techniques and waveforms, Massive MIMO, Antennas and RF subsystem for 5G, 5G Internet

Registration Fee (Course Material, Snacks & Lunch)

- Rs. 2000/- for Internal NERIST Faculty, Lab Technicians, Project Staff and students (Registration fee supported by Dept. of Electronics & Communication, NERIST)
- Rs. 2,950/- for External Faculty, Lab Technicians, and Project Staff.
- Rs. 1475/- for internal NERIST faculty/external faculty members only, belonging to ST/SC category.
- Rs. 5,900/- for Industry Personnel, Student & Research scholar (Subjected to Availability of Seat)

**Mode of Payment: Online Only
(RTGS/NEFT)**

For details of the programme and course contents etc., please log on to E& ICT Academy website: <http://eict.iitg.ernet.in/>

About E&ICT Academy

Electronics and ICT Academy is an initiative of Ministry of Electronics & Information Technology (MeitY) Ministry of Communications and IT, Govt. of India for Faculty/ Research Scholar Development Programme.

Academy has planned short term training programmes on fundamental and advanced topics in IT, Electronics & Communication, Product Design, Manufacturing with hands on training and project work using latest software tools and systems.

About NERIST

The North Eastern Regional Institute of Science and Technology (NERIST) is a unique Institute of its own kind in the country, having unconventional and innovative academic programmes. It is an autonomous institute under MHRD, Govt. of India. It was established in 1983 to produce technical manpower at various levels and to meet the technical requirements for the all-round development of the North Eastern States. NERIST got the status of deemed to be university on 31st May 2005 under section 3 of the UGC Act 1956. It offers modular pattern of education in all disciplines of Engineering along with Forestry as an applied science discipline from 10th standard to degree levels

How to Apply

Online – The participants may log on to the E&ICT Academy, IIT Guwahati website: <http://eictacad@iitg.ernet.in> and fill up the google doc application form.

Through Email – Scanned copy of the filled in application form duly endorsed by the, forwarding authority is to be mailed at E&ICT Academy’s email id (eictacad@gmail.com, eictacad@iitg.ernet.in).

Address of NERIST

**Department of Electronics & Communication
Engineering, North Eastern Regional Institute of
Science and Technology, NH-15A, Nirjuli, Itanagar,
Dist Papumpare, Arunachal Pradesh 791109**