

## Registration

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) Hostel facility is available on paid basis. The hostel charges will be @Rs.130 per day. For any queries regarding accommodation please mail to the following email id: [eictacad@iitg.ernet.in](mailto:eictacad@iitg.ernet.in), [eictacad@gmail.com](mailto:eictacad@gmail.com) and [eictinfo.iitg@gmail.com](mailto:eictinfo.iitg@gmail.com). Dinner will be served in the hostel on paid basis.

**Workshop Duration**  
**24 Hrs**

## Course Coordinators from Academy

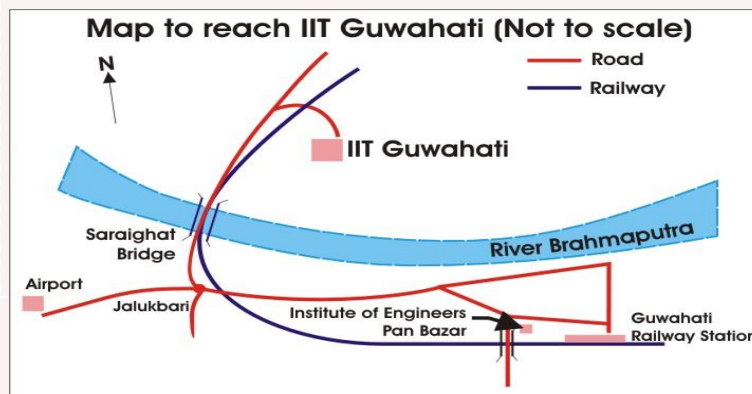
- **Prof. Ratnajit Bhattacharjee**  
*Principal Investigator,*  
*E&ICT Academy, IIT Guwahati.*
- **Dr. Gaurav Trivedi**  
*Co-Principal Investigator,*  
*E&ICT Academy, IIT Guwahati.*

## Expert from Academia and Industry

- **Prof. Ratnajit Bhattacharjee**  
*Principal Investigator,*  
*E&ICT Academy, IIT Guwahati.*
- **Mr. Samba Murthy C V**  
*Consultant Trainer,*  
*Techvictus , New Delhi / Bangalore*

## How to Reach E&ICT IITG

IIT Guwahati is located just on the outskirts of the city of Guwahati and is well connected to other parts of the country by road, rail or air. There are direct air services from/to Mumbai, New Delhi and Kolkata with connectivity to all major cities. For information of trains to Guwahati please visit the Indian Railways website [www.indianrail.gov.in](http://www.indianrail.gov.in). For commuting from the station to the North Guwahati IIT campus bus service is available from G.N.B. road, Panbazar as per the schedule which can be downloaded from the website.



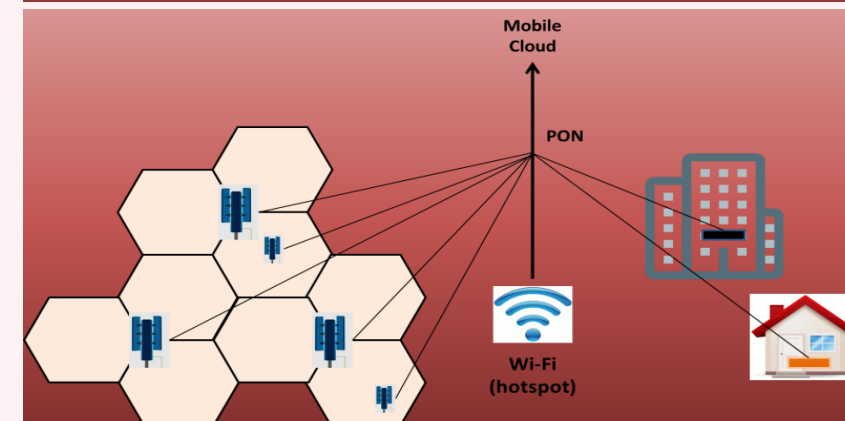
An Initiative of  
**Ministry of Electronics & Information Technology  
(MeitY), Government of India**



**Electronics & ICT Academy  
IIT Guwahati, Assam**



## 5G Networks



Organized with support from



**Techvictus Consulting**

Applications are invited from Faculty Members/ Research Scholars/ PG & UG Students/ Lab Technicians/ Project Staffs from Universities/ Colleges/ Schools & Industry Personnel working in the concerned discipline to attend the workshop on

**“5G Networks”**

**Course Date: 22<sup>nd</sup> – 24<sup>th</sup> January , 2018**  
**Last Date of Registration: 18.01.2018**  
*(Online Registration Link will be open from 15.12.2017)*  
**Venue: Computer Lab-1, E&ICT Academy, IIT Guwahati**

## Objective of the Course

The objective of this course is to impart the technical knowledge on the technologies that are being developed today to enable a 5G future. In addition, the course aims at sharing the knowledge on the SON (Self-Organized Network) and its ability to make the planning, configuration, management, optimization and healing of mobile radio access networks simpler and faster.

Additionally it covers the potential use cases that will transform entire businesses and industries, and create new business models and opportunities.

## Course Programme

The course is split into :

- Radio technologies deployed in 5G
- Mobile clouds
- Next generation wireless networks
- Network Security
- Self organised Networks (SON)

## Contact Details

For more details or any queries please contact

**Project Manager,**

**E&ICT Academy, IIT Guwahati**

**Email: [eictacad@iitg.ernet.in](mailto:eictacad@iitg.ernet.in),**

**[eictacad@gmail.com](mailto:eictacad@gmail.com)**

**[eictinfo.iitg@gmail.com](mailto:eictinfo.iitg@gmail.com)**

**Phone No: +91-7086502139,**

**+91-3612583009/3182/2536/2503**

**(Working Hours 9:30 am to 5:30 pm)**

### For Online Transfer

**Bank Name: State Bank of India**

**Account Name: IIT Guwahati R&D E&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:

- Radio Network\Technologies that
  1. Achieve higher throughput thro carrier aggregation
  2. Make Radios more agile and intelligent using cognitive radio technology
  3. Enable small cells for better capacity, coverage management
- Next generation Wireless Technologies including :
  1. Co-operative diversity and relaying strategies for reliable wireless transmission
- Mobile Cloud computing technologies that bring cloud computing, mobile computing and wireless networks to bring rich user experience
- 5G network security and mitigation methods
- Self Organised Network (SON) methods in managing the network complexity

## Course Topics

1. **5G Introduction**
2. **5G Internet**
3. **Small cells for 5G networks**
4. **Next generation Wireless Networks**
5. **Mobile Clouds**
6. **Cognitive Radio for 5G Networks**
7. **5G Network Security**
8. **SON for 5G network**

## Registration Fee

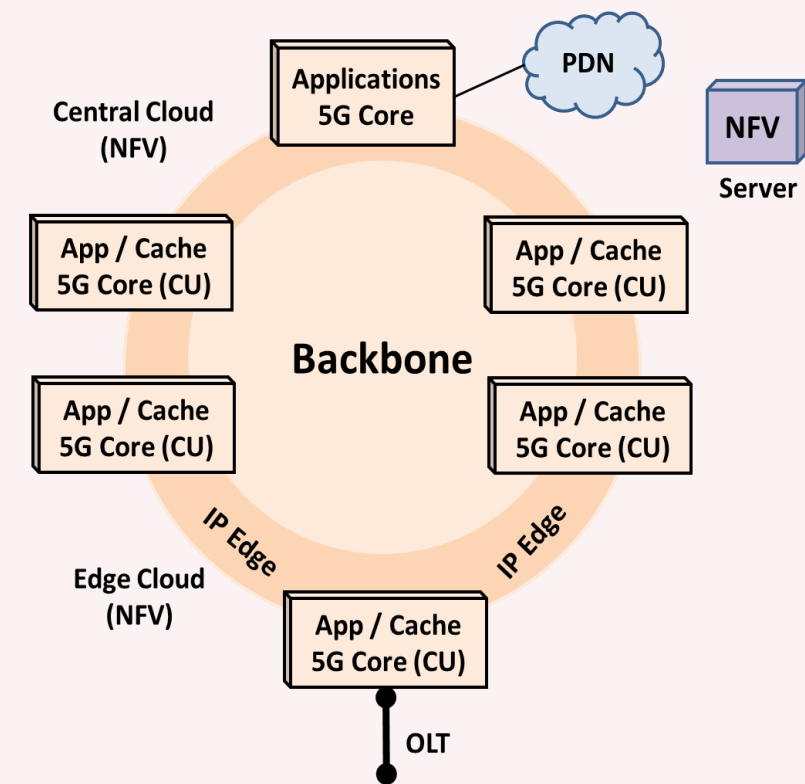
**Registration Fee (Snacks and Lunch )**

Rs. 1,000/- for Faculty, Lab Technicians and Project Staff

Rs. 1,500/- for Industry Personnel, Research Scholars and Students.

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

## 5G core network



## 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.

In addition, the Academy will conduct specialized/customized training programmes and research promotion workshops for corporate sector & educational institutions.

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