

REGISTRATION AND FEES

IMPORTANT DATES:

Last date for receipt of

application with Draft: **30/06/2017**

Date	Category	Fee
Before 30 th June 2017	BTech/MTech/PhD students	INR 1000
After 30 th June 2017	BTech/MTech/PhD students	INR 1500
Before 30 th June 2017	Faculty/Industry personnel	INR 1500
After 30 th June 2017	Faculty/Industry personnel	INR 2500

Selection letters to be e-mailed:

Course Commences on: **03/07/2017**

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NOTE : Envelope must be superscribed as "Workshop on Network Simulation (NetSim)"

Two day Technical Workshop on Simulation of Wireless & Mobile Communication Networks using NetSim™

(3rd – 4th July, 2017)

Registration Form

1. Name: _____
2. Sex (M/F): _____
3. Category: Student / Faculty / Industry
4. College/ Organization name: _____

5. Highest Academic Qualification: _____
6. Address for Correspondence:
Phone/Mobile:
Email:
7. Accommodation Required: Yes/No
(Hostel/Visitor Hostel)
8. Bank Draft Details:
Amount _____ Draft No: _____
Drawn on _____
Date:
Place: _____ Signature of Participant
Forwarded by Head of the Department / Institute

Signature (with seal)

Two day Technical Workshop on Simulation of Wireless & Mobile Communication Networks using NetSim™

(3rd-4th July, 2017)



Coordinator

Prof. S. K. Das

Co-coordinator

Prof. S. M. Hiremath



Dept. of Electronics & Comm. Engg.
National Institute of Technology
Rourkela – 769 008, Odisha, India

COURSE OBJECTIVE:

- **NetSim™ Introduction & how to use NetSim.**
 - Building **network models, scenarios, model traffic**, running the simulation.
 - **Latest Research** with NetSim in **WSN, MANET/VANET, Cognitive Radios, LTE/LTE-A** and **IOT** domains.
 - How to **modify the existing routing protocols & write your own protocol / algorithm** in NetSim.
 - **Visualization** using **Packet Animator** with **Packet Information** for above mentioned technologies.
 - **Analysis of various performance metrics, packets & events** in a network using **packet trace & event trace**.
 - Sample **R&D Projects** available with NetSim (**DRDO/ISRO/BSNL/Defence Projects**).
 - **Do your own research.** Improve research quality & enhance research productivity.
 - **Analyze your code execution;** Debug your models using **simulation-in-the-loop debugging** with Visual Studio.
- ★ *NetSim™ is a world's leading & most popular network simulation software actively use by **More than 350 Universities** worldwide for **Network R&D**.*

ABOUT DEPARTMENT OF ECE:

The main objective of the Department is to impart high quality education and research. The major research areas of the department include Communication Networking, Signal Processing, Image & video Processing, VLSI and Embedded Systems, Microwave and Antenna Engineering. The EC department is handling several research projects sponsored by external funding agencies. The department has resourcefully established Communication Network lab equipped with various types of state of art licensed software.

COURSE HIGHLIGHTS:

- ❖ **NetSim™ Simulator – Introduction.**
 - ❖ **How to use NetSim (GUI & CLI Features)**
 - ❖ **Simulating IOT, WSN, Zigbee - PAN, Cognitive Radios, LTE / LTE-A, Cellular GSM/CDMA, Internetworks, Legacy N/Ws, BGP Networks, MANET & VANET Networks etc. (Hands-on/ Practice Session)**
 - ❖ **WSN Power Models, Main-Line, Battery Operated, Energy Harvesting Techniques etc.**
 - ❖ **Network Architecture for Heterogeneous devices with IoT, 6LoWPAN based IoT design.**
 - ❖ **Post Research Analysis** (Results / Packet Trace, Event Trace, Dynamic Performance Metrics etc.)
 - ❖ **NetSim Interfacing & Co-Simulation** with **MATLAB, SUMO & WireShark** tools.
 - ❖ **Hot Research Areas, Sample R&D Projects and many more.....**
- ★ *All the Lab classes will be followed by background theory classes covered by experts*

INTENDED ATTENDEES:

The course is designed primarily to train students, professionals, scholars, faculties to take up communication networking as a career option in academic and industry. Students and faculties of Electronics, Electrical, Computer Science and MSc (Electronics) would find this course extremely useful.

ABOUT NIT ROURKELA:

National Institute of Technology (NIT), Rourkela was founded as Regional Engineering College, Rourkela in 1961. It is a prestigious Institute with a reputation for excellence at both undergraduate and postgraduate levels, fostering the spirit of national integration among the

students, a close interaction with industry and a strong emphasis on research, both basic and applied.

The city of Rourkela is a bustling industrial city, cosmopolitan by nature and is well connected to all parts of the country by road and rail. It is en-route Howrah-Mumbai main line of South-Eastern Railway. Nesting amidst greenery on all sides, NIT campus is approximately 7 km from Rourkela railway station. The nearest airports are Ranchi, Kolkata and Bhubaneswar, which are well connected by trains.

WEBSITE:

<http://nitrrkl.ac.in/Academic/6ShortTermCourse/Default.aspx>

MODE OF PAYMENT:

Payment should be done in DD/ Multicity Cheque in favor of "**CONFERENCE NIT ROURKELA**" payable at **SBI, NIT Campus Branch**. (Code: 2109) or you may transfer/deposit the amount through our SBI account No. 36734418111, Account type: S.B A/C, IFSC Code: SBIN0002109.

ACCOMMODATION:

Accommodation will be provided in Hall of residences or Guest Houses of NIT, Rourkela as per availability.

* Room rent for Hall of residences/Guest house will be paid by the participants.