

About the Institute:

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, close interaction with industry, and a strong emphasis on basic and applied research. It has been consistently ranked within the TOP 20 engineering institutes for four consecutive years as per MHRD's NIRF, Govt. of India.

About ECE Department:

The Department of Electronics and Communication Engineering at NIT Rourkela covers a host of subjects inclusive of electronic circuits, microprocessors, digital signal processing, image processing and computer vision, soft computing, analog communication, digital communication, mobile communication, VLSI, Embedded Systems, electronic instrumentation, analytical instrumentation and many more. The department has laboratories catering to all the subjects of studies. Faculty members of the department work in different specializations under the groups: Communication engineering, VLSI and embedded systems, Signal Processing, and Instrumentation. Faculty members are pursuing many research projects with funding from organizations like ISRO, DST, DRDO, and BRFST.

Target Participants:

Motivated Doctoral & Master's students from Tier-I, Tier-II & Tier-III level institutes as defined under the Scheme 'Accelerate Vigyan' by DST-SERB.

Chief Patron

Prof. Karanam Umamaheshwar Rao
Director, NIT Rourkela

Patron

Prof. Santanu Kumar Behera
HOD, Department of ECE, NIT Rourkela

Principal Convener

Prof. Poonam Singh, Department of ECE
Department of ECE, NIT Rourkela

Tentative Resource Persons

Dr. Neelesh B. Mehta, IISC Bangalore
Dr. Sarat Kumar Patra, IIIT Vadodara
Dr. Saswat Chakrabarti, IIT Kharagpur
Dr. Debarati Sen, IIT Kharagpur
Dr. Vimal Bhatia, IIT Indore
Dr. Himanshu B. Mishra, IIT Dhanbad
Mr. Umesh Sajjanar, Cisco Systems, Bangalore
Mr. Vijay Kumar Agarwal, DRDO, Hyderabad
Mr. Ravi Siddanath, Broadcom Corporation, Bangalore

Support Team

Mr. Goutam Kumar Sahoo, NIT Rourkela
Mr. Bibekananda Panda, NIT Rourkela
Mrs. Merin Susan Philip, NIT Rourkela
Ms. Subhra Jyoyi Sahu, NIT Rourkela
Mr. Abinash Sahoo, NIT Rourkela

High-End workshop

On 6G and AI: Connecting Things with Connecting Intelligence

Sponsored by Science and Engineering
Research Board (SERB), India

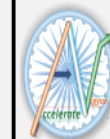
12th - 16th Dec 2022



Coordinators

Prof. Poonam Singh, Department of ECE
Prof. Siddharth Deshmukh, Department of ECE

Organized by
Department of Electronics &
Communication Engineering
National Institute of Technology Rourkela
Odisha, India-769008



About the Workshop:

The research on 6G networks has received attention from industry and academics. Artificial intelligence (AI) has recently been used as a new paradigm for the intelligent design and optimization of 6G networks. The scientific community is now collaborating with industry stakeholders to develop the 6G roadmap. 6G is considered transforming from “connected things” to “Connected Intelligence .” The next-generation network will need to integrate new radio interfaces to connect to the heterogeneous networks. Future heterogeneous wireless networks would be based on what is known as an advanced radio system with AI capabilities. Therefore, communication engineers, students, and researchers must understand the principles of new wireless technologies and AI to work in the rapidly increasing wireless industry.

Course Objectives:

- Bridge together industry and academic professionals in wireless communication and artificial intelligence applications.
- Share experiences, and initiate efforts towards highlighting open problems in the future generation of wireless communication.
- Workshop participants will learn about the recent trends in current generation networks and beyond and apply AI to wireless communication systems and their fundamentals.
- Some hand-on sessions will give practical exposure to the application of AI in wireless communication systems.

Registration and selection process:

Registration Deadline	30th Nov 2022
Confirmation to Participants by email	10th Dec 2022
Commencement of Course	12th Dec 2022 (Hybrid mode)

Registration & Guidelines

- **The course will be completely free of cost for the shortlisted participants.**
- The participants will be limited to 25 candidates (as per SERB norms). The applicants shall produce an endorsement letter from their Head of the department indicating their enrolment with the institute and a “No-Objection Certificate (NOC)” for permitting them to undergo training in the workshop if selected.
- NITR reserves the right to devise well-defined shortlisting criteria for the selection of candidates based on the basic eligibility criteria laid out by SERB and as per formulated guidelines for this workshop.

Online Registration link:

<https://forms.gle/RednjXx7T3dzTUz6>

Certificates will be provided to the registered participants upon successfully completing the course.

Contact details:

Please send your queries directly to the course coordinators.

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High-End workshop

On

6G and AI: Connecting Things with Connecting Intelligence

12th – 16th Dec 2022

REGISTRATION FORM

1. Name:
2. Designation:
3. Institute:
4. Qualification (M.Tech/Ph.D):
5. Branch:
6. Specialization:
7. Correspondence Address:
-
8. Mob.
9. E-Mail:
8. Any other Information:

Date:

Place:

Signature of the applicant

Recommended by HOD/Supervisor (for students only)

(Sign & Seal)