ABOUT THE INSTITUTE

National Institute of Technology Delhi (NITD) is one of the thirty NIT(s) established in 2010 by an act of parliament. It has been declared an Institute of National Importance. NIT Delhi is an autonomous Institute that functions under the Ministry of Education's aegis, the Government of India. It aims to provide instructions and research facilities in various disciplines of Engineering, Science and Technology, Management, Social Sciences, and Humanities for advanced learning and dissemination of knowledge. Currently, the institute offers a B. Tech programmer in the disciplines of Computer Science Engineering, AI and Data Science, Electronics and Communication Engineering, VLSI Design and Technology, and Electrical Engineering, Mechanical and Aerospace Engineering, Civil Engineering. NITD is also offering M Tech. and Ph.D. programs in various Schemes. The institute is located at GT Karnal Road, near Garhi Khurd, Bakoli, Delhi.

ABOUT THE DEPARTMENT

The Department of ECE was established in 2010 with a commitment to excellence in education, research, and innovation. Currently, it offers two Undergraduate (B. Tech) courses and two Postgraduate (M. Tech) courses in ECE and VLSI Design. The Department also offers Ph.D. program in various specializations such as electronic devices and circuits, Computer networks, communication systems, microwave and antenna design, multimedia, AI, ML, IoT, 6G Applications. Equipped with state-of-the-art laboratories and active research initiatives, the department fosters a dynamic learning environment for academic and practical excellence.

VISION

Create an educational environment to prepare the students to meet the challenges of the modern electronics and communication industry through state of art technical knowledge and innovative approaches beneficial to society.

MISSION

- To promote teaching and learning by engaging in innovative research and by offering state-of-the-art undergraduate, postgraduate, and doctoral programs.
- To cultivate an entrepreneurial environment and industry interaction, leading to the emergence of creators, innovators, and leaders.
- To promote co-curricular and extra-curricular activities for the overall personality development of the students.
- Building of responsible citizens through awareness and acceptance of ethical values

ABOUT THE STC

This six-day Short-Term Course (STC) provides a comprehensive exploration of emerging technologies shaping next-generation communication networks. Key focus areas include network virtualization, edge computing, AI-driven network management, radio frequency, microwave antenna systems and ultra-reliable low-latency communication, with emphasis on cloud-native integration. Through expert-led sessions, hands-on workshops, and live demonstrations, participants will gain practical insights and technical expertise to contribute to 6G research and development.

Who can attend: UG and PG students, PhD/Research scholars, Faculty from Universities, Technical and Professional Institutes and industry personnel working in allied disciplines can also attend.

Short-Term Course
on
Next-Gen Communication: Trends, Technologies and Transformations (NGCT)

Technically Sponsored By
IEEE AP-S/CRFID Chapter, Delhi Section

15th-20th September 2025
(Hybrid Mode)

Organized By

National Institute of Technology Delhi
(An Institute of National Importance under Ministry of Education, Govt. of India)
Department of Electronics and Communication Engineering

Chief Patron
Prof. (Dr.) Ajay K Sharma
Director

Patron
Dr. Rikmantra Basu
Head, Dept. of ECE

Convener
Prof. (Dr.) Jyoteesh Malhotra
Dean R&C NIT Delhi

Coordinator(s)
Dr. Sachin Agarwal
Asst. Prof. ECE Dept

Dr. Dharmendra K. Jhariya
Asst. Prof. ECE Dept

Invited speakers/Resource Person:

1. Prof. Mahesh P Abgaonkar, IIT Delhi (CARE)
2. Prof. Akhilesh Mohan, IIT Roorkee
3. Prof. Rambilash Pachori, IIT Indore
4. Dr. Debidas Kundu, IIT Delhi
5. Dr. Aroni Khan, IIT Jodhpur
6. Dr. Manoj B R, IIT Guwahati
7. Dr. Sukomal Dey, IIT Palakkad
8. Dr. Sandeep Joshi, BITS Pilani
9. Dr. Gaurav Verma, NIT Kurukshetra
10. Dr. Ravi Kumar Arya, Xinagzhang University China
11. Dr. Tushar Sharma, Ansys
12. Mr. Anil Kumar Tandon, Keysight

Registration:

Register for STC through the following form link: Google Form

Last date for registration: 10th-September, 2025. Participants will be notified via email

The registration fee for the course is as follows:

UG	: ₹ 300/-
PG/PhD	: ₹ 400/-
Faculty	: ₹ 600/-
Industry personals	: ₹ 800/-

Scan to Pay

OR

Deposit the fee in following account or scan to pay:

Account Holder's Name	: Director National Institute of Technology Fee Collection
Account Number	: 092901001801
IFSC Code	: ICIC0004610
Bank Name & Branch	: ICICI Bank, Delhi-NIT Narela Sub city

Topics to be Covered:

- Design and performance analysis of physical layer communication for next gen wireless network.
- Wave antennas, Metamaterial, Reconfigurable antennas and MIMO System.
- Broadband Beam Scanning array antenna in 4G/5G/Wi-fi Application.
- Scattering and Polarization Control of Electromagnetic waves.
- Electromagnetic Band Gap (EBG) structure and Artificial Magnetic Conductor (AMC).
- Non-Stationary Signal processing, Speech Signal Processing and Brain Computer Interfacing.
- Millimeter-wave and Terahertz Components for ultra-high data rate and low latency.
- High-Gain, Beam Steering Antenna Arrays optimized for Millimeter Wave and 6G applications.
- Compact multiband MIMO Antennas for sub-6 GHz and mm wave supporting IoT and 6G integration.

Member(s):

- Prof. (Dr.) Manoj Kumar
- Dr. Manisha Bharti
- Dr. Sandeep Kumar
- Dr. Nitin Singh Singha
- Dr. Baljit Kaur
- Dr. D. Vaithiyanathan
- Dr. Mahesh K. Singh
- Dr. Manish Verma
- Dr. Preeti Verma
- Dr. Navneet Garg

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