Workshops/ Courses/ Seminars/ Expert Lectures Organized by the ECE Department

Name of the Event	Organized By	Venue	Period	Organizer
One-Day Interdisciplinary Workshop on Nano Material Characterization	ECE Department, NIT Delhi, in collaboration with Agmatel/ Keysight Technologies.	NIT Delhi	March 18, 2015	Convener: Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
Research Scholar Day Celebration	ECE Department, NIT Delhi	NIT Delhi	September 11, 2015	Convener: Dr. Rikmantra Basu

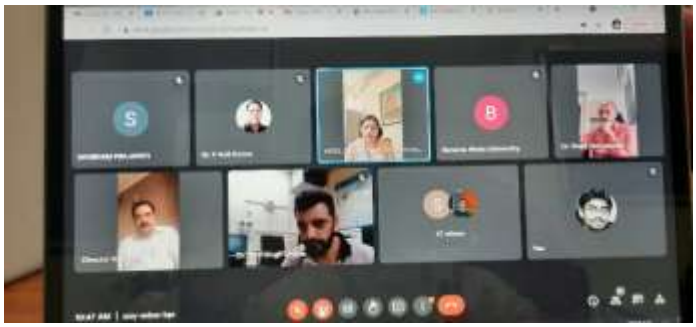
Name of the Event	Organized By	Venue	Period	Organizer
n+i Networking Programme and Expert talk: Prof. Yan Busnel, Head CSE, ENSAI (National Graduate School for Statistics and Data Analysis)	ECE Department, NIT Delhi	NIT Delhi	January 28, 2016	Convener: Dr. Rikmantra Basu

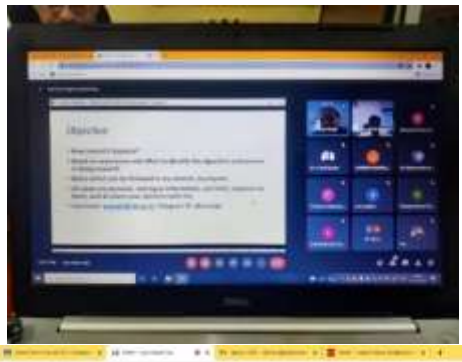
Name of the Event	Organized By	Venue	Period	Organizer
Faculty Development Programme: Mobile Computing and Communication	NIT Delhi in collaboration with AIACTR, Delhi	NIT Delhi and AIACTR, Delhi	July 3-4, 2017	Convener: Dr. Rikmantra Basu Co-Convener: Late Dr. Rajiv K Tripathi

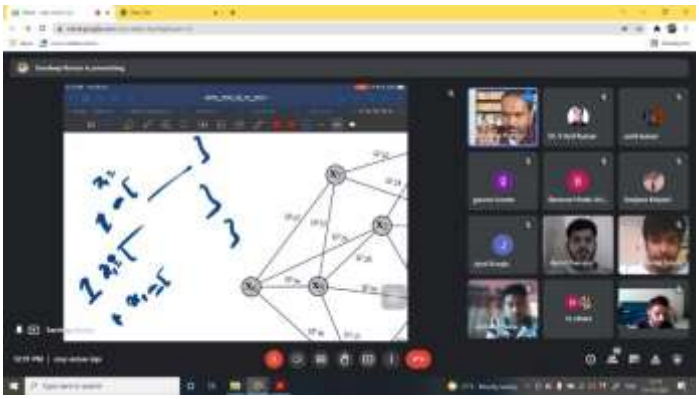
Name of the Event	Organized By	Venue	Period	Organizer
Expert Talk by Prof. Guo En Chang, Associate Professor, Department of Mechanical Engineering and AIM-HI, National Chung-Cheng University, Taiwan on GeSn MIR photonics on silicon"	NIT Delhi	NIT Delhi	February 07, 2018	Convener: Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
Expert Talk by Dr. Suchandan Paul, Senior Principal Scientist & Head, PME Unit, CSIR-Central Electronics Engineering Research Institute (CSIR-CEERI) on “GaN-based Visible and UV LEDs”.	NIT Delhi	NIT Delhi	October 14, 2019	Convener: Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
One Week Online Self-Sponsored Short-Term (STC) Course on "Emerging Trends and Challenges in Communication Systems	ECE Department, NIT Delhi	NIT Delhi	October 18-22, 2021	Convener: Dr. Nitin Singh Singha Co-Convener: Dr. Rikmantra Basu

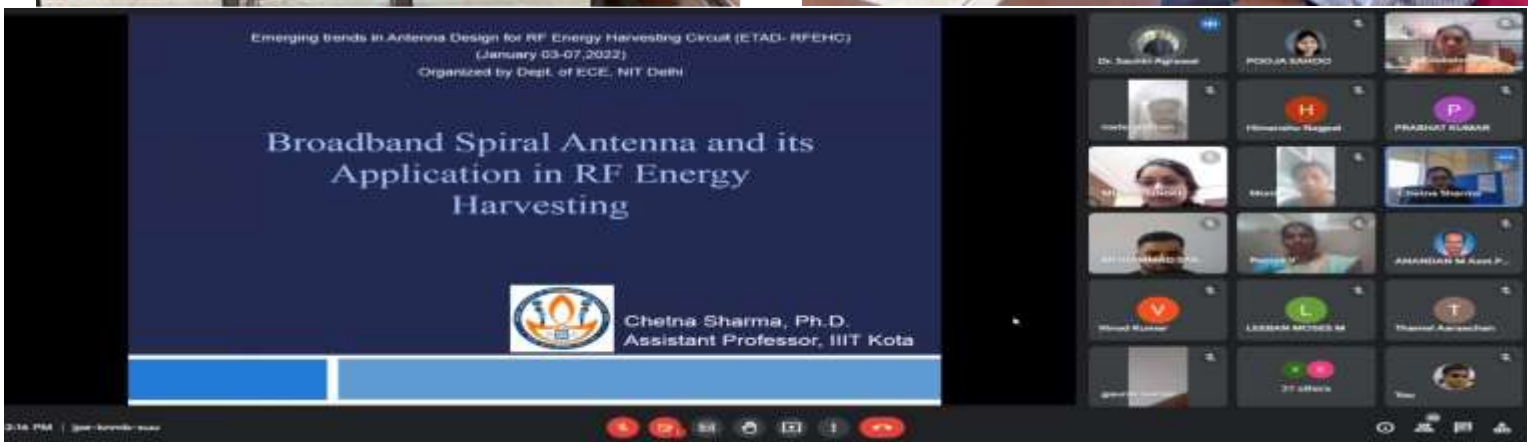






Name of the Event	Organized By	Venue	Period	Organizer
Online Expert Talk on "Optical Fiber-based Plasmonic Sensors for Biomedical Applications"	ECE Department, NIT Delhi	NIT Delhi	November 17, 2021	Convener: Dr. Sandeep Kumar Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Organizer
One Week Online Self-Sponsored Short-Term (STC) Course on "Emerging Trends in Antenna Design for RF Energy Harvesting Circuit (ETAD- RFEHC)"	ECE Department, NIT Delhi	NIT Delhi	January 03-07, 2022	Convener: Dr. Sachin Agrawal Co-Convener: Dr. Rikmantra Basu Co-Convener: Dr. D. Vaithiyanathan



Name of the Event	Organized By	Venue	Period	Organizer
6- Days Online International workshop on "Group IV Photonics	ECE Department, NIT Delhi	NIT Delhi	March 15-20, 2022.	Coordinator: Dr. Rikmantra Basu (India Side) Coordinator: Prof. Guo-EN Chang, CCU, Taiwan (Taiwan side)

IEEE Photonics Society
(Delhi Section – Rajasthan Chapter) INDIA
(Technical Sponsor)

International Workshop
on
Group IV Photonics
March 15 – 20, 2022
Coordinator: Dr. Rikmantra Basu, NIT Delhi (India side)
Prof. Guo-En Cgang, CCU, Taiwan (Taiwan side)

IEEE Tainan Section
TAIWAN
(Technical Sponsor)

Organized by

Department of Electronics and Communication Engineering (*ECE*)
National Institute of Technology (NIT) Delhi, INDIA

AIM-HI (*Advanced Institute of Manufacturing with High-tech Innovations*) and CoE (*College of Engineering*)
National Chung Cheng University (CCU), TAIWAN

Co-Organized by

IEEE NIT Delhi Student Branch

Name of the Event	Organized By	Venue	Period	Organizer
Online Expert Talk by Dr. Sunanda Jha, Assistant Professor, Centre for Energy and Environment, Malaviya National Institute of Technology Jaipur, Rajasthan on Futuristic PV (Photo-Voltaic) Applications in celebration of International Light Day 2022, contributing to Azadi Ka Amrit Mahotsav, the 75th Anniversary of Indian Independence	ECE Department, NIT Delhi with Prakash Bharti and IEEE Photonics Society-Delhi Section (Rajasthan Chapter)	NIT Delhi	May 13, 2022	Coordinator: Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
Online Faculty Development Programme on "VLSI Devices and Communication Systems (VDCS)".	ECE Department, NIT Delhi	NIT Delhi	May 23-28, 2022	Coordinator: Dr. Sachin Agrawal Dr. Nitin Singh Singha

Name of the Event	Organized By	Venue	Period	Organizer
Online Faculty Development Programme on "Emerging Trends in Signal Processing, Communication and VLSI (ETSPCV-2022)".	ECE Department of NIT Delhi	NIT Delhi	June 6 – 11, 2022	Conveners: Dr. Sandeep Kumar Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Function
Expert Talk by Dr. Deepak Jain, Assistant Professor, Electrical Engineering Department, IIT Bombay, on: How to promote yourself as a young researcher and Novel Optical Fibers for Light Sources and Optical Communication in celebration of International Light Day 2022, contributing to Azadi Ka Amrit Mahotsav, the 75th Anniversary of Indian Independence	ECE Department, NIT Delhi with Prakash Bharti and IEEE Photonics Society-Delhi Section (Rajasthan Chapter)	NIT Delhi	July 12, 2022	Coordinator: Dr. Rikmantra Basu

IEEE Photonics Society
Transforming Science into Technology™

राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली
National Institute of Technology Delhi
(An autonomous Institute under the aegis of Ministry of Education, Govt. of India)

IEEE NIT DELHI

National Institute of Technology Delhi

in Collaboration with IEEE Photonics Society (Rajasthan Chapter)- Delhi Section and IEEE NITD Student Branch

Organizing Interaction Program and Expert Talk on

Novel Optical Fibers for Light Sources and Optical Communication

12.07.2022, 11:00 AM @ Meeting Room, Mini Campus, NIT Delhi

Speaker: Dr. Deepak Jain, Assistant Professor, Department of Electrical Engineering, IIT Bombay

Dr. Manpreet Singh Manna	**Dr. Rikmantra Basu**	**Dr. Manisha Bharti**	**Prof. Ajay K Sharma**
Chairperson, IEEE Photonics Society (Rajasthan Chapter)	Institute Event Coordinator	Head, ECE, NIT Delhi	Institute Patron, NIT Delhi

Name of the Event	Organized By	Venue	Period	Organizer
Faculty Development Programme on "Latest Trends in VLSI Devices, Circuits and Tools".	ECE Department of NIT Delhi	NIT Delhi	September 19-24, 2022	Conveners: Dr. D.Vaithiyanathan Dr. Baljit Kaur Dr. Preeti Verma

Name of the Event	Organized By	Venue	Period	Organizer
Faculty Development Programme on "Advancement in Microwave Technology for VLSI and Communication System (AMVC)".	ECE Department of NIT Delhi	NIT Delhi	November 07-12, 2022	Conveners: Dr. Dharmendra Kr Jhariya Dr. Sachin Agrawal Dr. Nitin Singh Singha

Name of the Event	Organized By	Venue	Period	Organizer
Expert Talk on "Photonics Generation and Transmission of Microwave Signals"	ECE Department of NIT Delhi	NIT Delhi	November 16, 2022	Conveners: Dr. Sandeep Kumar Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Function
Expert Talk on IPR Awareness Programme (National Intellectual Property Awareness Mission (NIPAM 2.0)	ECE Department of NIT Delhi	NIT Delhi	November 30, 2022	Conveners: Dr. Dharmendra Kumar Jhariya Dr. Sachin Agrawal

Name of the Event	Organized By	Venue	Period	Organizer
One-Week International Workshop on "Electronics, Photonics and IC at the 75th Anniversary of Transistor	ECE Department, NIT Delhi with IEEE Photonics Society- Delhi Section (Rajasthan Chapter), The Prakash Bharati (a consortium of IEEE Photonics Society Chapters of India) and IEEE Circuits and Systems Society Delhi Chapter.	NIT Delhi	February 20-25, 2023	Convener: Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
Short Term Course (STC) on Recent Trends in Computer Vision, Artificial Intelligence and Robotics (RTCVAIR-2023) (20th March – 25th March 2023)	ECE Department, NIT Delhi	NIT Delhi	March 20-25, 2023	Coordinator: Dr. Mahesh K. Singh and Dr. Dharmendra K. Jhariya

Name of the Event	Organized By	Venue	Period	Organizer
Short-Term (STC) Course on "Nascent Technologies in Signal Processing, Communication and VLSI (NTSPCV-2023)	ECE Department, NIT Delhi	NIT Delhi	April 24-29, 2023	Patron: Prof. Manoj Kumar Coordinator: Dr. Manisha Bharti and Dr. Sandeep Kumar

Name of the Event	Organized By	Venue	Period	Organizer
Expert Talk on "Metaverse and its applications" by Prof. (Dr.) Lunchakorn Wuttisittikulkij, EE Department Chulalongkorn University, Bangkok- 10330	ECE Department, NIT Delhi	NIT Delhi	August 02, 2023	Coordinator:

Name of the Event	Organized By	Venue	Period	Organizer
One-day joint collaborative workshop between NIT Delhi and CSIR-National Physical Laboratory (NPL), New Delhi	ECE Department, NIT Delhi with NPL, New Delhi	NIT Delhi	August 17, 2023	Chairman: Prof. Manoj Kumar Convener: Dr. Rikmantra Basu and Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Organizer
Expert Talk on "Power of Failure" by Major Gen. NK Dhir (Retd.)	ECE Department, NIT Delhi	NIT Delhi	September 20, 2023	Chairman: Prof. Manoj Kumar Convener: Dr. Rikmantra Basu and Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Organizer
Expert lecture on "Image Processing & Computer Vision" on 17 Oct 2023 by Prof. Navin Rajpal.	ECE Department, NIT Delhi	NIT Delhi	October 17, 2023	Chairman: Prof. Manoj Kumar Convener: Dr. Rikmantra Basu and Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Organizer
Expert lecture on "Introduction & Application of Remote Sensing" on 19 Oct 2023 by Dr. Sugandh Chauhan.	ECE Department, NIT Delhi	NIT Delhi	October 19, 2023	Chairman: Prof. Manoj Kumar Convener: Dr. Rikmantra Basu and Dr. Manisha Bharti

Live Expet Talk by the Dr. Sugandh Chauhan at National Institute of Technology Delhi on the theme of "Remote Sening Application"

Name of the Event	Organized By	Venue	Period	Organizer
Short Term Course on "Modern VLSI Design and EDA Tools Hands-on Session"	ECE Department, NIT Delhi	NIT Delhi	November 02- 08, 2023	Convener: Prof. Manoj Kumar & Dr. Preeti Verma Coordinators: Dr. Manisha Bharti & Dr. D. Vaithiyanathan

Name of the Event	Organized By	Venue	Period	Organizer
Alumni talk series in collaboration with the IEEE NIT Delhi Student Branch by Mr. Anirudh Kumar Parag, ECE B. Tech, Graduated during the 2012-2016 batch and present PhD Student of IMEC, Belgium Topic: Designing for the Elderly: From remote-controlled switches to implantable medical devices - Lessons from 3 countries	ECE Department, NIT Delhi	NIT Delhi	December 01, 2023	Convener: Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
One-day Scientific Collaborative Workshop between CSIR-National Physical Laboratory (NPL), New Delhi and National Institute of Technology (NIT) Delhi	NPL, New Delhi, with NIT Delhi	NPL, New Delhi	January 18, 2024	Chairman: Prof. Manoj Kumar Convener: Dr. Rikmantra Basu and Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Organizer
One-Week 2nd IEEE International Workshop on Silicon Photonics, organized by the ECE Department of NIT Delhi from February 05-10, 2024, in blended mode	ECE Department, NIT Delhi with IEEE Photonics Society-Delhi Section (Rajasthan Chapter), IEEE Circuits and Systems Society Delhi Chapter and IEEE NIT Delhi Student Branch	NIT Delhi	February 05-10, 2024	Convener: Dr. Rikmantra Basu

	Prof. Bijoy Krishna Das IIT Madras, India		**Prof. Bahram Jalali** University of California, Los Angeles, USA		**Prof. Anurag Sharma** **IIT Delhi, India**		**Dr. Hans-Christian Sigg** Paul Scherrer Institut, Switzerland
	Prof. Shankar Kumar Selvaraja CeNSE, IISC Bangalore, India		**Prof. Shaibal Mukherjee** IIT Indore, India		**Prof. Kirsten E. Moselund** EPFL, Switzerland		**Dr. Samudra Roy** IIT KGP, India
	Prof. Mukesh Kumar IIT Indore, India		**Dr. Harshvardhan Kumar** LNMIIT, Jaipur, India		**Dr. Srikanth Sugavanam** IIT Mandi, India		**Dr. Amritanshu Pandey** IIT BHU, India
	Dr. Riddhi Nandi GLOBALFOUNDRIES		**Dr. Sankha dip Das** Ministry of Electronics and Information Technology, GOI		**Dr. Samik Mukherjee** Jio Institute, India		

Name of the Event	Organized By	Venue	Period	Organizer
One Week hybrid Self-Sponsored Short-Term (STC) Course on "Beyond 5G and IOT (5GIOT-2024)	ECE Department, NIT Delhi with Speakers from eminent institutes IIT Delhi, IIT BHU, PEC Chandigarh, HR Universal Systems Inc, Tetcos LLP: NetSim Pvt. Ltd., Sensenet Pvt. Ltd., Chitkara University	NIT Delhi	January 29th to 03th February, 2024.	Convener: Prof. (Dr.) Manoj Kumar and Prof. (Dr.) Jyoteesh Malhotra Coordinator: Dr. Mahesh Kumar Singh and Dr. Nitin Singh Singha

Name of the Event	Organized By	Venue	Period	Organizer
One-day Hands-on-Training workshop on COMSOL Multiphysics	ECE Department, NIT Delhi with IEEE NIT Delhi Student Branch	NIT Delhi	March 20, 2024	Convener: Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
One-day Distinguished Lecture Series by the ECE Department of NIT Delhi in collaboration with the IEEE Electron Device Society (EDS), Delhi Chapter Expert Talks by: Prof. Mridula Gupta and Prof. Sneha Kabra, University of Delhi	ECE Department, NIT Delhi with IEEE Electron Device Society (EDS), Delhi Chapter	NIT Delhi	April 18, 2024	Chairman: Prof. Manoj Kumar Convener: Dr. Rikmantra Basu and Dr. Manisha Bharti

राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

NATIONAL INSTITUTE OF TECHNOLOGY DELHI

Distinguished Lectures

Expert:
Professor Mridula Gupta,
Department of Elec. Sc., University of Delhi
Former Chairperson, IEEE EDS Delhi Chapter

Expert:
Professor Sneha Kabra,
Department of Instrumentation Shaheed Rajguru College of Applied Sciences, University of Delhi
Treasurer, IEEE EDS Delhi Chapter

Department of Electronics and Communication Engineering (ECE), National Institute of Technology (NIT) Delhi

In Collaboration with

IEEE Electron Device Society (EDS), Delhi Chapter

Date: Thursday (April 18, 2024)
Time: 10:00 AM Onwards
Venue: Main Auditorium, Administrative Building, NIT Delhi

Chief Patron:
Professor Ajay K Sharma
Director, NIT Delhi

Conveners: Dr. Manisha Bharti and Dr. Rikmantra Basu Department of ECE, NIT Delhi

All are Cordially Invited

Patron:
Professor Manoj Kumar
Head of the Department of ECE, NIT Delhi

Name of the Event	Organized By	Venue	Period	Organizer
Expert Disquisition on Comprehensive Guide to Intellectual Property Rights, Patents, Designs and Trademarks, organized by the ECE Department of NIT Delhi in association with the Indian Women Scientists' Association (IWSA) Delhi Branch. Expert Talk by Dr. Debashish Banerjee, Assistant Controller of Designs and Patens, Indian Patent Office Delhi, Ministry of Commerce and Industry, Govt. of India	ECE Department of NIT Delhi in association with the Indian Women Scientists' Association (IWSA) Delhi Branch.	NIT Delhi	April 19, 2024	Chairman: Prof. Manoj Kumar Convener: Dr. Rikmantra Basu and Dr. Manisha Bharti

NIPAM

NIPAM

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IPR Awareness Programs
Creative India; Innovative India

Name of the Event	Organized By	Venue	Period	Organizer
Short Term Course on Advances in Signal Processing, Communication and VLSI Design (ASPCV-2024) during April 22-27, 2024.	ECE Department, NIT Delhi	NIT Delhi	April 22-27, 2024	Chairman: Prof. Manoj Kumar Convener: Dr. Manisha Bharti and Dr. Sandeep Kumar

Name of the Event	Organized By	Venue	Period	Organizer
Hands-on Session on Digital Design Flow in FPGA and RTL to GDSII	Dept. of ECE, NIT Delhi	NIT Delhi	09-14, September 2024	Conveners: Dr. D.Vaithiyanathan Dr. Preeti Verma Coordinators: Dr. Baljit Kaur Dr. Manish Verma

Name of Event **Name of the Event**	**Organized By**	**Venue**	**Period**	**Organizer**
Design of SRAM circuits for low power and radiation hardened application	Dept. of ECE, NIT Delhi	Mini Campus NIT Delhi	16, October 2024	Coordinators: Prof. Jyoteesh Malhotra Dr. Sachin Agrawal Dr. Dharmendra Kr. Jhariya

Name of the Event	Organized By	Venue	Period	Organizer
First International Conference on Electronics, Communication and Signal Processing (ICECSP 2024)	ECE Department of NIT Delhi	NIT Delhi	August 08-10, 2024	Chair: Prof. Manoj Kumar Secretary: Dr. Rikmantra Basu and Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Organizer
24th IEEE International Conference on Numerical Simulation of Opto-electronic Devices (NUSDO) 2024	ECE Department of NIT Delhi	India Habitat Centre	September 23-26, 2024	Organizing Chair: Dr. Rikmantra Basu, NIT Delhi Dr. Kankat Ghosh, IIT jammu

Name of the Event	Organized By	Venue	Period	Organizer
The Future of Nanotechnology in VLSI	Dept. of ECE, NIT Delhi	NIT Delhi	18-23, November 2024	Conveners: Dr. V S Pandey Dr. Preeti Verma Coordinators: Dr. Harish Kumar Dr. D.Vaithiyanathan

Name of the Event	Organized By	Venue	Period	Organizer
Expert Lecture on "Variability-Aware Characterization of Memristors for Neuromorphic Applications"	Dept. of ECE, NIT Delhi	NIT Delhi	23, January 2025	Coordinators: Dr. Sandeep Kumar Dr. Manisha Bharti

Name of the Event	Organized By	Venue	Period	Organizer
Six days Short Term Course (STC) on topic “Analog ICs and Semiconductor Advancements in VLSI”’	Dept. of ECE, NIT Delhi	NIT Delhi	During 10th -15th February 2025	**Convener(s):** Dr. D. Vaithiyanathan Dr. Manish Verma **Coordinator(s):** Dr. Baljit Kaur Dr. Preeti Verma

The ECE Department of National Institute of Technology Delhi (Nit Delhi) organized a six-day Short-Term Course (STC) at the Institute from 10th to 15th February 2025. The event commenced with the traditional Indian ritual of lighting the lamp in honor of Mata Saraswati, the goddess of knowledge, symbolizing the start of a knowledge-driven program. The ceremony was graced by esteemed dignitaries including #Director, Prof. (Dr.) Ajay K Sharma, Registrar Prof. (Dr.) Hitesh Sharma, Dean (F&W) Prof. Manoj Taleja, HoD ECE Department Dr. Rikmantra Basu, Conveners Dr. Vaithiyanathan Dhandapani and Dr. Manish Verma, Coordinators Dr. Baljit Kaur and Dr. Preeti Verma, Dr. Manisha Bharati and Dr. Sandeep Kumar. Dr. Baljit Kaur, the program Coordinator, began by presenting an overview of the STC, outlining its objectives and key topics to be covered. The coordinators expressed their appreciation for the leadership and vision of Director Prof. (Dr.) Ajay K Sharma, along with Registrar Prof. (Dr.) Hitesh Sharma, by presenting them with mementos as a token of gratitude. In his inaugural address, Director Prof. (Dr.) Ajay K Sharma emphasized the significance of the STC and the role it plays in advancing knowledge in the field of VLSI and semiconductor industry. He highlighted the importance of such courses in shaping future engineers and commended the department’s efforts in organizing the program. Following this, Director Prof. (Dr.) Ajay K Sharma expressed his gratitude by presenting mementoes to all the team Conveners and Coordinators for organizing the program. After that Convener Dr. Manish Verma provided an overview of the expert talks scheduled for all six days. Following the inauguration, the first session was delivered by Dr. Udit kumar on the topic "Semiconductor ecosystem". The program concluded with the vote of thanks by the Convener Dr. Vaithiyanathan Dhandapani.

Semiconductor Ecosystem

Name of the Event	Organized By	Venue	Period	Organizer
on "5G radio network planning using Altair. WinProp."	Dept. of ECE, NIT Delhi	NIT Delhi	March 25, 2025	**Coordinators:** Dr. Dharmendra K. Jhariya Dr Sachin Agrawal

Name of the Event	Organized By	Venue	Period	Organizer
Six days workshop on "Beyond Connectivity: The Evolution of Next-Gen IoT with Hands on Experience"	National Institute of Technology, DELHI Department of Science & Technology (DST), Government of India in collaboration with iHub - AWaDH@IIT Ropar NIT Delhi	NIT Delhi	March 19-24, 2025	**Convener**: Dr. Dharmendra K. Jhariya **Coordinators:** Dr. Mahesh K. Singh Dr Anurag Singh Dr Pankaj Mukhija Dr Anmol Ratan Saxena and Dr Sahil

Name of the Event	Organized By	Venue	Period	Organizer
Seminar on "Career Opportunities for Engineering Students in Management"	National Institute of Technology, DELHI	NIT Delhi	March 26, 2025	Coordinators: Dr. Sandeep Kumar Dr. Manisha Bharti

A seminar titled "Career Opportunities for Engineering Students in Management" was organized by the Department of Electronics and Communication Engineering, NIT Delhi, on March 26, 2025. The event was organized (as Secretary) by Dr. Sandeep Kumar (Assistant Professor, ECE Department) and Dr. Manisha Bharti (Associate Professor, ECE Department). The seminar was aims to guide students in preparing for competitive exams such as CAT and GMAT and enhance their personality development skills, which play a crucial role in campus recruitment and career progression. To enrich the seminar, industry experts, including alumni from IIMs and other top business schools, in collaboration with the Career Launcher team, were invited to deliver insightful talks.

Name of the Event	Organized By	Venue	Period	Organizer
one Week Short-Term (STC) Course on "AI-Driven Signal Processing & VLSI for Wireless Communication (ASPVWC-2025)"	National Institute of Technology, DELHI	NIT Delhi	April 21-26, 2025	Coordinators: Dr. Sandeep Kumar Dr. Manisha Bharti

A one Week Short-Term (STC) Course on **"AI-Driven Signal Processing & VLSI for Wireless Communication (ASPVWC-2025)"** was organized by ECE Department of NIT Delhi during **April 21-26, 2025**. This program was coordinated by **Dr. Manisha Bharti** (Associate Professor, ECE Department) and **Dr. Sandeep Kumar** (Assistant Professor, ECE Department). The course focused on the pivotal role of advanced signal processing techniques and VLSI design in the development of next-generation wireless communication systems. It emphasized how Artificial Intelligence enhances conventional signal processing approaches to optimize data transmission, spectral efficiency, and overall system reliability. The program also explored the integration of intelligent algorithms into scalable and energy-efficient VLSI architectures, crucial for real-time and low-power wireless applications. This STC was designed for **researchers, academicians, and industry professionals** interested in the convergence of **AI, signal processing, and VLSI** in shaping the future of wireless technologies. **Experts from the different IITs/NITs/IITs/other reputed Indian and Foreign institutes** were invited to deliver lectures in this course. More than 90 participants from various working/ teaching/ research professions have registered in this online STC.

AI-Driven Signal Processing & VLSI for Wireless Communication (ASPVWC-2025)

April 21 - 26, 2025 (Hybrid Mode)

For Any Query Contact

sandeep@nitdelhi.ac.in

+91-9233811155 / +91-9532048800

Dept. of ECE, NIT Delhi, Delhi-110036

www.nitdelhi.ac.in

List of Experts

- Prof. (Dr.) Manisha Aggarwal, IIT Delhi
- Prof. (Dr.) Manoj R. Bhatnagar, IIT Delhi
- Prof. (Dr.) Jaswar Singh, IIT Patna
- Prof. (Dr.) Dhanshyam Singh, University of Johannesburg, South Africa
- Prof. (Dr.) Rashmi Gupta, NSUT Delhi
- Dr. Mourina Ghosh, IIIT Guwahati
- Dr. Jajitara Hazarika, NIT Silchar
- Prof. (Dr.), Manju Khari, JNU, New Delhi
- Dr. Deepti Kakkar, NIT Jalandhar
- Dr. W. Vanlalawa Devi, NIT Manipur
- Dr. Ravi Kumar Arya, Zhongzhou Institute of Changzhun University of Science and Technology, China.

Organizing Committee

- **Chief Patron**
  Prof. (Dr.) Ajay K. Sharma
  Director, NIT Delhi
- **Patron**
  Dr. Bibekananda Bera
  HOD, Department of ECE, NIT Delhi
- **Coordinators**
  Dr. Manisha Bharti
  Associate Professor
  Department of ECE, NIT Delhi
  Dr. Sandeep Kumar
  Assistant Professor
  Department of ECE, NIT Delhi

About National Institute of Technology Delhi (NITD)

NITD is one of the thirty-one NIT (s) established in the year 2010 by an act of parliament and has been declared as an Institute of National Importance. NIT Delhi is an autonomous institute which functions under the aegis of Ministry of Education, 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 advance learning and dissemination of knowledge. Currently, the institute offers B.Tech. programs in Computer Science and Engineering, Electronics and Communication Engineering, VLSI Design, Electrical and Electronics Engineering, Mechanical and Aerospace Engineering and Civil Engineering. The institute also offers M.Tech. and Ph.D. programs in all streams.

About the Department

The department of Electronics and Communication Engineering was established in 2010, immediately with the beginning of the institute under the aegis of Ministry of Human Resource and Development (MHRD), Govt. of India. Currently it is offering Undergraduate (B. Tech.) course and Post Graduate (M. Tech.) courses in ECE and in VLSI Design. The Department offers PhD programme in areas like signal Processing, communication, VLSI design, electronic devices and circuits, electronic measurement and instrumentation, microprocessor and microcontroller, microwave and antenna design, optical fibre communication and optical device.

About Course

The STC on 'AI-Driven Signal Processing & VLSI for Wireless Communication' focuses on the critical role of advanced signal processing techniques and VLSI design in the evolution of modern wireless systems. It highlights how AI enhances traditional signal processing methods to improve data transmission, spectral efficiency, and system reliability. The program also explores the integration of these intelligent algorithms into efficient and scalable VLSI architectures, essential for real-time and low-power wireless communication. This STC is tailored for researchers, academicians, and professionals keen on understanding the synergy between AI, signal processing, and VLSI in shaping the future of wireless technologies.

How to Register

The interested candidates can register through the following link:-

Registration Link:- https://forms.gle/JvHSqSTGtYtMfYy9

The registration fee for the course is as follows:

UG/PG/PhD: INR 330

Faculties: INR 440

Industry personals: INR 550

The candidates can deposit the registration fee online in the account details given below:-

Bank Name:- Bank of Baroda

Bank Account Name:- NITS NATIONAL INSTITUTE OF TECHNOLOGY DELHI

Bank Account no.:- 30220100003364

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Name of the Event	Organized By	Venue	Period	Organizer
Six days STC on "Silicon to Systems: Advancing VLSI Design in an AI and Quantum-Conscious Era"	Department of ECE, National Institute of Technology, DELHI	NIT Delhi	August 27-September 2, 2025	**Convener**: Dr. V S Pandey Dr Preeti Verma **Coordinators:** Dr. D Vaithiyanathan Dr Manish Verma

Name of the Event	Organized By	Venue	Period	Organizer
One Day Workshop on "COMSOL Technical Day"	Department of ECE, National Institute of Technology, DELHI	NIT Delhi	September 10, 2025	**Coordinators:** Prof. Manoj Kumar Dr. Rikmantra Basu

Name of the Event	Organized By	Venue	Period	Organizer
Two Days' Workshop on Advanced Photonic System Simulations with Optiwave - 2025	Department of ECE, National Institute of Technology, DELHI	NIT Delhi	November 26-27, 2025	**Coordinators:** Prof. Jyoteesh Malhotra Dr. Manisha Bharti