

Committee

Chief-Patron	Prof. Dilip Kumar Baidya Director, NIT Silchar
Patrons	Prof. Rabul Hussain Laskar Dean (Research & Consultancy)
Chairman	Dr. Koushik Guha HOD, ECE, NIT Silchar
Vice-Chair	Prof. Fazal Ahmed Talukdar Professor (HAG), ECE
	Prof. Srimanta Baishya Professor (HAG), ECE
	Dr. Trupti R. Lenka, EDS BoG Member and SBC Advisor

Advisory Committee

Prof. Brinda Bhowmick	Dr. Ashraf Hossain
Dr. Madhumita Banerjee	Dr. Himanshu Karan
Dr. Wasim Arif	Dr. Rajesh Saha
Dr. S. K. Tripathy	Dr. Partha Saha
Dr. Kavicharan Mummaneni	Dr. Harishore Singh
Dr. Devendra Singh Gurjar	Dr. Paramita Sarkar
Dr. Bijit Choudhuri	Dr. Debjani Goswami

Important Dates

Last Date of Registration: 5th-August-2026

Workshop Dates: 7th to 11th August 2026

Eligibility of Participation

This program is open to Faculty Members, Research Scholars, and M.Tech. / M.Sc. and B.Tech. Students of technical institutions, engineering colleges, polytechnics, universities and other recognized

institutions. Shortlisted candidates will be communicated through email. Certificates will be issued to all participants having attendance above 90%.

Accommodation and Travel

Please note that TA/DA or accommodation will not be provided to the participants. However, refreshments will be arranged for all participants during the workshop. Lunch will be arranged for external participants in the institute guest house.

Registration



Registration Fee for external participants INR 200/- . Scan the QR code to pay the registration fees. Complete your registration process by fill up the below google form. No fee for internal participants.

<https://forms.gle/QHCYRou5TVJWyeZ8>

Convener

Dr. Pukhrambam Puspa Devi
Assistant Professor, Dept. of Electronics & Communication Engineering, NIT Silchar
Email: puspa.devi@ece.nits.ac.in |
Mobile: 7005665458

Co-Convener

Dr. Sucharita Chakraborty
Assistant Professor, Dept. of Electronics & Communication Engineering, NIT Silchar
Email: sucharita@ece.nits.ac.in |
Mobile: 9474698163

Dr. Ambrish Devanshu
Assistant Professor, Dept. of Electrical Engineering, NIT Silchar
Email: ambrish@ee.nits.ac.in |
Mobile: 9599755664



Anusandhan National Research Foundation (ANRF) Funded 5-Days Workshop



On

Next-Generation Semiconductor Photonic Devices for Smart and Sustainable Communication Systems (NG- SPS²CS)

Co-Sponsored by IEEE EDS

7th to 11th August 2026

Organized By:



Electronics & Communication Engineering Department, National Institute of Technology Silchar

In Association with IEEE EDS NIT Silchar SBC

About the Department

The Department of Electronics & Communication Engineering offers a four-year B. Tech. program and two-year M. Tech. programs in “Microelectronics and VLSI Design”, “Communication and Signal Processing Engineering”, “RF and Terahertz Communications”, and Ph.D. in various areas of the discipline. Two PG Programs (M. Tech. in ME&VLSID and M. Tech. in CSPE) are NBA accredited. The faculties of the department have a wide variety of expertise with a strong academic background and are alumni of reputed institutes around the world. The various specializations like Artificial Intelligence, Device modelling, MEMS devices, optoelectronics, Antenna, RF microwave, Wireless Networks, Image Processing, etc.

About NIT Silchar

National Institute of Technology, Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam. In 2002, it was upgraded to the status of National Institute of Technology and was declared as Institute of National Importance under the National Institutes of Technology Act, 2007. NIT Silchar is a fully residential campus situated on the banks of river Barak and on a sprawling campus spread over 625 acres of land surrounded by scenic tea gardens on the outskirts of Silchar. NIT Silchar is a leading teaching and research institute, reflected in its NIRF ranking of 50th in the Engineering category and 97th in the Overall category

About the Course

The workshop on **Next-Generation Semiconductor Photonic Devices for Smart and Sustainable Communication System** encourage interdisciplinary

interaction and collaboration among experts in electronics, photonics, materials science, and communication engineering to address key challenges in designing sustainable communication technologies. Rapid progress in electronic and photonic device technologies has significantly influenced the evolution of modern communication infrastructures, making it essential to develop next-generation communication systems that support emerging applications such as smart cities, autonomous transportation, precision agriculture, and environmental monitoring.

Course Objective

- Dissemination of recent advancements in next-generation semiconductor photonic devices for smart and sustainable communication systems.
- Explore advanced materials and device architectures enabling high-speed, energy-efficient optical communication.
- Examine the integration of photonic technologies with terrestrial and satellite networks for global connectivity and next-generation wireless systems.
- Highlight emerging paradigms such as Integrated Sensing and Communication (ISAC), IoT, and AI-enabled intelligent communication networks.
- Address challenges such as scalability, integration, reliability, and cost-effectiveness of photonic devices.
- Encourage students and young researchers to engage in emerging research areas in photonics, semiconductors, and next-generation communication technologies.
- Focus on applications in smart systems, smart cities, and sustainable digital infrastructure while facilitating capacity building and skill

development through expert lectures, case studies, and hands-on training sessions.

REGISTRATION FORM

ANRF Funded Workshop on Next-Generation Semiconductor Photonic Devices for Smart and Sustainable Communication Systems [7th to 11th August 2026]

Co-Sponsored by IEEE EDS

1. Name (block letter): _____

2. Designation: _____

3. Organization and Department: _____

4. Address for communication: _____

_____ Pin code: _____

5. Ph. No.: _____

6. E-mail: _____

7. Educational Qualification: _____

Place:

Date:

Signature of the applicant Signature of the HoD



अनुसंधान नेशनल रिसर्च फाउंडेशन



Anusandhan National Research Foundation (ANRF) funded

Five-Days Workshop on

**Next-Generation Semiconductor Photonic Devices
for Smart and Sustainable Communication Systems**

NG-SPS²CS-2026

Programme Schedule

07th – 11th August 2026 (Hybrid Mode)

**Department of Electronics and Communication Engineering,
NIT Silchar**

**Day 01
07.08.2026 (Friday)**

**Inauguration
10:00 AM**



**Prof. Srinivas
Talabattula
IISc Bangalore
11:00 AM to 12:30 PM
(IST)**



**Prof. Ravi Kumar
Maddila
NIT Jaipur
4:30 PM to 6:00 PM (IST)**

**Day 02
08.08.2026 (Saturday)**



**Prof. Bijoy Krishna Das
IIT Madras
11:00 AM to 12:30 PM
(IST)**



**Prof. Swades De
IIT Delhi
4:30 PM to 6:00 PM (IST)**

**Day 03
09.08.2026 (Sunday)**



**Dr. Manoj B. R.
IIT Guwahati
11:00 AM to 12:30 PM
(IST)**



**Dr. Basabdatta Palit
IEST Shibpur
4:30 PM to 6:00 PM (IST)**

**Day 04
10.08.2026 (Monday)**



**Prof. Ghanshyam Singh
NIT Jaipur
11:00 AM to 12:30 PM
(IST)**



**Dr. W. Vandana Devi
NIT Manipur
4:30 PM to 6:00 PM (IST)**

**Day 05
11.08.2026 (Tuesday)**



**Prof. Biplab Sarkar
IIT Roorkee
10:30 AM to 12:00 PM
(IST)**



**Prof. Brinda
Bhowmick
NIT Silchar
4:30 PM to 6:00 PM
(IST)**