



NITS प्रगति वार्ता

PRAGATI VARTA

Biannual Newsletter of NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR



WORDS FROM THE DIRECTOR

It is with great pride and enthusiasm that I introduce you to the second volume of *Pragati Varta*, the official newsletter of NIT Silchar. This publication reflects the dynamic and progressive journey of our institution, providing interesting insights into the vibrant life on our campus.

As the name *Pragati* suggests, our institute is on a perpetual upward trajectory, and the newsletter highlights our recent advancements in cutting-edge research and academic excellence, as well as our notable achievements across technical, cultural, sports, and societal domains. *Pragati Varta* functions as a collective narrative that unites the NIT Silchar community. I encourage every member of our institute to actively engage with, read, and contribute to the newsletter.

I extend my heartfelt appreciation to the editorial team for its unwavering dedication and meticulous effort in bringing this issue to completion. May this publication continue to inspire us all to attain greater heights and cultivate a continuous spirit of shared success.

Prof. Dilip Kumar Baidya

Director, NIT Silchar

EDITORIAL NOTE

With an avid sense of accomplishment and joy, the editorial team welcomes you to this issue of *Pragati Varta* (Vol. II, Issue I) - the official newsletter of NIT Silchar. The present edition offers more than a mere record of the past six months; it exemplifies the dedication of our community. In the following pages, you will find milestones in research, technological innovation, student-led activities, and entrepreneurship. Each narrative emphasises our uncompromising commitment to excellence.

We extend our heartfelt gratitude to everyone who contributed to this issue: our dedicated writers, Obiettivo (the photography club of NIT Silchar), and most importantly, our departmental coordinators - Dr. Debayan Sarkar (Electrical), Dr. Purushottam Kumar Singh (Mechanical), Dr. Dipanjan Mukherjee (Civil), Dr. Anup Kumar Sharma (E&EI), Dr. Chandrajit Choudhury (ECE), Dr. Ramanujam E. (CSE), Dr. Papri Sutar (Chemistry), Dr. Susmita Rabha (Physics), Dr. Arijit Jana (Maths), and Dr. Rama Koteswara Rao Kondasani (MBA). Their efforts have played a defining role in shaping the newsletter's present form.

As you read this edition of *Pragati Varta*, we hope it fosters a shared sense of pride, ignites new ideas, and motivates you to actively participate in the ongoing and extraordinary story of NIT Silchar.

Editorial Team

NITS *Pragati Varta*, NIT Silchar

EDITORIAL TEAM



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INSTITUTE ACHIEVEMENTS

- The performance of **NIT Silchar** in the **QS Asia University Rankings 2026** reflects its steady progress and growing recognition in the higher education landscape. The institute has been placed in the **541–560 band across Asia**, indicating its position among a large pool of competitive universities in the region. In addition, it has secured the **146th rank** in the **Southern Asia subregion**, highlighting its standing among institutions in countries such as India, Bangladesh, and Sri Lanka. The ranking underscores the institution's ongoing commitment to strengthening academic quality, research output, and institutional reputation. Over the years, NIT Silchar has consistently worked to enhance its teaching standards, infrastructure, and global engagement, contributing to its upward trajectory. Overall, its presence in the ranking testifies to its current achievements and its potential to emerge as a prominent centre of higher learning in Asia. We take this opportunity to thank all the members of NIT Silchar for helping the institute to secure this rank.



- **NIT Silchar** has marked a significant achievement by securing a position in the **801–1000 band** of the **Times Higher Education World University Rankings 2026**. This recognition depicts the institute's expanding global footprint and its sustained commitment to academic and institutional excellence. The ranking takes into account key parameters such as research output, teaching quality, citations, industry income, and international outlook - all of which demonstrate NIT Silchar's balanced growth. Over time, the institute has strengthened its academic ambience, enhanced its research capabilities, and fostered collaborations that have enhanced its international visibility. This accomplishment not only reinforces its reputation within India but also cements its place on the global stage. As it continues to build on these strengths, NIT Silchar remains well-positioned to further elevate its standing among leading institutions worldwide.

77th REPUBLIC DAY CELEBRATION



With patriotic fervour, NIT Silchar marked India's 77th Republic Day on 26 January 2026. The day began with the honourable **Director, Prof. Dilip Kumar Baidya**, hoisting the tricolour at the Football Ground. It was followed by formal events such as a Guard of Honour, a parade by students of various hostels, NSS, NCC, and KV NITS contingents, a cane drill, and the Director's address. The event culminated with the singing of the national anthem. The celebration, promoting national unity, also featured cultural performances, a blood donation camp at the SAC building, and a prize distribution ceremony.

XXIII CONVOCATION OF NIT SILCHAR



On 15 November 2025, NIT Silchar held its 23rd Convocation with great pride. The Chief Guest of the event was Shri Dr. Sukanta Majumdar (Minister of State in the Ministry of Education and Minister of State in the Ministry of Development of North Eastern Region, GoI). The Distinguished Guest, Shri Prof. Damodar Acharya and the Guest of Honour, Shri Dr Binoy Kumar Das, graced the convocation with their presence. The convocation was presided over by the honourable Director, Prof. Dilip Kumar Baidya. The event honoured the graduating Class of 2025 as degrees were conferred across all academic programmes.

MSME Workhop

NIT Silchar is happy to share that the five **One-Day Awareness Program** and **One-Day National Level Awareness Program cum Workshop** under the **Design and Innovation Scheme of MSME**, funded by the **Ministry of Micro, Small, and Medium Enterprises (MSME)**, were successfully organised in 2025-26. The five awareness events were conducted at different locations, including **K.V. NIT Silchar (13.01.2026)**, **Gurucharan University, Silchar (17.01.2026)**, **Barak Valley Engineering College, Sribhumi (31.01.2026)**, **Barak Valley Public School, Silchar (14.02.2026)**, and **Silchar Polytechnic, Silchar (28.02.2026)**. The national-level awareness program cum workshop was held at the **Guesthouse auditorium, NIT Silchar (21.03.2026)**.

The aim of the awareness program and workshop was to raise public awareness of innovation, design, entrepreneurial opportunities, and various MSME schemes. More than 450 participants attended these events. The program was organised around three expert talks and one hands-on training session by MSME/start-up units.

The experts for the events were **Prof. Promod Kumar Patowari**, NIT Silchar, **Prof. Nalin Behari Dev Choudhury**, NIT Silchar, **Dr. A. B. Deoghare**, NIT Silchar, **Dr. Shantimoy Kar**, IIT Kharagpur, **Prof. Parag Shil**, Assam University, **Mr. Saroj Kumar Koiri**, Raamor Group, **Prof. Prodipto Das**, Assam University, **Dr. Anagha Bhattacharya**, NIT Mizoram, **Dr. Ashish Singh Patel**, NIT Mizoram, **Shri Sumit Ganesh Gundayya**, Assistant Director, MSME- DFO Silchar, and **Shri Swapnil V Deshmukh**, Assistant Director, MSME- DFO Silchar. The experts for the national-level awareness program cum workshop are **Dr. Vivek Kumar Rai**, IIM Kolkata, **Dr. Suvrokamal Dutta**, Economy and Foreign Policy Expert, and **Prof. Promod Kumar Patowari**, NIT Silchar.

Dr. Badal Soni, **Dr. Sucharita Chakraborty**, **Dr. Tapan Pradhan**, **Dr. Biswarup Ganguly**, **Dr. Biswanath Ghose**, **Dr. Santan Kumar**, **Dr. Bijan Kumar Roy**, **Dr. Dibya Nandan Mishra**, **Dr. Vipin Chandra Pal**, **Dr. Somnath Santra**, and **Dr. Abhishek Paul** acted as the coordinators of the program.



CONFERENCES

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Department of Electronics and Instrumentation Engineering organised an international conference on 'Emerging Electronics and Automation' from 17 to 19 December 2025. The conference on **Emerging Electronics and Automation 2025 (e2A 2025)**, sponsored by **Springer Nature**, aimed to foster innovation and interdisciplinary research in emerging technologies. The conference brought together eminent academicians, researchers, industry experts, and students from across the globe.

The event was graced by distinguished dignitaries, including the **Chief Guest, Prof. Balaji Ramakrishnan, Director of the National Institute of Ocean Technology**, as well as renowned keynote speakers from premier institutions such as IIT Delhi, NIT Delhi, Technische Universität Dresden, and the University of Technology Sydney. With seven focused tracks and active participation in both offline and online modes, e2A 2025 provided a vibrant platform for knowledge sharing, collaboration, and technological advancement. **Dr. Sudarsan Sahoo** and **Dr. Anup Kumar Sharma** were the chairpersons, and **Dr. Rajdeep Das Gupta, Dr. Jupitara Hazarika, Dr. Shankar K.,** and **Dr. Vipin Chandra Pal** were part of the organising committee of the conference.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The IEEE EDS mini-colloquium and 6th international conference on 'Micro/Nanoelectronics Devices, Circuits, and Systems' (MNDCS-2026) was successfully organised by **IEEE Electron Devices Society (EDS) NIT Silchar Student Branch Chapter** in association with **IEEE Nanotechnology Council Chapter**, and **Department of Electronics and Communication Engineering, NIT Silchar** from 29 to 31 January 2026. MNDCS-2026 is an international flagship event concentrating on the cutting-edge of Microscale & Nanoscale Electronics, Semiconductor Devices, VLSI Circuits, Systems, MEMS/NEMS, and emerging technology trends. The conference aimed to promote advanced research and collaboration among academicians, researchers, technologists, scientists, and industry experts worldwide.



- Hosted EDS Distinguished Lectures (DLs) by **Prof. Mario Lanza Martinez**, NUS Singapore, **Prof. Manoj Saxena**, University of Delhi, **Prof. Frank Schwierz**, Privatdozent Emeritus at TU Germany, **Prof. Lluís F. Marsal**, University Rovira i Virgili, Tarragona, Spain.
- **Keynotes** delivered by **Prof. Sushmee Badhulika**, IIT Hyderabad, **Prof. Dr.-Ing. Milos Krstic**, IHP Microelectronics, Germany, **Prof. Udai P. Singh**, KIIT Deemed to be University, Bhubaneswar, **Prof. Angsuman Sarkar**, Kalyani Government Engineering College, **Dr. Pratim Sengupta**, CEO, Nephro Care India Ltd, **Prof. Sanghun Jeon**, KAIST, South Korea, and **Prof. Rakesh Vaid**, University of Jammu.
- Invited talks by **Dr. Vinod Belwanshi**, CSIR–NML, Jamshedpur, **Dr. Asisa Kumar Panigrahy**, ICFAI Tech, **Dr. Mukesh Kumar Sukla**, Director, VLSIPro Technologies Pvt Ltd, and **Dr. Sreya Chattopadhyay**, Director, BizInnovation Pvt Ltd.



DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

Department of Humanities and Social Sciences hosted a vibrant two-day national conference on '**Bharatiya Bhasha Pariwar**' from 29 to 30 December 2025. The event featured thought-provoking addresses by **Prof. Ramesh Chand Sharma**, **Prof. Shailendra Kumar Singh**, **Dr. Mary Kim Haokip**, and **Dr. Baby Puspa Singha**. They reminded the gathering of the deep cultural connections that bind Indian languages and emphasised the importance of reclaiming indigenous linguistic thought through **Bauddhik Swaraj**. The conference also had a plenary session by **Dr. Memthoibi Devi** and **Dr. Hemanta Kumar Bora**, who revisited Assamese–Bengali relations through the lens of historical contact and coexistence. The conference coordinators were **Dr. Reena Sanasam** and **Dr. Panchali Bhattacharya**.



From 28 to 29 March 2026, **Department of Humanities and Social Sciences** organised a two-day national conference titled, '**The Decolonisation Project and Tribal Ethnic Identities in India through the Times.**' The invited speakers of the event were **Prof. Sajal Nag** and **Dr. Manjeet Baruah**. Spread over two days, the conference offered a platform to young scholars and early-career researchers to showcase their works on diverse fields such as oral tradition, literary representation of tribal customs, socio-cultural dynamics of tribal societies, and decolonial project aimed at upliftment of tribal communities in India. **The event was supported by the Indian Council of Social Science Research - North East Regional Centre (ICSSR-NERC).** The coordinators were **Dr. Reena Sanasam** and **Dr. Shashi Kumar GK**.

WORKSHOPS

DEPARTMENT OF ELECTRICAL ENGINEERING

- **Dr. Tanmoy Malakar, Dr. Rajeeb Dey, and Dr. Partha Kayal** convened a two-day workshop on '**Green Energy Practices, Opportunities and Challenges at Government Organisations and our Role**' from 8 to 9 November 2025, offering a learning experience to all the participants.



- **Dr. Sreenu Sreekumar** convened the **Bhutan India Friendship** workshop on '**Empowering Climate Action: AI, IoT, Robotics, and Artistic Fusion for a Sustainable Indo-Bhutan Future.**' The organising institutions were **Jigme Namgyal Engineering College, Dewathang, Samdrupjongkhar, Bhutan, National Institute of Technology Silchar, Assam, India, College of Science and Technology (CST), Phuentsholing, Bhutan, IIT Guwahati, Assam, India, NIT Sikkim, Sikkim.** The funding Agency of the event was **India-Bhutan Foundation (IBF).**

- **Dr. Tanmoy Malakar, Dr. Sreejith S., Dr. Biswajit Sahoo, Dr. Biswarup Ganguly, and Dr. Debayan Sarkar** jointly organised a five-day offline workshop titled, '**Rising Beyond: Humanity's Journey to Perfection (RISE 2026)**', held from 30 January to 3 February 2026. The workshop aimed to inspire participants through reflective discussions, interdisciplinary insights, and transformative learning experiences focused on personal growth and human potential.



- **Dr. Debayan Sarkar and Dr. Vivekanandan S.** organised a five-day Online Industry-Driven Short-Term Training Program (STTP) titled '**Power Sector Transformation for a Sustainable and Reliable Future: Industry Perspectives and Practical Insights (PSRIP 2026)**,' held from 7 to 11 March 2026. The program brought together academic and industry expertise to explore emerging challenges, innovations, and practical approaches shaping the future of the power sector.

DEPARTMENT OF CIVIL ENGINEERING

- **Department of Civil Engineering** organised a five-day offline training program on '**Building Sustainable and Resilient Rural Roads: Advanced Practices for Hilly Terrains**'. It was held from 18 to 22 February 2026. **The event was funded by the National Rural Infrastructure Development Agency (NRIDA), Ministry of Rural Development, Government of India.**



- **Department of Civil Engineering** organised a one-week workshop on '**Recent Computational Advances in Water Resources Modelling and Management**' (RCA-WRMM-2025). It was held from 18 to 22 November 2025. **It was funded by the Anusandhan National Research Foundation (ANRF), Government of India.**



DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

- Organised the **21st Bootcamp** on '**Drone Technology and Related Applications**' in NIT Silchar under 'Capacity Building from Human Resource Development in Unmanned Aircraft Systems' from 2 to 6 February 2026. **It was funded by MeiT.**
- Organised the **22nd Bootcamp** on '**Drone Technology and Related Applications**' in BVEC Karimganj under 'Capacity Building from Human Resource Development in Unmanned Aircraft Systems' from 9 to 13 February 2026. **It was funded by MeiT.**
- Organised the **23rd Bootcamp** on '**Drone Technology and Related Applications**' in Assam University under 'Capacity Building from Human Resource Development in Unmanned Aircraft Systems' from 16 to 20 February 2026. **It was funded by MeiT.**
- Organised the **24th Bootcamp** on '**Drone Technology and Related Applications**' in NIT Meghalaya under 'Capacity Building from Human Resource Development in Unmanned Aircraft Systems' from 23 to 27 February 2026. **It was funded by MeiT.**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- **Department of Computer Science and Engineering** organised a five-day self-sponsored Online STTP - '**Machine Intelligence and Wearable Sensor Data Analysis**' from 27 to 31 January 2026 under the aegis of **India AI Impact Summit 2026**. The event was convened by **Dr. Badal Soni** and **Dr. Ramanujam E.** Around 43 students and 21 faculty members participated from all over India. Expert Speakers from IITs, NITs, and IIITDM Kancheepuram, and ABV-IIITM Gwalior had delivered talks with hands-on experience.



- **Department of Computer Science and Engineering**, jointly in collaboration with the **Institute's Innovation Council (IIC 8.0)**, organised an awareness workshop on '**AI and Industry 4.0**' on February 7, 2026. It was convened by **Dr. Malaya Dutta Borah** and **Dr. Ramanujam E.** Around 68 undergraduate students of various institutions in Barak Valley participated in the event. **Mr. Parveen Bhat**, Chief Engineer, ONGC, Silchar, **Dr. Mousam Handique**, Associate Professor, Assam University, Silchar, and **Dr. Saroj Kumar Biswas**, Associate Professor, NIT Silchar, had delivered talks in the event.



DEPARTMENT OF CHEMISTRY



Department of Chemistry, in association with **IIC 8.0**, National Institute of Technology Silchar, successfully organised a five-day workshop titled '**Advanced Analytical Techniques for Materials Characterisation and Skill Development**' from 6 to 10 March 2026 in hybrid mode at the Bhupen Hazarika Auditorium, Central Library, NIT Silchar. There were 121 participants in the workshop, including undergraduate, postgraduate, and PhD students from different colleges and research institutes in India.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IEEE Electron Devices Society (EDS) mini-colloquium on 'Trends in Nanoelectronics and Photovoltaics' was held in hybrid mode from 29 to 30 January 2026 at NIT Silchar. It was organised by the IEEE EDS NIT Silchar Student Branch Chapter in collaboration with the IEEE Kolkata Section Nanotechnology Council Chapter and the Department of Electronics and Communication Engineering, NIT Silchar, alongside MNDCS-2026. The event featured four distinguished lectures by Prof. Mario Lanza Martinez, Prof. Frank Schwierz, Prof. Lluis F. Marsal, and Prof. Manoj Saxena. The occasion also marked the celebration of 100 Years of FET with a cake-cutting ceremony followed by Prof. Saxena's lecture.



DEPARTMENT OF MANAGEMENT STUDIES

Department of Management Studies organised a one-day national awareness programme under the Scheme of Design and Innovation of MSME on 14 February 2026. The workshop, organised at Barak Valley Public High School, focused on design thinking and innovation for MSMEs. Four expert speakers discussed government schemes, IP, and commercialisation. Around 50 participants engaged actively, gaining practical insights, and the programme concluded by encouraging innovation-driven entrepreneurship among young minds.



Entrepreneurship Awareness Programme (EAP) under the MSME initiative was organised by the Department of Management Studies at NIT Silchar on 17 February 2025. The resource person for the event were Mr. Pranab Kumar Chaudhuri, Representative, CTC Bhuvanewar and Mr. Satyajit Panda, Representative, CTC Bhuvanewar. The primary objective of the programme was to familiarise students with the opportunities and support systems available for pursuing entrepreneurship as a viable career path. The event focused on the importance of entrepreneurship in driving economic growth and innovation. The speakers highlighted the crucial role of the MSME sector in strengthening India's economy by promoting micro, small, and medium enterprises through various policy initiatives, financial schemes, and skill development programmes.

DIVERSE DEPARTMENTAL ACTIVITIES

DEPARTMENT OF CHEMISTRY

- **Department of Chemistry** in association with **IIC 8.0** organised a five-day workshop on '**Advanced Analytical Techniques for Materials Characterization and Skill Development**' from **6th to 10th March 2026** at **Bhupen Hazarika Auditorium, Central Library, NIT Silchar**.

DEPARTMENT OF MATHEMATICS

- **Department of Mathematics** organised an invited talk on '**Creative Mathematics**' in the **GANITOTSAV** on **National Mathematics Day** at Indira Gandhi Tribal National Institute of Technology, Amarkantak, on 14 January 2026.
- **Department of Mathematics** organised three invited talks on '**Play with Mathematics**', '**Conceptual Probability**', and '**Graphs in real life**' in the Teachers' Enrichment Workshop on Mathematical Problem Solving, Gurucharan University, Silchar, from 9 to 13 December 2025.

DEPARTMENT OF ELECTRICAL ENGINEERING DEPARTMENT

- **Joint PhD** between **India-France (NITS Silchar-Université de Reims Champagne-Ardenne)** has been approved by the 90th Senate & 111th BoG of NIT Silchar. Under this program, a research scholar from the control research group of the **Electrical Engineering Department** will undertake a joint PhD in the **Project titled Cyber-RESIST (Cyber-resiliency of industrial cyber-physical systems)**, partially funded by **URCA France**. The joint supervisors for the PhD program under Cyber-RESIST project are **Dr. Rajeeb Dey** from **NIT Silchar** and **Dr. Nadhor Messei** from **URCA, France**.
- An academic and research collaboration was signed between **Damodar Valley Corporation**, Kolkata (industrial) and **EED NIT Silchar** (Joint Workshop).
- A research collaboration was initiated among IIT Guwahati, NIT Hamirpur and NIT Andhra Pradesh, and EED NIT Silchar (Joint Publications).

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

- **Thermax Limited** has organised a **Grand Innovation Challenge, Innomax**. **Team Heisenberg** of NIT Silchar has been shortlisted for the Grand Finale of Innomax, alongside top national-level teams. Thermax Limited congratulated the students and the faculty (Dr. Koena Mukherjee) for this achievement and appreciated NIT Silchar for its continued support in encouraging innovation and experiential learning. Also, for the final phase scheduled in mid-April 2026, a prototype has to be developed for which the company Thermax Ltd. provided a modest amount to the team of NIT Silchar.
- **Basudev Rawat (2315028), B.Tech Electronics and Instrumentation Engineering**, received the prestigious **Saxon Student Mobility Program** scholarship and will be pursuing research at **Technische Universität Chemnitz** in **Germany** from **August to November 2026**.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

- Faculty members and research scholars from the **Department of Electronics and Communication Engineering** of NIT Silchar participated in **Bharat Innovates 2026** held at the Indian Institute of Technology Gandhinagar from 18 to 20 December 2025. At the event, a research team led by **Prof. K.L. Baishnab** and **Dr. Koushik Guha** showcased its innovation on the early prediction of epileptic seizures, aimed at enabling timely medical intervention and improving the quality of life of patients.
- **Department of Electronics and Communication Engineering** is happy to share that the department emerged as the **Badminton Champion** in both the **Men's** and **Women's categories** at the **Inter-Departmental Table Tennis and Badminton Tournament 2026**. The department congratulates all the players from the ECE Department - **Dr. Devendra Singh Gurjar, Dr. Wasim Arif, Dr. Dipjyoti Das, Dr. Koushik Guha, Dr. Harishore Singh Tourangbam, Dr. M.V. Swati, and Dr. Puspa Pukhrambam** for their outstanding performance and teamwork that brought home the trophies.

DEPARTMENT OF MANAGEMENT STUDIES

- **Ms. Mrigakshi Borthakur**, Doctoral Scholar from the **Department of Management Studies**, received a **National Scholarship Programme** from **Slovakia** for a period of 4 months (April to July 2026).
- **Management Society – Games week: Sportiva 2026**, the annual sports week organised by the Management Society, was successfully conducted with great enthusiasm and participation from the students of the **Department of Management Studies**, NIT Silchar. The event served as an important platform for students to step beyond academic routines and engage in physical activities that foster teamwork, sportsmanship, and leadership. **Prof. Upendra Kumar, Dean of Student Welfare**, extended his constant support to the event. **Dr. Ashim Kumar Das** provided valuable guidance and motivation while **Dr. Shubham Senapati**, FIC (Management Society), coordinated the entire event with students from the department.

SPARC

DEPARTMENT OF MECHANICAL ENGINEERING

Five-Day Workshop on 'Vibration of Metamaterials and Smart Materials' was held from 18 to 22 February 2026 under the prestigious **SPARC (Scheme for Promotion of Academic and Research Collaboration)** of the **Ministry of Education, Government of India**. It was inaugurated by Chief Guest, **Prof Amitabha Ghosh**, Ex-Director - IIT Kharagpur and Emeritus Professor, IIT Kanpur. The five-day workshop brought together eminent researchers, academicians, and young scholars to deliberate on cutting-edge advances in dynamic behavior of metamaterials, wave propagation and bandgap engineering, smart materials and adaptive structures, vibration control and energy harvesting, and related emerging applications.



PATENTS

DEPARTMENT OF ELECTRICAL ENGINEERING

- A patent titled, '**A Sustainable, Hybrid Energy Harvesting System for an Electric Vehicle (EV) Charging Station**', has been published to **Dr. Mallikarjuna Balimidi**. It was patented in India. Patent Publication No.: **202631001368**.
- A patent titled, '**Energy Harvesting from Water Resources Using a Bamboo-Based Composite Hydro Turbine**', has been published to **Dr. Mallikarjuna Balimidi**. It was patented in India. Patent Publication No.: **202531114691**.
- A patent titled, '**A Real-Time Screening System and Method for Identifying Autism Spectrum Disorder Risk from Human Speech**', has been published to **Dr. Mallikarjuna Balimidi**. It was patented in India. Patent Publication No.: **202531130988**.
- A patent titled, '**System and Method for FDIA Detection in Microgrids Using Blockchain Technology**', has been granted to **Dr. Nabanita Adhikary**. It was patented in India. Patent No.: **577373**.
- A patent titled, '**A System and Method for Performing Two-Stage Flexible Weakly-Meshed Power Flow for Unbalanced Distribution Systems**', has been granted to **Dr. Swapna Mansani, Debasis Kumar Patel, and Rahul Gautam**. It was patented in India. Patent No.: **574101**.
- A patent titled, '**Drone-Based Smart Agricultural Health Monitoring System**', has been granted to **Dr. Biswarup Ganguly**. It was patented in India. Patent No.: **467509-001**.

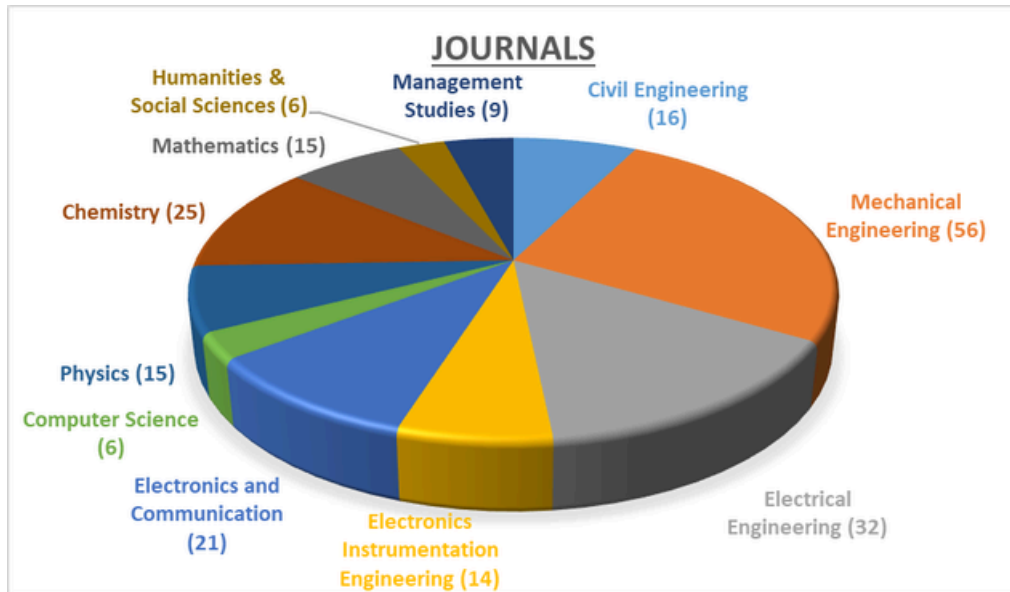
DEPARTMENT OF MECHANICAL ENGINEERING

- A patent titled, '**A Method for Manufacturing Eco-Friendly Fused Deposition Modelling Filament from Printed Circuit Waste**', has been granted to **Dr. Ashish B. Deoghare**. It was patented in India. Patent No.: **202631008076**.
- A patent titled, '**A Process for Preparation of Coconut Shell Derived Reduced Graphene Oxide Incorporated HAP-PMMA Composite Bone Scaffolds**', has been granted to **Dr. Ashish B. Deoghare**. It was patented in India. Patent No.: **202631008077**.

DEPARTMENT OF CIVIL ENGINEERING

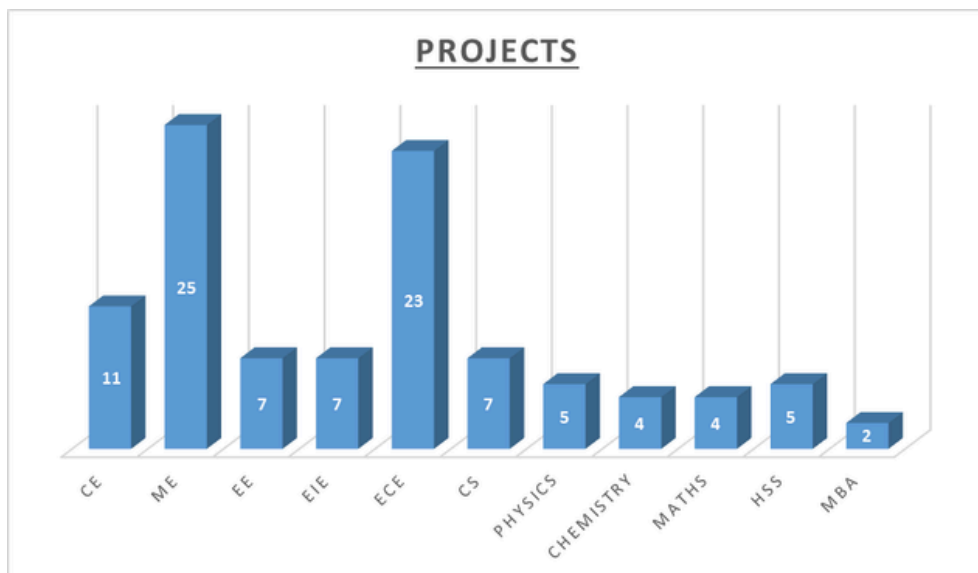
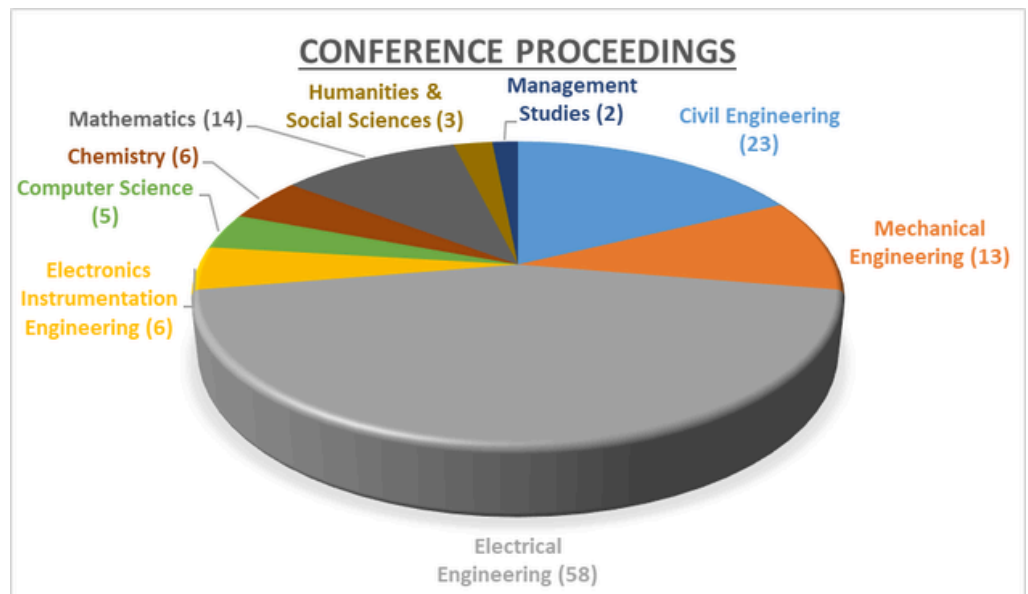
- A patent titled, '**A Portable Manually Operated Static Compaction Device for Preparing and Extracting Soil Samples**', has been granted to **Dr. Debjit Bhowmik, Gautam, and Ankita Majumdar**. It was patented in India. Patent No.: **570800**.

PUBLICATIONS & PROJECTS



In the last six months, faculty members and scholars of NIT Silchar have published around 215 research articles in journals of repute indexed in international databases like SCI, Scopus, E-SCI, etc.

Along with journal papers, our esteemed faculty members and scholars have around 130 conference proceedings to their credit in the last six months.



At present, we have around 100 international and national ongoing projects at NIT Silchar. These projects are funded by associations such as CSIR, DST, SERB, BRO, ICSSR, ANRF, among others.

FACULTY ACHIEVEMENTS

- **Prof. Md. Ahmaruzzaman (Department of Chemistry)** has been appointed as a Regional Editor of the 'International Journal of Environmental Analytical Chemistry' published by Taylor & Francis (SCI Journal).
- **Dr. Santan Kumar (Department of Mathematics)** is serving as an Editorial Board Member of Scientific Reports (Nature Portfolio). He was also awarded Springer Nature's trusted Reviewer.
- **Dr. Praveen Kumar Gupta (Department of Mathematics)** delivered a guest lecture titled 'Differential Equations and Transforms for Driving Real-Time Intelligence in Modern Systems' at VIT, Chennai, Tamil Nadu, on 11 November 2025. He also contributed selected chapters to Erwin Kreyszig, Advanced Engineering Mathematics, 11th edition (An Indian Adaptation), Wiley, Noida, India, 2025. ISBN: 978-93-7332-849-2. He serves as an editor of Computational Mathematics in Engineering: Proceedings of ICCMA 2025, De Gruyter, Berlin, 2026. ISBN: 978-31-1221-317-9.
- **Dr. Dipanjan Mukherjee (Department of Civil Engineering)**, along with **Mr. Harsh Jha**, secured the 'Best Paper Award' for their work titled, 'Assessing Glacier Health in the Bhutan–China Border Region Using Remote Sensing and Climate Analysis' at WETWAR-2025 International Conference on Wetlands and Water Resources for Sustainable Development held in December 2025.
- **Dr. Ashish B. Deoghare (Department of Mechanical Engineering)** delivered a lecture in the one-week online faculty development programme on the topic 'Sustainable Innovation in New Ventures', organised by the Department of Mechanical Engineering and the Institute Innovation Council (IIC), Assam Engineering College, Jalukbari, Guwahati, from 27 October 2025 to 1 November 2025.
- **Dr. Agnimitra Biswas (Department of Mechanical Engineering)** delivered an invited lecture in a technology seminar on energy audit & optimisation strategies, organised by HQ Chief Engineer Shillong Zone, Military Engineer Services during 16-17 January 2026.
- **Dr. Gautam Choubey (Department of Mechanical Engineering)** delivered invited talks on topics such as 'Scramjet Combustion for Hypersonic Applications: Challenges, Simulations, and Design Strategies', 'From Challenges to Solutions: A Computational Journey in Scramjet Propulsion', and 'Computational Fluid Dynamics for Turbulent Reactive Flows' at institutes like Sapienza University of Rome, Italy, IIT Roorkee, and NIT Uttarakhand. He also contributed as a Track Chair at the 28th National and 6th International ISHMT-ASTFE Heat And Mass Transfer Conference (IHMTTC-2025) from 9 to 12 December 2025 at the Indian Institute of Technology (IIT) Jodhpur, India.
- **Dr. Sushant Negi (Department of Mechanical Engineering)** delivered an invited lecture in a one-week Faculty Development Programme (FDP) titled 'Additive Manufacturing: Transformative Applications and Technological Frontiers' from 9 to 14 February 2026, sponsored by the National Centre for Additive Manufacturing (NCAM) in the Department of Mechanical Engineering, Assam Don Bosco University, Guwahati.
- **Dr. Somnath Santra (Department of Mechanical Engineering)** served as a session chair at the International Conference on Micro Nano Fluidics (ICOM 2025) held at the Indian Institute of Technology Guwahati.

- **Dr. Prosun Mandal (Department of Mechanical Engineering)** delivered an invited lecture in a one-week Faculty Development Programme (FDP) titled 'Smart Manufacturing in Industries' from 10 to 14 November 2025, sponsored by the Department of Mechanical Engineering, Dr B. C. Roy Engineering College (An Autonomous Institute), Durgapur.
- **Dr. M. V. Swati (Department of E&IE)** received the prestigious award of 'VEDAS Mid-Career Award-2025' in December 2025 by the Vacuum Electronic Devices & Applications Society (VEDAS) for her outstanding contribution to the research related to vacuum electron devices and their application.
- **Prof. Arup Kumar Goswami (Department of Electrical Engineering)** has been appointed as an Associate Editor (AE) for the IEEE Transactions on Industry Applications, a prestigious Q1 journal with a 5-year Impact Factor of 4.7 as reported by Web of Science.
- **Dr. Balimidi Mallikarjuna (Department of Electrical Engineering)** has edited a book titled, 'Capacitor Based Power Converters Design and Analysis', accepted by River Publishers. He has also received a certificate for completion of participating in Vigilance Awareness Quiz 2025, organised by the National Service Scheme wing at Jain (Deemed-to-be University), Bengaluru and another certificate of completion for participating in Cyber Security Awareness Quiz 2025 organised by the National Service Scheme wing at Jain (Deemed-to-be University), Bengaluru.
- **Dr. Rajeeb Dey (Department of Electrical Engineering)** has undertaken a programme of joint PhD between India-France (NITS Silchar-Université de Reims Champagne-Ardenne).
- **Dr. Partha Kayal (Department of Electrical Engineering)** has chaired a session at IEEE STPEC NIT Goa in December 2025.
- **Dr. Biswajit Sahoo (Department of Electrical Engineering)** chaired a special session proposal titled 'SS-06: Intelligent Protection and Control Strategies for Renewable Dominated Microgridsat' Second IEEE NE-IECCE 2026 (NIT Meghalaya).
- **Dr. Vivekanandan S. (Department of Electrical Engineering)** chaired a session at IEEE STPEC NIT Goa in December 2025.
- **Dr. Debayan Sarkar (Department of Electrical Engineering)** chaired a special session proposal titled 'SS-06: Intelligent Protection and Control Strategies for Renewable Dominated Microgrids' at Second IEEE NE-IECCE 2026 (NIT Meghalaya) and chaired another session at IEEE STPEC NIT Goa in December 2025.
- **Dr. Sreenu Sreekumar (Department of Electrical Engineering)** delivered expert lectures on topics like 'Balancing markets and imbalance forecasting: A pathway towards net zero grids', 'Importance of forecasting in mitigating Power Imbalance', 'Balancing in Modern Power Systems' in institutes such as SKIT Jaipur, Dream Institute of Technology, West Bengal and MITS Kottayam.
- **Dr. Dibya Nandan Mishra (Department of Management Studies)** got an extension of collaboration with INTI International University, Malaysia, as a Research Associate for more than three years (December 2025 – December 2028).
- **Dr. Rama Koteswara Rao Kondasani (Department of Management Studies)** received a National Scholarship Programme from Slovakia for a period of 4 months (April 2026 to July 2026).
- **Dr. Shashi Kumar GK (Department of Humanities & Social Sciences)** has been awarded the Charles Wallace Fellowship to conduct a month-long research in the UK.
- **Dr. Sumallya Mukhopadhyay (Department of Humanities & Social Sciences)** has been elected as the Vice President (2026-2028) of the Oral History Association of India.

NEWLY JOINED FACULTY MEMBERS



DR. DEBTANAY DAS
MECHANICAL ENGINEERING
PhD: IIT Guwahati



DR. ARUN RAJPUT
MECHANICAL ENGINEERING
PhD: IIT Kanpur



DR. SUSHANTA KUMAR SAHOO
MECHANICAL ENGINEERING
PhD: IIT Madras



DR. SHUBHAM AGRAWAL
MECHANICAL ENGINEERING
PhD: IIT Kharagpur



DR. ABHIJEET SHETHI
MECHANICAL ENGINEERING
PhD: IIT Kharagpur



DR. ANKUSH KUMAR
CIVIL ENGINEERING
PhD: IIT Guwahati



DR. PURBAYAN GHOSH MONDAL
CIVIL ENGINEERING
PhD: IIT Kharagpur



DR. BARUN KANOO
CIVIL ENGINEERING
PhD: IIT Bombay



DR. PARTHA DAS
CIVIL ENGINEERING
PhD: IIT Guwahati



DR. MEGAVATH DIWAKAR NAIK
ELECTRICAL ENGINEERING
PhD: NITK Surathkal



DR. SUNIL KUMAR MISHRA
ELECTRICAL ENGINEERING
PhD: MNNIT Allahabad



DR. DHRUBA JYOTI BORA
ELECTRONICS AND INSTRUMENTATION
PhD: NIT Silchar



DR. SHUPRAJHAA T.
ELECTRONICS AND INSTRUMENTATION
PhD: NIT Tiruchirappalli



DR. DEBASISH NATH
ELECTRONICS AND INSTRUMENTATION
PhD: IIT Delhi



DR. PARAMITA SARKAR
ELECTRONICS AND COMMUNICATION
PhD: NIT Silchar



DR. PARTHA SAHA
ELECTRONICS AND COMMUNICATION
PhD: IIT (ISM) Dhanbad



DR. DEBJANI GOSWAMI
ELECTRONICS AND COMMUNICATION
PhD: IIT Kharagpur



DR. TOURANGBAM HARISHORE SINGH
ELECTRONICS AND COMMUNICATION
PhD: NYMCT University, Hsinchu, Taiwan



DR. NILANJAN ROY
CHEMISTRY
PhD: IIT Kharagpur



DR. MOIRANGTHEM BIKEN SINGH
COMPUTER SCIENCE AND ENGINEERING
PhD: IIT (BHU) Varanasi



DR. SHUBHAM SENAPATI
MANAGEMENT STUDIES
PhD: NIT Rourkela



DR. AAYUSHI LYNGWA
HUMANITIES AND SOCIAL SCIENCES
PhD: IIT Kharagpur



DR. NEHA KUMARI
HUMANITIES AND SOCIAL SCIENCES
PhD: IIT Bhubaneswar

STUDENT ACHIEVEMENTS

INTER NIT SWIMMING CHAMPIONSHIP 2025

At the All India Inter NIT 2025 held at NIT Rourkela from 24 to 26 October 2025, the NIT Silchar Swimming Team won the '**Best Swimming Team**' title for the second consecutive year, securing a remarkable **7 Gold** and **13 Silver medals**. **Bhuprati Buragohain** was proudly awarded '**Best Swimmer of the Tournament**.' This monumental victory was driven by stellar medal-winning performances from **Bhuprati Buragohain, Abhishek Baruah, Meeran Kakati, Anshuman Saikia,** and **Arpita Sahu**.



The institute celebrates these champions and extends its heartfelt gratitude to the graduating fourth-year seniors for building such an inspiring legacy of sporting excellence.

ENTRE MUN 6.0 | IIT BOMBAY



A six-member delegation from NITSMUN represented NIT Silchar at ENTRE MUN 6.0 during the E-Summit at IIT Bombay from 10 to 12 December 2025. The team demonstrated exceptional diplomacy on a national stage, with **Prachi** (High Commendation), **Devanuj Rijal** (Verbal Mention), and **Krish Jain** (Verbal Mention) securing prestigious recognition for the institute.

6TH CACHAR DISTRICT KARATE CHAMPIONSHIP

At the 6th Cachar District Karate Championship, NIT Silchar Karate Dojo secured a massive **28 medals (8 Gold, 10 Silver, 10 Bronze medals)**. All 18 participating players qualified for the upcoming South Zonal Championship. This stellar performance was led by top medalists **Jiyan Kalita (4 medals, including 3 Gold)**, **L Sironjib Singha (4 medals)**, and **Shaswat Shivam Nath (4 medals)**.



NCC NER IDEA & INNOVATION COMPETITION 2025



NCC NIT Silchar cadets represented the **Silchar Group** at the **NCC NER Idea & Innovation Competition** from 3 to 6 October 2025. Their autonomous drone for border surveillance and medical delivery secured the **Runner-Up** position among 30 projects and received special appreciation for its defence relevance. **The team will now represent the NER Directorate at Vijayawada.**

HACK FOR GREEN BHARAT 2026

Team NIT Silchar (AlgoByte), comprising Dishank Choudhury (CSE), Nakibul Islam (ECE), Tarun (ECE), and Kunaljit Kashyap (EE), emerged victorious at the **Hack for Green Bharat 2026 Grand Finale**. The prestigious event concluded on 13 March 2026 at the **Microsoft Office in Gurgaon**. The institute commends the team for their exceptional innovation and technical excellence on a national stage.



ALL INDIA INTER NIT SPORTS MEET



The NIT Silchar men's badminton team, featuring Bishal Saikia, Param Nagar, Kunal Kalita, Alvir Hasnain Rehman, and Abhijit Das, proudly secured the **second position** at the **26th All India Inter NIT Sports Meet** hosted by NITK Surathkal. Showcasing exceptional skill and competitive spirit, the stellar squad delivered an outstanding performance, bringing immense sporting glory to the institute on a national stage.

CAMPUS ACTIVITIES

DEEPOTSAV 2025

In **Deepotsav 2025**, **1,11,111 earthen lamps** were lit to honour the **armed forces** for '**Operation Sindoor**' and celebrate the life of the **late Zubeen Garg**. The entire event stood as a symbol of unity, tradition, and collective hope.



KATI BIHU 2025

On 18 October 2025, **NITS Eco Club** and the **Posua Society** jointly hosted a serene **Kati Bihu** celebration at **Gymkhana Park**. To honour Assam's rich agricultural heritage and express profound gratitude to nature, the campus community gathered to light traditional earthen lamps beneath the holy Tulsi plant. The vibrant evening beautifully fostered unity, hope, and cultural pride across the institute with students, faculty members, and administrative staffs joining the celebration.



VOLUNTARY BLOOD DONATION CAMP



To commemorate the late artist **Zubeen Garg**, **NIT Silchar** collaborated with the **District Health Centre (S.M. Dev Civil Hospital)** to organise a **Voluntary Blood Donation Camp** at the **Students' Activity Centre** on **26 October 2025**. The initiative reflected a deep sense of social commitment and humanitarian concern, bringing together students, faculty, and staff in a collective effort to contribute to a lifesaving cause. Participants responded enthusiastically, demonstrating compassion and civic responsibility through their active involvement. The event not only paid tribute to a celebrated cultural figure but also reinforced the institute's dedication to community welfare. Such initiatives highlight the strong sense of unity and shared purpose that defines NIT Silchar's institutional ethos.

UNITY WEEK 2025

To honour **Sardar Vallabhbhai Patel**, **NIT Silchar** celebrated a vibrant **Unity Week** from 31 October to 6 November 2025. Spearheaded by the **Gymkhana Union Body** under the **Students' Welfare Section**, the week showcased immense collaborative spirit across campus societies. **NCC and NSS units led the opening Unity Run and Parade**, while **Eco Club volunteers drove a campus-wide cleanliness initiative**. Intellectual and creative events thrived as **Illuminits** managed **literary competitions** and the **Quiz Club** hosted a national **history contest**. The vibrant **Inter-Hostel Wall Painting Competition** notably featured a moving tribute to the late artist **Zubeen Garg** by **BH-7**, before **Symphonits** brought the inspiring week to a close with a soulful patriotic singing competition.



REXIAN '25: 16TH ANNUAL ALUMNI MEET



On 22 and 23 November 2025, NIT Silchar proudly hosted **Rexian '25**, the **16th Annual Alumni Meet**, warmly welcoming back the **Batch of 2000** to commemorate their **Silver Jubilee**. The returning alumni relived their golden college days by exploring familiar corridors, revisiting their hostels, and engaging in fun-filled activities designed to rekindle lifelong friendships. The grand celebration culminated in a vibrant cultural evening at the Guest House Auditorium, highlighted by a spectacular live performance from "Just Another Band."

VIGILANCE AWARENESS WEEK 2025

NIT Silchar observed **Vigilance Awareness Week** from 21 to 24 November 2025, to promote integrity, transparency, and accountability. The event began with a collective **Integrity Pledge** at the **Administrative Block**. The campus held thought-provoking events, including an awareness quiz, an essay competition on youth's role in an honest society, and an impromptu speech competition by the **NSS unit**. These initiatives successfully engaged students, inspiring the campus community to champion ethical conduct and contribute to a corruption-free society.



NCC RAISING DAY 2025

NCC NIT Silchar celebrated its **Raising Day** on 23 November 2025, honouring the organisation's legacy through a blend of athletic excellence and selfless service. The festivities began with a dynamic Sports Week, featuring cadets competing in badminton, chess, volleyball, and relay races. **Winners were felicitated by officials from the 3 Assam Battalion**. A **Blood Donation Drive** was organised at SAC in collaboration with **Cachar Cancer Hospital and Research Centre**.

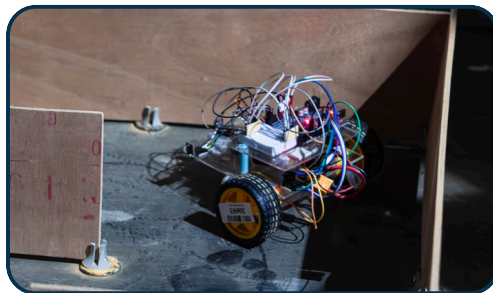
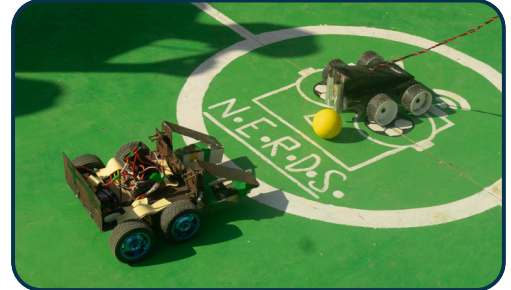


MAGH BIHU 2026

Embracing the joy of the harvest season, the **Posua Society** celebrated **Magh Bihu** on 14 January 2026 at the campus football ground. The festivities honoured Assam's rich agrarian heritage, bringing everyone together for a vibrant celebration of abundance and traditional feasting to mark the auspicious occasion of Bhogali Bihu.



TECNOESIS 2026 (Technical Fest of NITS)

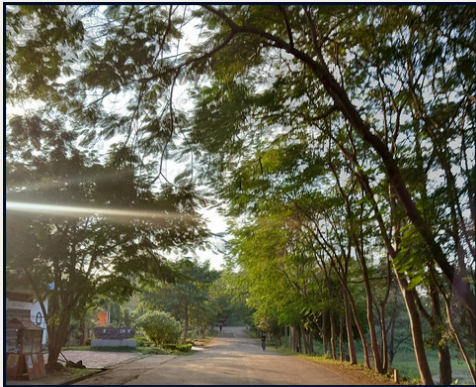


NIT Silchar successfully organised its annual technical fest **Tecnoesis 2026** from 15 to 18 January 2026. The four-day event served as a dynamic platform for technical innovation and entrepreneurial spirit, featuring events such as 'Robotron' by NERDS, 'Empresario' by E-Cell, and 'Circuitary Nexus' by INSEES. The festival balanced technical competitions with recreational activities and gaming tournaments. Interactive experiences featured the 'Conferenza' with Anubhav Dubey and a Comedy Night with Swati Sachdeva. The grand convergence of technology, gaming, and creativity concluded on 18 January with 'Spark Night,' featuring an electrifying flagship musical performance from acclaimed artist Raftaar.

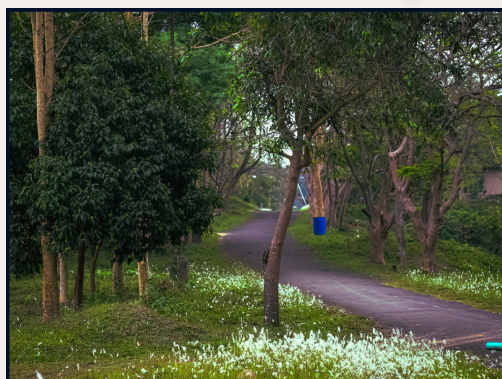
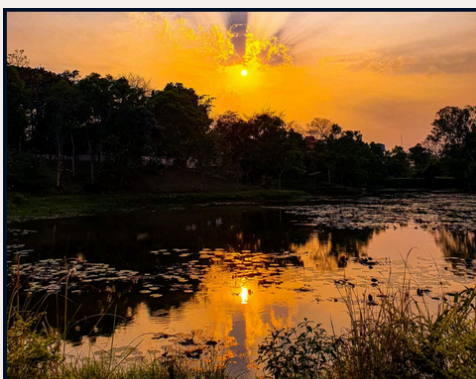
INCANDESCENCE 2026 (Cultural Fest of NITS)



NIT Silchar hosted its premier annual cultural festival, **Incandescence 2026**, from 13 to 16 February 2026 under the vibrant theme 'Tribal Tapestry'. Sponsored by Myntra Glamfest, the four-day celebration highlighted indigenous heritage and artistic expression. It also had a comedy night by Aaditya Kulshreshth, a Raag Mela by Sandip Gosh and Padma Shri Pandit Tejendra Narayan Majumdar, and vibrant musical sets by Taba Chake and Raman Negi. The cultural extravaganza culminated in a spectacular grand finale, anchored by an electrifying and soul-stirring performance from renowned Bollywood playback singer Javed Ali.



*The verdant scenic beauty adorning
the landscape of NIT Silchar*



Photos courtesy: Dr. Partha Pakray, Dr. Avijit Das & Dr. Sumallya

राष्ट्रीय प्रौद्योगिकी संस्थान सिलचर

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(An Institute of National Importance)



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