

# SPARKED

The Pulse of Electrical Engineering  
December | 2025



## Charge from Head

As we present the **December 2025** edition of our departmental newsletter, I extend my heartfelt greetings to all. This month reflects the true spirit of excellence through notable achievements in academics, research, placements, and community outreach by our students and faculty. December brings with it the joy of Christmas and the promise of a New Year. May this festive season inspire positivity, gratitude, and renewed enthusiasm as we step into the year ahead with fresh goals and greater aspirations. I appreciate the efforts of everyone who contributed to this edition and wish all our readers a Merry Christmas and a Happy, Prosperous New Year 2026.



Prof. Avijit Saha  
Head of the Department  
Electrical Engineering, FIEM

## Highlights for the month

- Research Paper publication by Sohom Banerjee, Final year EE Student
- Faculty Development Program by our Faculty
- Career Counselling and Fair by our Faculty & Staff

## Upcoming Surge

- Webinar by our Alumni: Dates will be announced soon
- Alumni Meet in Virtual Platform: Dates will be announced soon
- Industrial Visit: Dates will be announced soon

**Prof. Sanjoy Sarkar** attended a **Career Counselling Program at Sonakhali High School, Ghatal, West Midnapur, on 17<sup>th</sup> December 2025**, with the aim of guiding school students towards informed and meaningful career choices. During the session, he shared valuable insights on higher education opportunities, various career pathways, and emerging trends in technical and professional fields. Prof. Sarkar also emphasized the importance of skill development, self-assessment, and informed decision-making in shaping a successful career. The interactive session encouraged students to clarify their doubts and gain confidence about their future goals. The program was well appreciated by both students and teachers, reflecting the institute's strong commitment to community outreach, academic guidance, and holistic student development.



Prof. Sanjoy Sarkar

## Voltage to VICTORY



We are delighted to share that our final year students, **Anjan Kayal** and **Akash Chakraborty**, have been successfully placed at **Lumino Industries Ltd.**, a leading manufacturer of cables, conductors, and wires, and a reputed Engineering, Procurement, and Construction (EPC) major in the infrastructure sector. Lumino Industries Ltd. is actively involved in executing key projects in power distribution and transmission, railway electrification, reconductoring with HTLS conductors, solar power projects, and EHV substation development. Being selected by such a prestigious organization reflects the students' strong technical knowledge, practical skills, and readiness to contribute to large-scale infrastructure development. This achievement highlights the quality of education, industry-oriented training, and continuous mentoring provided by the institute. We congratulate Anjan Kayal and Akash Chakraborty on their success and wish them a rewarding and successful professional career ahead. Their accomplishment will surely inspire fellow students to pursue excellence and achieve their career goals.



Anjan Kayal



Akash Chakraborty

## Editorial Sparks

Faculty Advisor: Prof. Tamal Dutta  
Student Editor: Sohom Banerjee (4<sup>th</sup> Year)  
Creative Designer: Sudipta Jana (3<sup>rd</sup> Year)

Our third-year student **Alekshya Maity** actively participated in the cultural fest **UMANG**, hosted by Bhawanipur Education Society College on 15 December 2025. Alekshya represented our institution as a hand percussionist in the college band "Dhwani" during the event **Band Battles [Indipop]**. The band's energetic performance showcased musical creativity, rhythm, and teamwork, reflecting the vibrant cultural talent of our students. Alekshya's participation added distinction to the event and contributed to the proud representation of our college on an inter-collegiate platform.



Our third-year student **Subir Sarkar** showcased remarkable endurance and determination by participating in **East India's biggest sporting event** and **the world's only Gold Label 25K race**, the **Tata Steel World 25K Kolkata** on **21/12/2025**. Demonstrating exceptional fitness and perseverance, Subir successfully completed the race with a strong finish. His achievement reflects dedication to sports and a spirit of excellence, bringing pride to the institution. We congratulate Subir Sarkar on this commendable accomplishment and wish him continued success in his athletic pursuits.

## Power Highlights

Our Senior Technical Assistant, **Mr. Amitava Parua**, actively contributed to academic outreach and community engagement initiatives during December 2025, reflecting the institution's commitment to social responsibility and educational awareness. On 9<sup>th</sup> December 2025, Mr. Parua attended a Career Counselling Programme at Bajitpur Saradamoyee Balika Vidyalaya. During this programme, he interacted with school students and provided meaningful guidance on career planning, higher education opportunities, and the importance of technical education in today's competitive environment. His session helped students gain clarity about future academic pathways, skill development, and informed decision-making regarding their careers. Further extending his outreach efforts, Mr. Parua was also present at the Shantipur Milan Mela - 2025, held at Shantipur, Nadia, from 23<sup>rd</sup> to 24<sup>th</sup> December 2025. This prominent community event served as a platform for interaction with a wider audience, where educational awareness, technical knowledge, and career-oriented discussions were encouraged. His participation emphasized the role of academic professionals in bridging the gap between institutions and society. Through these engagements, Mr. Amitava Parua has significantly contributed to strengthening the institution's presence in community-oriented activities while promoting education, career awareness, and social development. Such initiatives enhance the institution's outreach efforts and inspire learners and community members alike.



Prof. Tamal Dutta

Our faculty **Prof. Tamal Dutta** successfully completed a **six-day Faculty Development Programme (FDP)** on **"Emerging Trends and Challenges in Renewable Energy"**, organized by the **Department of Electrical Engineering, Dr. B. C. Roy Engineering College, Durgapur**.

The programme provided in-depth insights into recent advancements, technologies, and challenges in the field of renewable energy, including sustainable power generation, energy management, and future research directions. Participation in this FDP enhanced Prof. Dutta's academic and technical expertise, enabling the integration of contemporary renewable energy concepts into teaching and research activities.

This achievement reflects the institution's continuous emphasis on faculty upskilling, academic excellence, and commitment to addressing global energy and sustainability challenges.



## Student Surge



Our final year student **Sohom Banerjee** has achieved a noteworthy academic accomplishment by successfully publishing and presenting two research papers at a reputed international conference, demonstrating strong research competence and innovation-oriented learning.

The papers were presented at the **2025 IEEE 4<sup>th</sup> International Conference on Smart Technologies for Power, Energy and Control (STPEC 2025)**, organized by the Department of Electrical and Electronics Engineering, National Institute of Technology (NIT) Goa, and held from 10<sup>th</sup> to 13<sup>th</sup> December 2025. This prestigious IEEE conference provided an international platform for researchers, academicians, and industry professionals to exchange ideas in the domains of power systems, renewable energy, smart technologies, and advanced control techniques.

The first research paper, titled **"Quantum Inspired Weighted PSO Guided Incentive Scheme for EV Charging Stations"**, focuses on the application of advanced optimization algorithms for efficient incentive mechanisms in electric vehicle charging infrastructure. The work contributes to sustainable transportation and smart energy management solutions.



Sohom Banerjee



The second paper, **"Quantum Grey Wolf Optimized Hybrid Deep Net Structure for Day-Ahead Wind Speed Forecasting"**, explores intelligent forecasting models combining optimization techniques with deep learning for accurate wind speed prediction, an essential aspect of renewable energy integration and grid reliability.

These international publications reflect Sohom Banerjee's dedication to research, analytical thinking, and emerging technologies in power and energy systems. His achievement brings pride to the institution and highlights the growing research culture among students, encouraging innovation, sustainability, and academic excellence.