



St. Thomas' College of Engineering & Technology
Kidderpore, Kolkata, West Bengal

NEWSLETTER



SPARK

Department Of Electrical Engineering

-: Apr. to June: -

Volume: EE-X, Issue-IV: July 24, 2025

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NEWSLETTER

Vision

Department:

EE

(NBA Accredited)

To create a strong research-based teaching and learning environment that will cater to the needs of modern Electrical Engineering.

Editor:

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Mission

- To impart knowledge and technology to budding professionals and incite their quest for further enhancement of their learning.
- To produce recognized industry-ready professionals in Electrical Engineering, through educational program incorporating practice and project-based teaching-learning processes.
- To enhance knowledge in Electrical Engineering, through research for sustainable development of the society and the nation as a whole.
- To promote social, environmental and technological responsiveness related to electrical energy through dissemination of knowledge.

Program Educational Objectives (PEO)

PEO1- Have skills, in-depth knowledge and proficiency in the core areas of electrical and other related interdisciplinary engineering domains.

PEO2- Become successful practitioners in electrical industries and/or to be ready for entrepreneurship keeping in view of the national and global requirements.

PEO3- Have ethical values, social commitment and leadership qualities towards application areas of electrical energy.

Departmental Milestones

❖ *Technical Report Writing*

Electrical Engineering Students from First to Fourth Year participated in **Technical Report Writing Competition** which was held during **14th May, 2025** jointly organized by IEEE Student Branch STCET, IEEE Student Chapter (CIS, IES), IEEE WIE, Publication Cell in the campus of St. Thomas' College of Engineering & Technology. The Electrical Engineering students from First to Fourth Year had submitted technical reports on the topics one week earlier, which was circulated by the coordinators. The submitted report were then reviewed thoroughly by selected jury members of the respective departments. After review the student winners from the respective departments and the winners from the college level were declared on 14th May, 2025.





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List of Electrical Engineering Students who were declared winners in Technical Report Writing Competition for the celebration of National Technology Day

Name	Ranking
Pratipol Mondal	First in College Level & First in EE Department
Debaditya Palodhi	Second in EE Department
Soumi Mukherjee	Third in EE Department



Institute level Winner from EE Dept. & First place in EE Dept. for Technical Report Writing Competition



Second place in EE Dept. for Technical Report Writing Competition

❖ Innovative Hardware Project Competition

- Selected Project Groups from Electrical Engineering Department participated in **Innovative Hardware Project Competition** which was held during **18th June, 2025** jointly organized by Entrepreneurship Development Cell & Institution's Innovation Council, in the campus of St. Thomas' College of Engineering & Technology.



Flyer for Innovative Hardware Project Competition



First Runner Up of Innovative Hardware Project Competition



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- Sreetama Biswas, Arijit Misra, Dhiraj Saha & Debayan Das were declared **First Runners Up** for successfully presenting their prototype in front of the jury members on Generation of Electricity from Waste.

❖ *Publication*

Prof. (Dr.) Sujit K. Biswas & Dr. Koustuv Sarkar has published the following journals:

- S. Chakraborty, A. Chakrabarti, D. Maiti, S. Mukhopadhyay and **S. K. Biswas**, “A rotor-tied DFIG scheme with one phase open circuit fault-tolerant capability”, IEEE Transactions on Industrial Electronics, vol. IE-72, no. 5, pp 4343 – 4352, May 2025.
- U. Das, S. Debnath, S. Gupta, P. K. Biswas, **S. K. Biswas**, T. S. Babu, “Design, simulation and testing of U-type actuator-based single-coil active-magnetic-bearing”, Mechanics Based Design of Structures and Machines, vol. 53, no. 5, pp 3484–3500, May 2025.
- S. Chakraborty, D. Maiti, S. Mukhopadhyay, A. Chakrabarti, and **S. K. Biswas**, “Optimized design coordination of a single phase static VAR compensator for AC railway traction”, Electric Power Systems Research, vol. 243, June 2025.
- **K. Sarkar**, D. Maiti, A. Chakrabarti & **S.K. Biswas**, “A Dual-Switch Step-Up DC-DC Converter with Non-Isolated Floating Output and Improved Performance,” Arabian Journal for Science and Engineering, Published Online 10th June, 2025, <https://doi.org/10.1007/s13369-025-10364-x>.

• *Faculty Development/Training Activities/STTP*

- **Dr. Krishna Sarker, Dr. Indrayudh Bandyopadhyay, Dr. Sukanya Dasgupta, Mr. Arup Das, Dr. Diptarshi Bhowmick & Dr. Koustuv Sarkar** completed a Five – Day Faculty Development Programme on “Exploring AI Landscape in Multidisciplinary Contexts”, [Hybrid] at St. Thomas' College of Engineering & Technology on 23rd - 27th June 2025.

***“The true laboratory is the mind, where
behind illusions we uncover the laws of
truth”***

- Jagadish Chandra Bose