



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

NEWSLETTER



⚡ SPARK ⚡

Department of Electrical Engineering

-: Oct. to Dec.: -

Volume: EE-IX, Issue-II: Jan. 31, 2024

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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.

Editors:
Chirita Dasgupta
Sampurna Dey
Pausali Saha
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Faculty in-charge
Mrs. P. Ghosh,
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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

Distinguished Lecture



A distinguished lecture was delivered by ISRO Scientist **Shri Chiranjib Guha Majumder (Alumni of STCET) For Being a Part CHANDRAYAAN-3.0** on 18th October, 2023. He shared his experience on his **Successful Journey in Innovation/Research for being a part of**



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historical CHANDRAYAN-3.0. Students from EE Dept (1st Year to 4th Year) actively took part in lecture session and interacted with the distinguished speaker.

❖ *Publication*

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

- E. Das, A. Banerji and **S. K. Biswas**, "A Robust Microgrid using an Inverter with CCS-MPC Control and Resilient Operation", International Journal of Power Electronics and Drive Systems (IJPEDS), vol 14, no 4, pp. 2217-2229, Dec 2023
- S. Gupta, S. Mukhopadhyay, A. Banerji, P. Sanki and **S. K. Biswas**, "Adaptive Droop Control for Voltage and Frequency Regulation in Virtual Power Plant Scenario under Power System Contingencies", Jordan Journal of Electrical Engineering, vol. 9, no. 4, pp. 618-649, Dec 2023.
- J. Ali, A. Khan, G. Pandurangan, **P. Ponnusamy**, F. S. Almari & S. Bahaj, "A 7L and 11L High Step-Up SCMLI Topology With Reduced Component Voltage Stress", vol 11, IEEE Access, Nov. 2023.
- **K. Sarkar**, A.Chakrabarti, P.R Kasari, B. Das & S.K. Biswas, " Performance improved multi-level OEIM drive with voltage boost through unequal levels", vol. 59. iss. 5, Sept.-Oct. 2023. IEEE Transactions on Industry Applications, DOI: 10.1109/TIA.2023.3290574.

❖ *Patent*

Prof. (Dr.) Sujit K. Biswas has published the following patent:

Dec-2023, "Method to Decontaminate Solid Surface" Patent No. US2023/0390431 A1, A. Ghatak, S. Janani, Venkatraman, S. Datta, **S. K. Biswas**, K. S. Ramanujan, D. Kundu and S. Raju, United States, Granted.

❖ *Book/Book Chapters*

Dr. Krishna Sarker has published the Book:

Krishna Sarker, Jayanti Sarker (Bhattacharjee), "**Power Quality Improvement by FACTS Controller**", Scholar's Press; Indian Ocean Ltd and Omni Scriptum S.R.L. ISBN-13: 978-620-6-77054-1, EAN: 9786206770541, Publication Date: December 8, 2023, Pages: 177, <https://www.morebooks.shop/shop-ui/shop/product/9786206770541>.



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The sports event list is provided and the position is also provided:

Event	Participants/ Squad	Position
Table Tennis	TT Squad	Runner up
Girls Cricket (Part of the Squad)	Ishani Basak	Winner
	Sampurna Dey	
	Adrija Maity	
Girls Relay (200m) (Part of the Squad)	Ishani Basak	Third
	Pausali Saha	
	Sampurna Dey	
	Jyoti Kumari Yadav	
Long Jump	Sampurna Dey	Second
Throw The Ball	Chandrane Mondal	Winner
	Ishani Basak	Third
Boys Football	Boys Squad	Second

***“Genius is one percent inspiration and
ninety-nine percent perspiration.”***

- Thomas Edison