



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

## NEWSLETTER



Department:

**EE**

(NBA Accredited)

Editor:

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Volume: EE-VII, Issue-1: JAN 24, 2022

*Vision*

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

*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.

## Departmental Milestones:

### ❖ Publication

#### Journal Section:

Dr. Krishna Sarker published the following papers:

- “A Harmonic Optimization Approach Of 500 Kva Hog Converter” in Journal on Electronics Engineering; Nagercoil Vol. 10, Iss. 4, in July, 2021 (DOI:10.26634/jele.10.4.18050)
- “A Modified PV-wind-PEMFCS-based hybrid UPQC System with Combined DVR/STATCOM Operation by Harmonic Compensation”, in International Journal of Modelling and Simulation, Taylor & Francis, Volume 41, Issue 4, Pages 243-255, in July, 22 (DOI 10.1080/02286203.2020.1727134)
- “Hybrid Genetic Algorithm-Gravitational Search Algorithm to Optimize Multi-Scale Load Dispatch” in International Journal of Applied Metaheuristic Computing, Volume-12, Issue 3, (DOI: 10.4018/IJAMC.2021070102)

Dr. P Prem published the following paper:

- “A New Generalized Cross Connected Switched Capacitor Multilevel Inverter Topology With High Output Voltage Gain For Single Phase Solar PV Unit in Journal of Engineering Research”, Vol.9, Issue 4A in December, 21

#### Conference Section:

Dr. Krishna Sarker published the following paper:

- “A Flexible Auxiliary Damping Loop for the Islanded Microgrid” in IEEE-2021 International Conference in Advances in Power, Signal, and Information Technology (APSIT), Bhubaneswar, India, October, 21



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## ❖ Faculty Development Programme

- Mr. Diptarshi Bhowmick participated in Faculty Development Programme on "Renewable Energies and Plug-in Vehicles Integration in Microgrid (REPVIM-2021)" at NIT Rourkela from November 26<sup>th</sup> to 30<sup>th</sup>, 2021.
- Mr. Koustuv Sarkar & Mrs Sukanya Dasgupta took part in Faculty Development Programme on "Power Electronic Systems and its Real Time Control Implementation in DSP" at Fr. C.Rodrigues Institute of Technology NIT Rourkela from November 8<sup>th</sup> to 12<sup>th</sup>, 2021
- Dr. Indrayudh Bandyopadhyay & Mr Arka Sengupta participated in Faculty Development Programme on " Control System analysis and Design with MATLAB " at NITTTR, Kolkata from August 09<sup>th</sup> to 13<sup>th</sup> ,2021
- Mrs. Poulami Ghosh and Mrs. Ananya Bose completed successfully 5-day online STTP on "Problem Solving with PYTHON" at NITTTR, Kolkata from August 09<sup>th</sup> to 13<sup>th</sup> , 2021.

## ❖ Patent

Dr. Krishna Sarker filed a patent on "Active Control Applied to Wind Power for Attenuating Torque" in Indian PATENT (U/S 11A, Govt. of India) in December,21

Dr. P.Prem also filed a Design Registration titled Smart Coin Collecting Carom in October,21

## ❖ Placement

Total 54 students of Department of Electrical Engineering have been recruited in different companies like CTS, Infosys, NRIFT, WIPRO, TCS during July-December,21.

## ❖ Seminar/Webinar

- Students of Electrical Engineering participated in "Webinar on Nanoscience & Nanotechnology" on 21<sup>st</sup> December, 2021 organized by St. Thomas' College of Engineering & Technology, Kol-23. The speaker was Prof. (Dr.) Kalyan Kumar Chattopadhyay, Professor, Department of PHYSICS, Thin Film and Nanoscience Laboratory, School of Materials Science and Nanotechnology , Jadavpur University.
- Students of Electrical Engineering of different years participated in a Invited Lecture on "My Story – Motivational Session by Successful Entrepreneur/Start-up Founder" by Mr. Dev Roy Owner of Royrelestate and RoarTech, Visionary IT Leader, Adviser US Federal Government Client, Amazon Web Services Solution Architect and Developer on 7<sup>th</sup> December, 2021 .