



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

NEWSLETTER

## SPARK

DEPARTMENT

VOLUME: III, EDITION: IV, JULY 27, 2018

EE

### VISION

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

### MISSION

**Editors:**

1. Prof. (Dr.)  
S.K. Biswas,  
Professor, EE

2. Prof. (Dr.) P.  
Purkait,  
Professor, EE

3. Prof. A. Bose,  
Assistant  
Professor, EE

4. Prof. A. Das,  
Assistant  
Professor, EE

5. Neelakshi  
Ganguly,  
student

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- 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.

### RECENT TECHNOLOGY TREND

**Smart Grids-** The nature of electricity usage is changing dramatically, especially on a consumer level. In the past, consumers relied on their local power company to provide electricity for a few dozen devices in static locations. Now, consumers have option to generate their own power by renewable energy sources (E.g. Solar PV). Surplus of which they can sell. Now loads (E.g. electric car) may not be at their fixed position.

**Prof. (Dr.) B.B. Sen**  
**Head of the Department,**  
**Department of Electrical Engineering,**  
**St. Thomas' College of Engineering and Technology**

### DEPARTMENTAL MILESTONES:

#### PUBLICATION DETAILS

1. P.Ghosh, A.Kalwar "Application of Particle Swarm Optimization –TVAC Algorithm in Power Flow Studies" in Advances in Communication, Devices and Networking pp 933-941, Lecture Notes in Electrical Engineering book series (LNEE, volume 462), 24 May 2018.
2. "A Wide Range TCR with Low Current THD by Optimized Combination of Coupled Reactors and Thyristor Switching & Control", S. Mukhopadhyay, D. Maiti, A. Banerji, S. K. Biswas and N. K. Deb, IEEE Transactions on Industrial Electronics, vol.IE-65, no.5, pp 3657 – 3665, May 2018.



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3. "Seventeen-Level Inverter with Low Component Count for Open-End IM Drives", A. Kshirsagar, R. Sudharshan Kaarthik, A. Rahul, K. Gopakumar, L. Umanand, S. K. Biswas and C. Cecati, IET Journals, Power Electronics, vol.11, no.5, pp 922-929, May 2018.

4. I. Bandyopadhyay, P. Purkait, and C.Koley, "A SVM based Classifier for Identification of Spurious Resistance Fault involving IGBTs in VSI based Induction Motor Drive," In IEEE Proc. ASPCON2018, JU, 2018.

## FACULTY DEVELOPMENT PROGRAMME:

1. Mrs. Ananya Bose has attended two week Short Term Training Programme on 'Control system analysis and design using MATLAB' held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata during from 4.6.2018 to 15.6.2018.

2. Mrs. Sukanya Dasgupta has attended two week Short Term Training Programme on 'Control system analysis and design using MATLAB' held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata during from 4.6.2018 to 15.6.2018.

3. Mrs. Poulami Ghosh has attended two week Short Term Training Programme on 'Hardware simulation of electrical & electronics circuits' held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata during from 18.6.2018 to 29.6.2018.

4. Mr. Indrayudh Bandyopadhyay has attended two week Short Term Training Programme on 'Effective Teaching' held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata during from 18.6.2018 to 29.6.2018.

5. Mr. Krishna Roy has attended two week Short Term Training Programme on 'Effective Teaching' held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata during from 18.6.2018 to 29.6.2018.

6. Mr. Prithwiraj Purkait has attended two week Short Term Training Programme on 'Effective Teaching' held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata during from 18.6.2018 to 29.6.2018.

## SUMMER WORKSHOP :

It was held from 11th to 13th June, 2018 on "Industrial Fabrication for Energy Efficient Lighting"(An Entrepreneurship Development Programme). Second year students of EE Dept. have participated the workshop.

Resource persons are :

1. Ms. Mahuya Sarkar, Asst. Manager(R&D), Century LED Ltd.
2. Mr. P. S. Datta, Entrepreneur, Ex-District Engineer, Kirloskar Cummins

## Position of Participants of the Competition on the topic:

1<sup>st</sup> : SAGAR CHAKRABORTY

2<sup>nd</sup> : APURBA RANA

3<sup>rd</sup> : ASHISH ANAND



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Some glimpses of the workshop:

