



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

## DARPAN

*(THE IMAGE OF ACHIEVEMENTS)*

NEWSLETTER

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DEPARTMENT

ECE

### Vision of ECE Department:

To build a strong teaching and research environment to cater to the manpower needs in Industrial and Academic domains of the rapidly growing Electronics and Communication Engineering.

### Mission of ECE Department:

❖ To produce certified industry-ready professional in Electronics and Communication Engineering, through innovative educational programs incorporating laboratory practices and project based teaching-learning processes, in a modern environment.

❖ To create knowledge base of advanced technologies through research in the area of Electronics and Communication, for competitive and sustainable development of the country.

❖ To groom the department as a learning centre to inculcate advancement of technology in Electronics and Communication Engineering with social values and environmental awareness.

### Editors:

1 Sudipta Dutta  
Assistant Professor,

2. Prashnatita Pal  
Assistant Professor,

3. Jeet Sarkar 4th  
year

## RECENT TECHNOLOGY TREND

Internet of Things (IoT) is an ecosystem of connected physical objects that are accessible through the internet. IoT can connect devices embedded in various systems to the internet. When devices/objects can represent themselves digitally, they can be controlled from anywhere. The connectivity helps us to capture more data from various places, ensuring different ways of increasing efficiency and improving safety and security. With the help of IoT, organizations can reduce overall cost by improved process efficiency, asset utilization and productivity. With improved tracking of devices/objects using sensors and connectivity, they can benefit from real-time insights and analytics, which would help them in making smarter decisions. Smart Decisions can be taken from real world by using sensors and connectivity.

### For Further Information

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## Departmental Milestones

### Best Performance in MAKAUT:

- Roshan Kumar Jha, 4th Year, DGPA: 9.46
- Debomita Chakraborty, 3rd Year, YGPA: 9.43
- Swapnanil Gupta, 2nd Year, YGPA: 9.55
- Sohan Banerjee, 1st Year, YGPA: 9.21

### Ph.D Awarded:

**Mr. Dipankar Kundu**, received his Ph.D degree in November 2017 from Calcutta University. His research field is Nanoscience and Nanotechnology.

### Faculty Achievement

Ms. Kakali Das has published a chapter on Analytical model of MEMS-based piezoresistive pressure sensor using  $\text{Si}_3\text{N}_4$  diaphragm, CRC Press 2017, Print ISBN: 978-1-138-03157-9, eBook.

### Industrial Training:

Industrial Trainings for final year students of the Department were arranged in different industries, like South Eastern Railway, NIIT, GE motors etc.

### Events Organized:

#### Texas Instruments Drishti Online Contest

**Date: 22<sup>nd</sup> August, 2017, Venue: Dept. of ECE, STCET**

Abstract: The contest was conducted online by Texas Instruments in our college. Faculty Coordinators from Dept. of ECE & EE (**Ankush Chottopadhyay and Arnab Baug**) helped to organize the contest. This contest was an Open Book Contest, where students were given 40 questions with Reference Link [ti.com](http://ti.com) to answer the questions and top 3 Winners from the college got a TIVA Launch pad from TI. The following student of ECE has won the contest.

### Co-curricular event /activities attended by students

Swapnanil Gupta (3rd year) was awarded 2nd Prize from Texas Instruments.

### Publication Details

1. Somali Sikder, Madhumita Sarkar and Shila Ghosh, "Optical Network Security using Unipolar Walsh Code" ICEEMAS'17. SVIT, Secunderabad.
2. A. K. Choudhary, S. Dutta and **R. Ghosh**, "Neonatal Jaundice Detection using Color Detection Method", International Advanced Research Journal in Science, Engineering and Technology, Vol. 4, Issue 7, July 2017.



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4. S. Seth, S. Mukherjee, **T. Dutta** and **R. Ghosh**, “Storage Efficiency Optimization of an Ultra Capacitor charged by a Photovoltaic Cell using Simulated Annealing”, International Journal of Engineering Research and Application , Vol. 7, Issue- 8, (Part-2), August -2017.
5. **Prasun Chowdhury**, Souvik De, “Programmable Multimode Twin Pump Controller,” Proceedings of IEEE International Conference on [Advances in Computing, Communications and Informatics \(ICACCI\)](#), 13-16 Sept. 2017.
6. A. Agarwal, **S. Mitra** and **S. Dutta**, “A comparative study of FIR filters using Vedic and Booths algorithm”, 8<sup>th</sup> IEEE International Conference, 26 Oct., 2017.