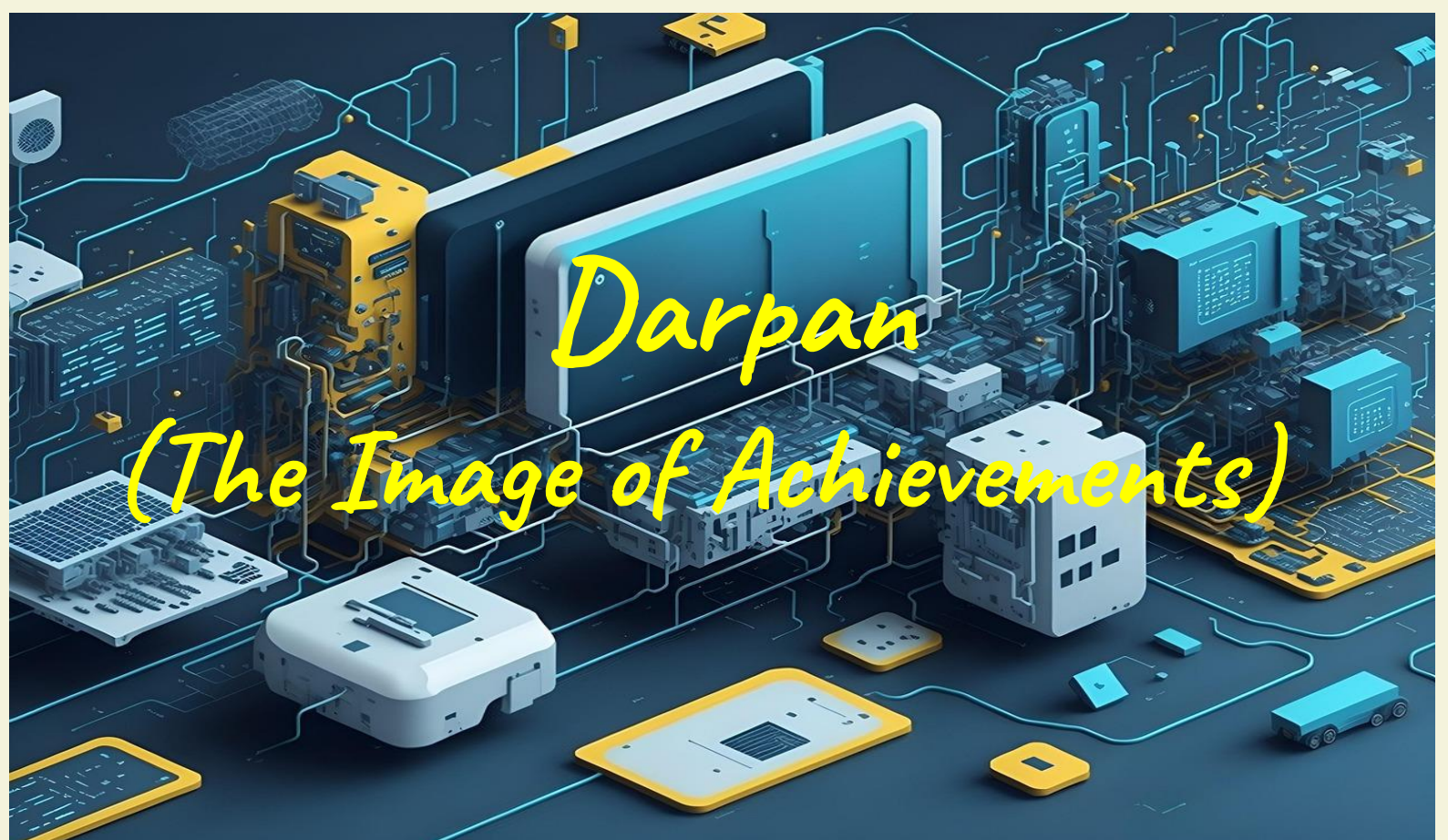


**St. Thomas' College of Engineering & Technology**

**4 D.H. ROAD, Kolkata, West Bengal**

# NEWSLETTER



**Darpan**  
**(The Image of Achievements)**

DEPARTMENT OF  
ELECTRONICS & COMMUNICATION ENGINEERING

*-: January to March :-*

VOLUME ECIX - EDITION III, APRIL 30, 2024

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Have a visit to our website:

[www.stcet.ac.in](http://www.stcet.ac.in)





# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata – 700023

## Department of Electronics & Communication Engineering

# Darpan

## (The Image of Achievements)

Volume: ECIX - Edition III, 30<sup>th</sup> April, 2024

### Editors:

1. Mr. Soham Saha  
B.Tech 4<sup>th</sup> year
2. Ms. Soumi Saha  
B.Tech 4<sup>th</sup> year
3. Mr. Jishnu Bhadra  
B.Tech 3<sup>rd</sup> year,
4. Miss. Sumana Manna  
B.Tech 3<sup>rd</sup> year
5. Mr. Kousik Sarkar  
B.Tech 2<sup>nd</sup> year
6. Ms. Rupsa Chakraborty  
B.Tech 2<sup>nd</sup> year
7. Mr. Adrishikhar Chowdhury  
B.Tech 1<sup>st</sup> year
8. Ms. Adrika Sarkar  
B.Tech 1<sup>st</sup> year

### Faculty in-charge :

1. Sudipta Dutta,  
Assistant Professor
2. Sumani Mukherjee,  
Assistant Professor

### For

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## Vision of the 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 the 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.

## Program Educational Objective

- Possess design skills and core proficiency in Electronics & Communication Engineering for employment in relevant industries.
- Possess strong core and advanced knowledge Electronics & Communication Engineering to pursue higher studies.
- Exhibit leadership, ethical values, and social commitment to contribute in academia, industry and/or entrepreneurial ventures, both nationally and globally.





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Department of Electronics & Communication Engineering

## Recent Technology Trend

### Designing Technology with Nature in Mind

Sustainable engineering focuses on creating systems that work in harmony with nature. Instead of wasting resources, engineers now design products that use renewable energy, recyclable materials, and energy-efficient processes. Solar-powered devices, green buildings, and eco-friendly transportation are good examples. The goal is not only to improve technology but also to protect the environment for future generations. By thinking carefully about long-term impacts, engineers help build a healthier and more balanced world.

Dr. Prasun Chowdhury

HOD, Department of Electronics and Communication Engineering

## Departmental Milestones

### STUDENTS' ACHIEVEMENTS

Our students have excelled in GATE 2024. Results were announced on **March 16, 2024**.

Name	Gate Paper Name	Rank
DEBAJIT PAUL	EC	4056
SHRINGYESH DAS	EC	5643
SUBHANITA SAHA	EC	7092

### HIGHER STUDIES:

**Srijani Bhattacharya** – pursuing MS in Communication and Information Technology from University of Bremen, Germany.

### STUDENTS PUBLICATION:

**Subhadeep Khan Abhiraj Mukherjee Ashmita Mondal Pratikshita Ghosh, Prasun Chowdhury** “**Seamless Home Protection: An IoT- Enhanced Smart Security Solution**” Published in the Proceedings of the National conference on Intelligent Systems IoT and Wireless Communication for the Society: IIWCS NIT Rourkela Feb 2024.





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Department of Electronics & Communication Engineering

## FACULTY ACHIEVEMENTS

### PUBLICATION DETAILS:

#### • PUBLISHED JOURNAL & CONFERENCE PAPERS

- [1] **Ankush Chattopadhyay**, “**Modeling of negative capacitance underlap graded-channel junction accumulation mode junctionless FET in nano-scale regime**”, Micro and Nanostructures, vol. 183, no. 207756, I. F.: 3.1, Jan. 2024, doi: <https://doi.org/10.1016/j.micrna.2024.207756>.
- [2] Kalyan Adhikary; **Prashnatita Pal**; and Jayanta Poray. “**The Minimum Spanning Tree Problem on networks with Neutrosophic numbers**”, Neutrosophic Sets and Systems 63, 1, Jan 2024.
- [3] **P. Pal**, R. Bhattacharya, J. Poray “**An enhancement to the electronic message security algorithm ensuring data Security**” The International Conference on Advances in Novel Materials: Towards Sustainable Future (ICAN24) held on 20-22 January 2024 in St. Xavier's College, Ranchi, India.

#### BOOK CHAPTER

1. Goswami, S., Poray, J., **Pal, P.**, Bhattacharya, S. Jan (2024). **Sentiment Analysis Using Fuzzy Model**. In: Iglesias, A., Shin, J., Patel, B., Joshi, A. (eds) Proceedings of World Conference on Information Systems for Business Management. ISBM. Lecture Notes in Networks and Systems, vol 833. Springer, Singapore. [https://doi.org/10.1007/978-981-99-8346-9\\_11](https://doi.org/10.1007/978-981-99-8346-9_11).

“

*Design is not just what it looks like and feels like. Design is how it works”*

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*Steve Jobs*

