



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

NEWSLETTER

Bits & Bytes

DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

-: January to March :-

VOLUME CSX - EDITION III, APRIL 22, 2025

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www.stcet.ac.in



St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata - 700023

Newsletter

Department

Computer Science & Engineering

Bits and Bytes

Volume: CSX - Edition III, 22nd APRIL, 2025

Vision of the Department

To continually improve upon the teaching-learning processes and research with a goal to develop quality technical manpower with sound academic and practical experience, who can respond to challenges and changes happening dynamically in Computer Science and Engineering.

Mission of the Department

- To inspire the students to work with latest tools and to make them industry ready.
- To impart research based technical knowledge.
- To groom the department as a learning centre to inculcate advanced technologies in Computer Science and Engineering with social and environmental awareness.

Program Educational Objective of Computer Science and Engineering

- Have skills to solve the problems by analysis, design, develop and implementation of algorithms leading to optimal solutions fulfilling the dynamic requirement of industry and society.
- Have good understanding of Computer Science and Engineering concepts, making them practicing engineers with sound knowledge of logic and design, in Industries.
- Undertake research in emerging fields in computer science and engineering so as to face the challenges of global challenges in their higher studies and by lifelong learning.

Editors:

1. Mr. Dyutiprovo Sarkar
B.Tech 4th year,
2. Ms. Swastika Kayal
B.Tech 4th year,
3. Ms. Disha Paul
B.Tech 3rd year,
4. Mr. Swastik Dutta
B.Tech 2nd year
5. Ms. Nishantika Banerjee
B.Tech 1st year

Faculty in-charges:

1. Dr. Tapalina Banerjee Bhattacharjee,
Assistant Professor
2. Rajib Dutta,
Assistant Professor
3. Mr. Ranit Baram,
Assistant Professor
4. Ms. Debosmita Roy
Assistant Professor

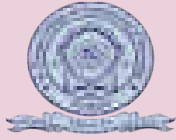
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Departmental Milestones

Student's Achievements

- Our students have once again excelled in GATE 2025. Results were announced on **March 19, 2025**, by IIT Roorkee. Out of over 9.36 lakh registered and 7.47 lakh appeared candidates nationwide, only around 20% qualified—making our students' performance even more commendable. Here is the list:

Name	GATE Paper Name	Rank
Mehuli Chatterjee	CS	871
Sampryo Guin	DA	1711
Ishita Kar	CS	2180
Dhutiprovo Sarkar	DA	8014
Agnibha Chakraborty	CS	8799
Satadipta Dutta	CS	10873
Raunak Dey	CS	15665

GATE 2025 cut-off marks of the above mentioned subjects:

Paper Code	Test Paper	No. Candidates Registered	No. Candidates Appeared	Cut-off (GEN)	Cut-off (OBC-NC L/EWS)	Cut-off (SC/ST/PwD)
CS	Computer Science and Information Technology	207851	170825	29.2	26.2	19.4
DA	Data Science and Artificial Intelligence	75854	57054	29	26.1	19.3

- Best paper award** received by **Ishita Kar, Mehuli Chatterjee, Sukanya Manna, Akash Das, and Stobak Dutta** for the paper “Supervised Learning-Driven Emotion Recognition through Facial Landmark Trajectories Enhanced by SMOTE Methodology”, presented in International Conference 2025 AI-Driven Smart Healthcare for Society 5.0 IEEE, February 14-15, 2025.





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- **Ayushman Ghosh, Raunak Parai, Rishabh Chakraborty, and Soham Jana**, students of second year, secured **2nd position** in **Poster Presentation Competition of Innovative Ideas/ Innovation** organized by IIC, IE(I) CSE on February 19-21, 2025.



- **Gahan Das**, 1st year has secured **TOPPER, SILVER, ELITE** with 84% in *Programming, Data Structures And Algorithms Using Python*, 8 week NPTEL course (Jan-Mar 2025).



- **Anirban Das**, 3rd year, secured **1st position** in **Pictale Event of Amiphoria 2025**, Amity University, Kolkata on 5th March, 2025.

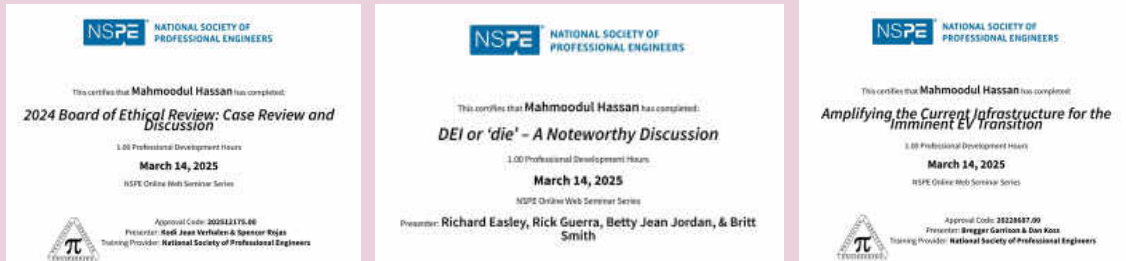




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- **Mahmoodul Hassan**, 1st year, completed NSPE (National Society of Professional Engineers) online web seminar series on 14th March, 2025.



- **Ms. Riddhi Datta**, 1st year, secured *1st position* and **Meghna Mukhopadhyay**, 2nd Year, participated in **Innovative Idea Presentation competition** on “Problem Solving and Ideation Workshop” to celebrate National Science Day organized by R&D cell in association IIC and IEEE Student Branch on 28th February, 2025.



Publication Details

- Anukul Maity, **Mousumi Dutt**, and Arindam Biswas. “A combinatorial algorithm for finding straight skeleton of a digital object.” Multimedia Tools and Applications, 2025 (online published).[†]
- Subham Shome, Radhika Mandawewala, Subhasish Roy, Anirban Mitra, Subrata Paul, Amitava Podder, **Stobak Dutta**, “Efficient Algorithm for Optic Disc Segmentation in Retinal Images”. Journal of Neonatal Surg, vol-14, 2025.[†]
- **Suparna Dutta**, Monidipa Das, and Ujjwal Maulik, “Lightweight deep learning models for aerial scene classification: A comprehensive survey”, Engineering Applications of Artificial Intelligence, vol. 142, pp. 109859, 2025.[†]
- **Amartya Chakraborty** and Nandini Mukherjee, “Topic and opinion infused hypergraphs for influence maximization”, Physics Letters A”, vol. 545, pp. 130507, 2025.[†]

[†] Publications/Patent by college faculty

* Publications by college students under the guidance of college faculty



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- **Mahuya Roy**, Bijendra Kumar, Soumit Chowdhury, Tapas Kumar Bhattacharya, Satyabrata Maity, Partha Haldar “Microstructural analysis of Ceramic materials Through machine learning Techniques: A Benchmarking interdisciplinary Review for Ceramic material characterization”, Journal of The Institution of Engineers (India): Series D, 2025.†
- **Ishita Kar, Mehuli Chatterjee, Sukanya Manna, Akash Das, and Stobak Dutta**. “Supervised Learning-Driven Emotion Recognition through Facial Landmark Trajectories Enhanced by SMOTE Methodology”, In 2025 AI-Driven Smart Healthcare for Society 5.0, pp. 159-164. IEEE, 2025. *
- **Subrata Paul, Amartya Chakraborty, Stobak Dutta, Keya Das Ghosh, and Anirban Mitra**. “Leveraging the Commerce Graph for Optimizing Digital Commerce”, Procedia Computer Science 259, 2025. †

† Publications/Patent by college faculty

* Publications by college students under the guidance of college faculty

Update in Professional Memberships

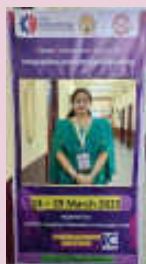
- 7 (seven) new student members of second year have joined the prestigious **Institution of Engineers (India) [IEI]** chapter during this time. Students are **Ayushman Ghosh, Rupam Das, Sumit Datta, Swarnava Lahiri, Kaushiki Sarkar, Sombit Karmakar, and Gori Biswas**.
- 4 (four) number of students into the prestigious **IEEE WIE Student Membership Program** this term. Students are **Sonal Agarwal, Soha Hasib, Monojit Pal, and Rachana Francis**.

Faculty Development Program (FDP) Detail and Achievement

- **Dr. Tapalina Banerjee Bhattacharjee and Ms. Suparna Dutta** successfully completed the **Faculty Enrichment Program** on January 30, 2025 at **LTIMindtree**.



- **Dr. Tapalina Banerjee Bhattacharjee** successfully completed the Faculty Development Program (FDP) on **Innovation & Entrepreneurship**, organized by the **Ministry of Education Innovation Cell (MIC)** and the **All India Council for Technical Education (AICTE)**, coordinated by the **Jadavpur University Institution's Innovation Council (IIC)** during March 24-29, 2025 and she with her team got **2nd position** in the competition held parallelly with the FDP.





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IIC Lecture Delivered by Departmental Faculty Member(s)

- **Dr. Tapalina Banerjee Bhattacharjee**, Innovation Ambassador, MoE' Innovation Cell, Member, IIC, STCET, and Assistant Professor, Dept. of CSE, STCET delivered lecture in the seminar "Achieving Problem - Solution Fit and Product-Market Fit" to 3rd year students.

The poster is for a seminar titled "Achieving Problem-Solution Fit and Product-Market Fit" held at St. Thomas' College of Engineering & Technology. It is organized by the Institution's Innovation Council (IIC). The speaker is Dr. Tapalina Banerjee Bhattacharjee, Innovation Ambassador, MoE' Innovation Cell, Member, IIC, STCET, and Assistant Professor, Dept. of CSE, STCET. The seminar is scheduled for 05th March 2025 at 3:30 p.m. in Venue: Room No. 211.

ST. THOMAS' COLLEGE OF ENGINEERING & TECHNOLOGY
4, Diamond Harbour Road, Kolkata - 700023, WB

Seminar on
Achieving Problem-Solution Fit and Product-Market Fit

ORGANIZED BY
INSTITUTION'S INNOVATION COUNCIL

Venue: Room No. 211
05th March 2025 3:30 p.m.

Speaker: 
Dr. Tapalina Banerjee Bhattacharjee
Innovation Ambassador, MoE' Innovation Cell
Member, IIC, STCET
Assistant Professor, Dept. of CSE, STCET

“A computer is like a violin. You can imagine it making beautiful music, but you have to learn how to play it.”

– BILL GATES, THE FOUNDER OF MICROSOFT