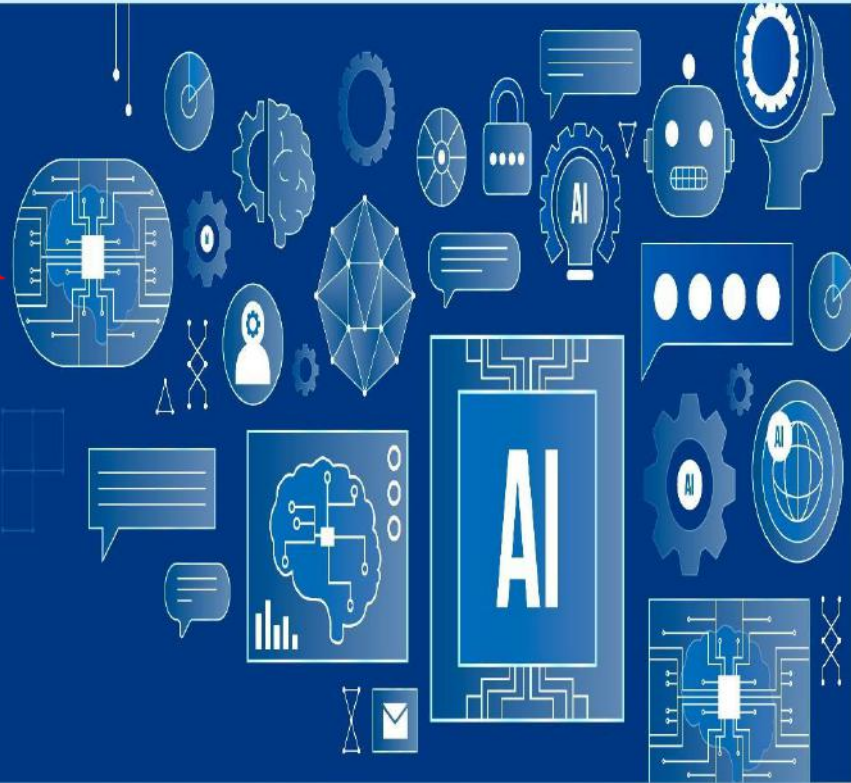




St. Thomas' College of Engineering & Technology
Kidderpore, Kolkata, West Bengal

NEWSLETTER
Bits & Bytes



DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

-: October to December :-

V O L U M E CSIX - EDITION II, JANUARY 31, 2024

For Further Information Contact: mousumi.dutt@stcet.ac.in

Have a visit to our website:

For Feedback Contact: subhankar.mallick@stcet.ac.in

www.stcet.ac.in



St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata - 700023

Bits and Bytes

Volume: CSIX-Edition: II, 31st JANUARY, 2024

Vision of the Department

Editors:

1. Mr. Arinjay Bhowmick,
B.Tech 4th year,
2. Ms. Supriti Kole,
B.Tech 4th year,
3. Ms. Tanir Sahoo,
B.Tech 3rd year,
4. Mr. Anwesha Chakraborty,
B.Tech 2nd year
5. Ms. Prachi Bhosale,
B.Tech 1st year

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

Faculty in-charges:

1. Mr. Subhankar Mallick
Assistant Professor
2. Dr. Tapalina Banerjee
Bhattacharjee,
Assistant Professor

- 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 for inculcating advancement of technology in Computer Science and Engineering with social and environmental awareness.

Program Educational Objective of Computer Science and Engineering

For

Further Information Contact:

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For Feedback Contact:

subhankar.mallick@stcet.ac.in

- To educate students to solve the problems for analysis and implementation of algorithms leading to optimal solutions fulfilling the dynamic requirement of industry and society.
- To inculcate into students the understanding of Computer Science and Engineering for grooming would be practicing engineers with sound knowledge of logic and design.
- To execute research in emerging fields in computer science and engineering so as to face the challenges of global competitiveness.



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Departmental Milestones

Student's Achievements:

- ❖ **Aayush Chowdhury**, 1st year has achieved 3rd position in the Elocution Competition to celebrate **National Education Day** (November, 21st - 22nd, 2023) conducted by Institution's Innovation Council (IIC) and Extra-Curricular Activity Cell (ECAC). He has also secured the 1st position in the Extempore Competition to celebrate **National Entrepreneurship Day** (15th December, 2023) conducted by Institution's Innovation Council (IIC) and Extra-Curricular Activity Cell (ECAC).



- ❖ **Debarati Banerjee**, 1st year has achieved 1st position in the Elocution Competition to celebrate **National Education Day** (November, 21st - 22nd, 2023) conducted by Institution's Innovation Council (IIC) and Extra-Curricular Activity Cell (ECAC).



- ❖ **Dyutiprovo Sarkar**, 3rd year has achieved 3rd position in the Elocution Competition to celebrate **National Education Day** (November, 21st - 22nd, 2023) conducted by Institution's Innovation Council (IIC) and Extra-Curricular Activity Cell (ECAC).





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- ❖ **Arnab Chowdhury**, 4th year has secured **SILVER and ELITE** with 80% in Google Cloud Computing Foundations 8 weeks (Aug-Oct 2023) NPTEL course.



Publication Details

- ❖ **Mousumi Dutt**[†], Mayuri Ghosh, and Arindam Biswas, "Generation of straight line in hexagonal cell grid", International Conference on Frontiers in Computing and Systems, Springer Nature, vol. 975, pp. 357–367, 2023.
- ❖ **Amiya Halder**[†], Rudrajit Choudhuri, Arinjay Bhowmick, "Rough Spatial Ensemble Kernelized Fuzzy C Means Clustering for Robust Brain MR Image Tissue Segmentation", Computer Vision & Image Processing (CVIP-2023), Springer, vol. 2011, pp. 350-363, 2023.
- ❖ Prattay Paul, Soham Ghosh, **Amiya Halder**[†], "Rough Enhanced Fuzzy Segmentation Algorithm for Region Detection", International Conference on Frontiers in Computing and Systems, Springer, vol. 975, pp. 563-578, 2023.
- ❖ **Amiya Halder**[†], Rudrajit Choudhuri, Apurba Sarkar, "Automated Brain Tumor Analysis Using Deep Learning-Based Framework", Medical Data Analysis and Processing using Explainable Artificial Intelligence, pp. 123-148, ISBN:978-1-003-25772-1, 2023.
- ❖ **Suparna Dutta**[†], Monidipa Das, and Ujjwal Maulik, "Toward causality-based explanation of aerial scene classifiers", IEEE Geoscience and Remote Sensing Letters, vol. 21, pp. 1-5, 2023.
- ❖ **Amartya Chakraborty**[†], Suwendu Chattaraj, "CAGSI: A classification approach towards gait speed identification," Human-Centric Intelligent Systems, vol. 4, pp. 161–170, 2024.
- ❖ Ayusha Burman, Shaswata Karan, Shreya Mallik, Drishti Majee, Mayukh Bal, Sumit Anand, **Amartya Chakraborty**[†], "On identifying communities in online hate speech", New Frontiers in Communication, Automation, Management and Security (ICCAMS), vol. 1, pp. 1–6, 2023.
- ❖ **A. Chakraborty**, D. Pal, and N. Mukherjee, "Context-aware community detection in the russia-ukraine conflict network," in 25th International Conference on Distributed Computing and Networking (ICDCN '24), January 04–07, 2024, Chennai, India, ACM, New York, NY, USA, 2024, pp. 1–6. DOI: 10.1145/3631461.3632089.

[†]Publications/Patent by college faculty

*Publications by college students under the guidance of college faculty



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Patents Details

- ❖ **Stobak Dutta**[†], Brojo Kishore Mishra, Anirban Mitra, **Amartya Chakraborty**[†], “Proposed Model for Emotion Recognition Using Physiological Signal”. SSRN 4667544, Dec, 2023

[†] Publications/Patent by college faculty

* Publications by college students under the guidance of college faculty

Faculty Participation in Online Course

- ❖ **Dr. Amit Paul** has successfully completed 5-days (18st December – 22nd December, 2023) online FDP on **Building Advanced Data Analytics Applications with Cloud** organized by ATAL (Edunet Foundation).



Faculty Achievement

- ❖ **Mr. Amartya Chakraborty** received the best paper award for the following paper:

A. Chakraborty, D. Pal, and N. Mukherjee, “Context-aware community detection in the russia-ukraine conflict network,” in 25th International Conference on Distributed Computing and Networking (ICDCN '24), January 04–07, 2024, Chennai, India, ACM, New York, NY, USA, 2024, pp. 1–6. DOI: 10.1145/3631461.3632089.



*“Everybody should learn to program a computer, because
it teaches you how to think.”*

- STEVE JOBS, FORMER CEO AND CREATOR OF APPLE