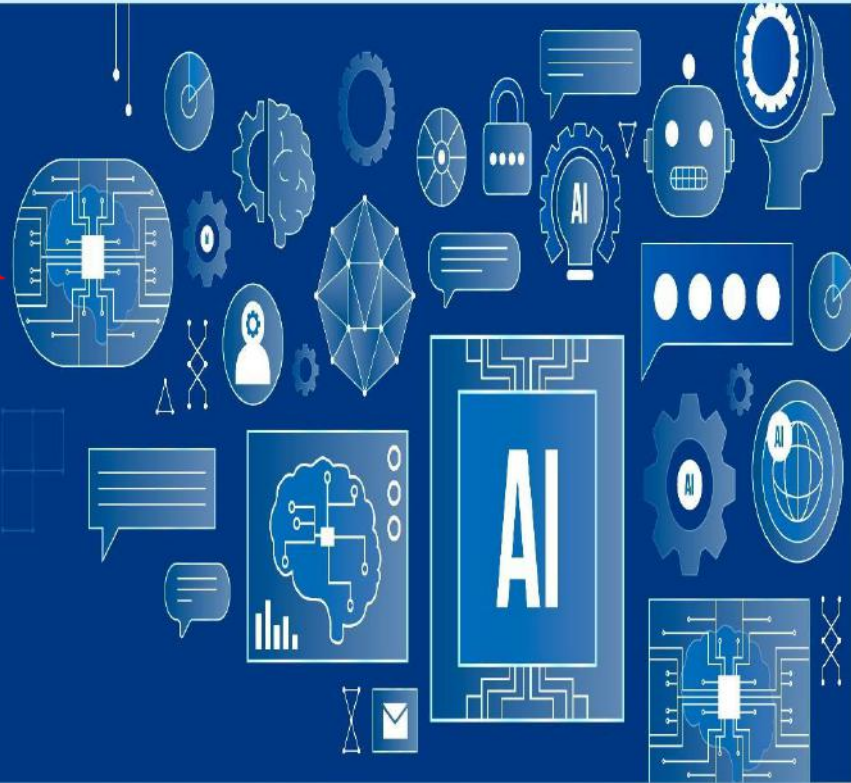




St. Thomas' College of Engineering & Technology
Kidderpore, Kolkata, West Bengal

NEWSLETTER
Bits & Bytes



DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

-: January to March :-

V O L U M E CSIX - EDITION III, APRIL 30, 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



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Volume: CSIX-Edition: III, 30th APRIL, 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:

mousumi.dutt@stcet.ac.in

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.



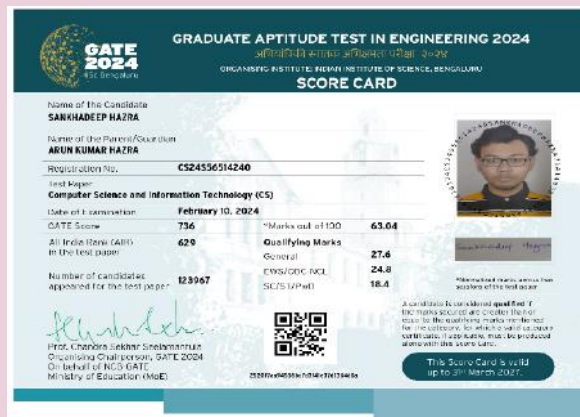
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Departmental Milestones

Student's Achievements:

- ❖ **Sankhadeep Hazra**, 4th year student, GATE qualified having AIR 629 in CS paper organized by IISC, Bengaluru in the year 2024.



- ❖ **Sreedipta Karmakar**, a 4th year student, secured third position in "CODE DEBUGGING" event of "CODIGO", which was held on 15th - 16th March 2024. It is organized by St. Thomas' College of Engineering and Technology, Co-curricular Activity Cell and IEEE Student Branch (St. Thomas' College of Engineering and Tech- Kolkata).



- ❖ **Anwesha Chakraborty and Shreyashi Ghosh**, 2nd year has secured 3rd position in "CODE CRAFTERS CHALLENGE" event of "CODIGO", which was held on 15th - 16th March 2024. It is organized by St. Thomas' College of Engineering and Technology, Co-curricular Activity Cell and IEEE Student Branch (St. Thomas' College of Engineering and Tech- Kolkata).





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- ❖ **Disha Paul**, 2nd year has participated in “CODIGO” which was held on 15th March 2024. It is organized by IEEE Student Branch (St. Thomas' College of Engineering and Tech- Kolkata).



Publication Details

- ❖ **Stobak Dutta†**, Brojo Kishore Mishra, Anirban Mitra, Amartya Chakraborty “A narrative review on the characterisation of automated human emotion detection systems using biomedical sensors and machine intelligence”, International Journal of Reasoning-based Intelligent Systems, Inderscience Publishers (IEL), Vol 15, No. 3-4, pp. 266-276, Jan 2024.
- ❖ Suvendu Chattaraj, **Amartya Chakraborty†**, and Biplab Das, “Performance evaluation of a new Kalman filter based peer-to-peer tracking scheme for indoor environment”, Internet Technology Letters, vol. 7, no. 6, 2024.
- ❖ **Amartya Chakraborty†**, Suvendu Chattaraj, “CAGSI: A classification approach towards gait speed identification,” Human-Centric Intelligent Systems, vol. 4, pp. 161–170, 2024.
- ❖ Sabyasachi Samanta, Sudipta Roy, **Abhijit Sarkar†**, Dipak Kumar Jana, “Linguistic Response Surface Methodology Approach to Measuring the Quality of Nonlinear Frame-Pixel and Bit Place-based Video Steganography”, Security and Privacy, John Wiley & Sons, vol. 7, no. 5, pp 1-27, 2024.
- ❖ **Amartya Chakraborty†**, Nandini Mukherjee, “Information spread in opinionated social networks”, Data Science& Management of Data, pp. 570–571, 2024.
- ❖ **Amartya Chakraborty†**, Deepamoy Pal, Nandini Mukherjee, “Context-aware community detection in the Russia-Ukraine conflict network”, Distributed Computing and Networking, pp. 328–333, 2024.

† Publications/Patent by college faculty

* Publications by college students under the guidance of college faculty

Patents Details

- ❖ A System For Dynamic Optimization Of Precision Agriculture Integrating Machine Learning And Mathematical Models, 202431013918, 1) Dr. Santanu Koley, 2) Dr. Saikat Adhikari, 3)Dr. Chiranjib Chakravartty, 4)**Abhijit Sarkar†**, 5) **Ranit Baram†**, 6) Dr. Manojit Bhattacharya, 7) Dr. Swapnil Ganesh Jaiswal, 8) Dr. Debashis Ghosh, 9) Dr. Raja Rawat, 10) Dr. Aparajita Mukherjee, 11) Dr. Pankaj Singh Rana, INDIA, 2024

† Publications/Patent by college faculty

* Publications by college students under the guidance of college faculty



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Faculty Participation in Online Course

- ❖ **Suparna Dutta** and **Swapna Halder** has successfully completed 5-days (12th February – 16th February, 2024) online **FDP on Data Science and its application (DSCA 2024)** organized by Dr. B. C. Roy Academy of Professional Courses.



- ❖ **Sayani Bose** has successfully completed 5-days (05th February – 09th February, 2024) online **FDP on Python Programming with DJANGO Framework for Building Web Applications** organized by CMR Engineering College.

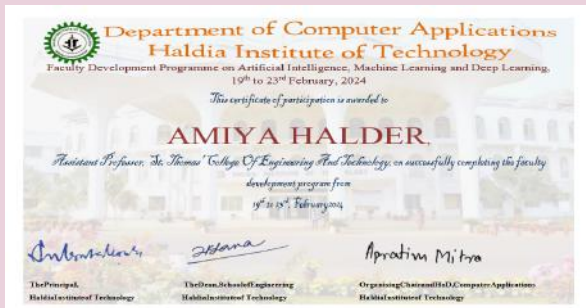




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- ❖ **Dr. Mousumi Dutt, Dr. Tapalina Banerjee Bhattacharjee, Subhankar Mallick, Amiya Halder, Debashis Chakraborty, Sayani Bose, Ranit Baram, Jaya Das and Swapna Halder** has successfully completed 5-days (19th February – 23rd February, 2024) online FDP on **Artificial Intelligence , Machine Learning, and Deep Learning** organized by Haldia Institute of Technology.



- ❖ **Ritesh Prasad** has successfully completed 5-days (19th February – 23rd February, 2024) online FDP on **Exploring emerging research trends in computing technologies: AI, ML, IOT** organized by MCKV Institute of Engineering.

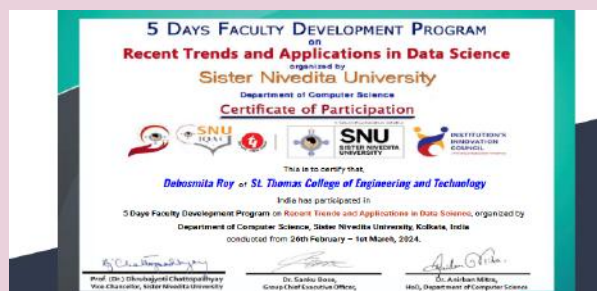




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- ❖ Samrat Sarkar, Subhankar Mallick, Dr. Tapalina Banerjee Bhattacharjee, Suparna Dutta, Sanghamitra De, Ranit Baram, Sayani Bose, Jaya Das and Debosmita Roy has successfully completed 5-days (26th February – 01st March, 2024) online FDP on Recent Trends and Applications in Data Science organized by Sister Nivedita University.



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

- STEVE JOBS, FORMER CEO AND CREATOR OF APPLE