St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

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Vision

To promote the advancement of learning in Information Technology through research oriented dissemination of knowledge which will lead to innovative applications of information in industry and society.

Mission

- To incubate students grow into industry ready professionals, proficient research scholars and enterprising entrepreneurs.
- To create a learner- centric environment that motivates the students in adopting emerging technologies of the rapidly changing information society.
- To promote social, environmental and technological responsiveness among the members of the faculty and students.

Recent Technology Trend: Importance of Pattern Recognition

Pattern recognition is a branch of machine learning which focuses on the recognition of patterns and regularities in data. In some cases, pattern recognition is also considered to be nearly synonymous with machine learning. It finds its usage in almost every wing of science as well as in our day-to-day life. In medical science, it is the foundation for computer-aided diagnosis (CAD) systems. Some typical applications of pattern recognition techniques are automatic speech recognition, classification of text into several categories like spam/non-spam email messages. Pattern recognition also finds its application for automatic recognition of images of human faces, hand-writing recognition etc. Optical character recognition is another classic example of pattern recognition.

Prof. Amit Kumar Siromoni

Head of the Department,

Department of Information Technology,

St. Thomas' College of Engineering and Technology

Departmental Milestones

Achievements in Smart India Hackathon 2018 (Software Edition)

A team of six students, *Vision Quest*, **Rahul Kumar, Atul Kumar**, **Shivam Kumar**, **Smriti Bhunia**, and **Roshan Aftab** of 3rd Year IT with A.N.V.K.S. Sai (3rd year EE), **won 2nd PRIZE** in **Smart India Hackathon 2018,** 'Ministry of **Road Transport And Highways**' at Nagpur.

Another team of six IT students, **Aniket Vishal**, **Samonnita Pal**, **Anurag**, **Anirban Mukherjee**, **Aman Kumar** (Roll: 21) and **Aman Kumar** (Roll: 22) of 3rd Year, appeared in **GRAND FINALS** of '**Ministry of Women And Child Developmen**t' at Indore.

Best Performance in End Semester University Examination:
- **Devlina Paul,** 4th Year**,** 7th Semester, SGPA: 9.67
- **Aman Kumar,** 3rd Year**,** 5th Semester, SGPA: 9.35
- **Poulami Mukherjee,** 2nd Year, 3rd Semester, SGPA: 9.31
- **Soumi Chatterjee,** 1st Year, 1st Semester, SGPA: 9.48

Students' Performance in SPORTS
- In **Cricket Tournament (Boys)**, **IT Department** titled **Champion**.
- In **Badminton tournament: Susweta Adhikary,** 4th year, **1st runner up** (Girls Singles), and **Debarghya Basu,** 4th year, **1st runner up** (Boys Singles).
- **Ritu Singh,** 2nd Year, **WINNER** in **50m**, **100m** and **200m** Girls' Race.
- **Madhurima Bhowmick,** 4th Year, **1st runner up** in Girls' Long jump.
- **Akash Shaw,** 4th year, **2nd runner** up in 400m Boys race.
- **Saloni Pradhan** of 3rd year, **2nd runner up** in Hitting the wicket.
- **Ritu Singh & Dishani Sarkar (2nd Year), Madhurima Bhowmick & Fatima Nazar (4th Year), 1st runner** up in Relay race (Girls).

Faculty Development Programme attended
- **Ms. Sanchita Saha Ray** and **Mr. Arindam Chakravorty** attended a Short Term Training Programme on *Introduction to Database Management System* held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata From 08/01/2018 To 19/01/2018 (2 Weeks).

Conference Service
- **Dr. Arijit Ghosal** acted as a **session chair** in 1st International Conference on "Emerging Technologies In Data Mining And Information Security (IEMIS 2018)", February 23rd-25th, University of Engineering & Management, Kolkata, India.

PUBLICATION DETAILS

1. **R. Ghoshal**[+], A. Banerjee, "` An Improved Scene Text and Document Image Binarization Scheme", 4th IEEE International Conference on Recent Advances In Information Technology RAIT 2018 at 15th - 17th March'18.
2. **A. Ghosal**[+], G. Yasmin[!], D. Banerjee. "Differentiation of Speech and Song using Occurrence Pattern of Delta Energy", *International Conference on Soft Computing in Data Analytics (SCDA)*, Springer, India, March 10-11, 2018
3. G. Yasmin[!], O. Mullick, **A. Ghosal**[+], A.K. Das. "Gender Recognition inclusive with Trans-Gender from Speech Classification", *International Conference on Emerging Technologies In Data Mining and Information Security (IEMIS)*, Springer, Kolkata, West Bengal, India, February 23-25, 2018.
4. **A. Ghosal**[+], S. Dutta, D. Banerjee. "Stratification of String Instruments using Chroma-based Features", *IEMIS 2018*, Springer, Kolkata, West Bengal, India, February 23-25, 2018.
5. D. Banerjee, **A. Ghosal**[+], I. Mukherjee. "Prediction of Gold Price Movement Using Geopolitical Risk as a Factor", in *IEMIS 2018*, Springer, Kolkata, West Bengal, India, February 23-25, 2018.
6. A. Banerjee[*], S. Bhattacharjee[*], **Sk. Latib**[+], "Vessel extraction and Fovea Detection Using Morphological Processing", ICCAN-2017, India, 15-16 December 2017.
7. A. Halder[!], S. Guha[*], "` Rough Kernelized Fuzzy C-Means Based Medical Image Segmentation", First International Conference on Computational Intelligence, Communications, and Business Analytics (CICBA'17), Springer- Singapore, March 24-25, 2017, pp 466-474.

+: IT Faculty, !: Other departments' faculty, *: Student