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:

Artificial Intelligence to aid in prediction of premature deaths and facilitate preventive healthcare measures

A team of healthcare data scientists and doctors have recently developed and tested an Artificial Intelligence based machine learning system that can predict the risk of premature death in middle aged people due to chronic diseases, as reported by experts of University of Nottingham, United Kingdom. The study has been conducted on more than half a million people in the age bracket of 40 to 69 during 2006 to 2010. and observed till 2016. The AI learning models of 'random forest' and 'deep learning', that have been used in the study, have proved to be much more accurate when compared to the traditional 'Cox-regression' method. Dr. Stephen Weng, Assistant Professor, Epidemiology and Data Science has said, "This uses computers to build new risk prediction models that take into account a wide range of demographic, biometric, clinical and lifestyle factors for each individual assessed, even their dietary consumption of fruit, vegetables and meat per day."

Ref.: Stephen F. Weng, Luis Vaz, Nadeem Qureshi, Joe Kai. *Prediction of premature all-cause mortality: A prospective general population cohort study comparing machine-learning and standard epidemiological approaches. PLOS ONE*, 2019; 14 (3)

Dr. Arindam Chakravorty,
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Departmental milestones

Best Performance in End Semester University Examination:
- **Diksha Saha,** 4th Year, 1st Semester, SGPA: 9.33
- **Poulami Mukherjee,** 3rd Year, 1st Semester, SGPA 9.15
- **Esha Nandi,** 2nd Year, 1st Semester, SGPA 9.21
- **Srishti Ganguly,** 1st Year, 1st Semester, SGPA 9.54

Industrial Visit

The students of third year visited Cognizant Technology Solutions on March 14, 2019. Mr. Abhik Chakraborty and Mr. Lokenath Chakraborty of CTS briefed the students about the operations at CTS and the expectation of CTS from the interviewees.

NSS Activity

A seminar on '**road safety**' was conducted on 13.03.2019. *Speaker*- Senior inspector of Watgunj police station. *Target audience*- students of all years with special emphasis on 1st year students.

Students' Chapter of The Institution of Engineers (India)

The Students' Chapter of The Institution of Engineers (India) was inaugurated on February 15, 2019 followed by Technical Talk on *Development Using Docker Container* by Mr. Arnab Neogi, Sr. Developer, Cognizant Technology Solutions.

PUBLICATION DETAILS

Conference Publications

1. A. Ghosal[+], S. Dutta, D. Banerjee, "Classification of Speech & Song using Co-occurrence Based Approach", CIPR 2019, IIEST, Shibpur.
2. A. Ghosal[+], C.Pathak*, P. Singh*, S. Dutta*, "Voice Based Gender Identification Using Co-occurrence Based Features", CIPR 2019, IIEST Shibpur.
3. R. Ghoshal[+], A. Banerjee, "SVM and MLP based Segmentation and Recognition of Text from Scene Images Through an Effective Binarization Scheme ", CIPR 2019, IIEST .
4. S. Basu[+], M. Kule, "On The Synthesis Of Unate Symmetric Function Using Memristor-Based Nano-Crossbar Circuit", CIPR 2019, IIEST, Shibpur.

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