St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

TECH TIMES

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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.

Editors:
1. Ms. Sanchita Saha Ray, Assistant Professor, IT

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RECENT TECHNOLOGY TREND: Helicopter to rover on Martian surface

In a latest press release, the National Aeronautics and Space Administration (NASA), United States have said that it plans to send a small remote-controlled helicopter to rover in the skies of Mars as a part of its 2020 space mission. The US space agency has said that it is going be the first such aircraft to be launched in the skies of another world other than Earth. The small helicopter will weigh about 1.8 kilograms with two counter rotating blades and a fuselage (main body) of the size of a softball. The rotational speed of the blades will be about 3000 rpm, almost 10 times the speed of blades used in Earth. The rotorcraft will reach the Mars attached to a rover of the size of a car. The spaceship will have Li-ion batteries to be charged by solar cells and also have heating mechanism to withstand the extreme cold at night.

Prof. Amit Kumar Siromoni
Head of the Department,
Department of Information Technology,
St. Thomas' College of Engineering and Technology

DEPARTMENTAL MILESTONES

Best Performance of Final Year Students in University Examination:
- **Emily Mukherjee** (2017 passed out), ranked 3rd position.

Best Performance in End Semester University Examination:
- **Harsh Bharvada,** 3rd Year**,** 6th Semester, SGPA: 9.00
- **Diksha Saha,** 2nd Year 4th Semester, SGPA 9.35
- **Poulami Mukherjee,** 1st Year, 2nd Semester, SGPA 9.59

Performance in NPTEL:

- **Arkoprovo Sircar** of 3rd year, secured 82% in Programming, Data Structures AndAlgorithm using Python. Received an Elite Certificate
- **Ayush Bhattacharjee** of 3rd year, secured 75 % in Programming, Data Structure And Algorithm using Python. Received an Elite Certificate

Ph.D Awarded:

- **Mr. Soumen Kumar Pati**, received his PhD degree in July 2017 from Indian Institute of Engineering, Science and Technology (IIEST). His research field is Bioinformatics.
- **Mr. Ranjit Ghosal**, received his PhD degree in September 2017 from Jadavpur University. His research field is Document image analysis, Pattern Recognition.

Industrial Training:

Industrial Training for final year students of the department was arranged at STCET on **R programming** in context with Machine Learning from 27th June, 2017 to 19th July, 2017 coordinated and deployed by Dirac Business solutions Pvt. Ltd

PUBLICATION DETAILS

1. Journal Publication

1. **K. Das** , A. Sen, S. Bandhopadhyay, "A Robust Visual Cryptography Scheme for Imperceptible Distribution of Secret Message without Pixel Expansion", International Journal of Advanced Trends in Computer Science and Engineering, Volume 6, No.4, July - August 2017.
2. **K. Das** , A. Sen, S. Bandhopadhyay, "A Secure Multi layered Image Cryptosystem - A blend of chaotic theory and feedback shift register", International Journal of Applied Research 2017; 3(7): 1249-1254.
3. **A. Chakravorty**, D. Laha, "A heuristically directed immune algorithm to minimize makespan and total flow time in permutation flow shops", International Journal of Advanced Manufacturing Technology, 93(9–12): 3759–3776, 2017.

2. Conference Publication

1. S. Dutta, **A. Ghosal**[+]. "A Hierarchical Approach for Silence/Speech/Music Classification", International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), IEEE, Chennai, Tamil Nadu, India, September, 2017.
2. G. Yasmin[!], S. Dutta, **A. Ghosal**[+]. "Discrimination of Male and Female Voice Using Occurrence Pattern of Spectral Flux", International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), IEEE, Chemperi, Kerala, India, pp. 1654-1660, July, 2017.
3. G. Yasmin[!], A. K. Das, **A. Ghosal**[+]. "A Hierarchical Stratagem for Rice Leaf Disease Distinction", International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), IEEE, Chemperi, Kerala, India, pp. 292-298, July, 2017.

4. S. Sengupta[*], G. Yasmin[!], **A. Ghosal**[+], "Classification of male and female speech using perceptual features", International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE, IIT Delhi, India, pp. 1-7, July, 2017.

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