St. Thomas' College of Engineering and Technology
4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

Bits and Bytes

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Vision of the Department

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

- 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 to inculcate advanced technologies in Computer Science and Engineering with social and environmental awareness.

Departmental Milestones

Best Performance in End Semester University Examination:
- **Prachi Nigania**, 4th Year, 7th Semester, CGPA: 9.44
- **Samrat Dutta**, 3rd Year, 5th Semester, CGPA: 9.50
- **Tapashi Dutta**, 2nd Year, 3rd Semester, CGPA: 9.55
- **Tamaghno Chaudhuri**, 1st Year, 1st Semester, CGPA: 9.48

Best Session Paper Award:
- **Amiya Haldar**, **Avranil Maity**, **Apurba Sarkar**, and **Ananya Das**, A Dynamic Spatial Fuzzy C-means Clustering based Medical Image Segmentation, International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS), February 23-25, 2018.
- **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, India, 2018.
- **Soumen K. Pati**, Asit K. Das, "Computational Intelligence in Microarray Data Analysis", International Conference on Emerging Technologies in Data Mining and Information Security, (IEMIS), Springer, Kolkata, India, 2018.

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Events:
- **Aditya Saha** and **Sayan Das** have been selected for participating at Zonal level of ANVESHAN 2018 in the area of Engineering and Technology
- **Mayukh Mitra**, has participated in Ethical hacking Workshop conducted by Vidyavilla Foundation, March 24-25, 2018, Indian Institute of Technology, Kharagpur.

Courses outside Curriculum:
- **Spandan Banerjee**, 1st Year, completed successfully the course on Data Foundation, Nano Degree Program
- **Spandan Banerjee**, 1st Year, worked as Campus Ambassador on a campaign managed by FRAPP

Industrial Training:

- **Riddhiman Dey**, 1st Year, attended four weeks winter industrial training program on Ethical Hacking and Computer Security from 15th December, 2017 to 10th January, 2018 at Tech Learning Solutions Pvt. Ltd., Infinity Benchmark, Salt lake sector V.

Campus Placement:

Till 31st March, 2018, 45 students of the department have been offered jobs in different companies namely Infosys, Cognizant, ITC Infotech, Nomura Research Institute and others.

Committee/Chair in International Conference

- Dr. S. K. Pati acted as a Technical Committee and session chair in the *International Conference on Emerging Technologies in Data Mining and Information Security*, Data Mining, Machine Learning, IOT And Information Security, which was organized by School Of Information Technology (IEM Group), India, on 23-25 February, 2018, Kolkata.

- Dr. S. K. Pati acted as a Session Chair in the Technical Session "*Trends in Soft Computing and Pattern Recognition*", "*Soft Computing in Image processing*", and "*Intelligent Automation Using Optimization Techniques*" in *International Conference on Soft Computing in Data Analytics*, Soft Computing in Data Analytics, which was organized by SRI Sivani College of Engineering, India, on 10 and 11 March, 2018.

Publication Details

1. **S. K. Pati**[†], A. K. Das**, Bi-objective Genetic Algorithm with Rough Set Theory for Important Gene Selection in Disease Diagnosis. Multi-Objective Optimization: Evolutionary to Hybrid Framework, Springer Nature Singapore Pte. Ltd., January 18, 2017. (Accepted).
2. A. Sarkar, A. Biswas, **M. Dutt**[†], S. Mondal, Finding Shortest Triangular Path and its Family inside a Digital Object, Fundamenta Informatica, Vol. 160, pp. 1-28, IOS Press, 2018.
3. **M. Dutt**[†], E. Andres, G. L. Skapin, Characterization and generation of straight line segments on triangular cell grid, Pattern Recognition Letters, Vol. 103,(1), pp. 68-74, Elsevier, 2018.
4. A. Chatteerjee, T. Bera, **S. K. Pati**[†], A. K. Das, A Data hiding scheme with digital authentication using parity checkers, International Conference on Soft Computing in Data Analytics, SCDA-2018.
5. **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, Srikakulam, Andhra Pradesh, India, March, 2018.
6. **A. Halder**[†], **A. Maity**[*] and **A. Das**[*], Medical Image Segmentation using GA based Modified Spatial FCM Clustering. 2nd International Conference on Integrated Intelligent Computing, Communication and Security, Springer, January 2018.
7. **A. Halder**[†], **S. Dutta**[*], A. Sarkar and **P. Bhattacharya**[*], Contrast Enhancement Using Savitzky Golay Filter Convolution Coefficients, 5th International Conference on Emerging Applications of Information Technology, IEEE Xplore, January, 2018.
8. **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, India, 2018.
9. **G. Yasmin**[†], **S. Dhara**[*], **R. Mahindar**[*], A. K. Das, Speaker identification from mixture of speech and non-speech audio signal, International Conference on Soft Computing in Data Analytics (SCDA), Springer, Srikakulam, Andhra Pradesh, India, 2018.
10. **O. Dobe**[*], A. Sarkar and **A. Halder**[†], Rough K-means and Morphological Operation based Brain Tumor Extraction, 2nd International Conference on Integrated Intelligent Computing, Communication and Security, Springer, January 2018.
11. **S. K. Pati**[†], A. K. Das, Computational Intelligence in Microarray Data Analysis, International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS-2018, Doctoral Symposium.
12. **S. K. Pati**[†], S. Mallick, A. Chakraborty, Informative Gene Selection using Clustering and Gene Ontology, International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS-2018.

[†]**Publications by college faculty**
[*]**Publications by college students under the guidance of college faculty**