



St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

NEWSLETTER

TECH TIMES

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DEPARTMENT

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.

IT

Editors:

1. Smt. Sanchita Saha Ray,
Assistant Professor,
IT

2. Ms. Subhasree Basu,
Assistant Professor,
IT

3. Mr. Ananway Ghatak,
B. Tech, 3rd Year,
IT, student

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

Keeping abreast with the rapid paced advancement of communication technology, state-of-the-art web and cloud-based applications are becoming more telling today than these were in recent yesteryears. A large number of mobile app developers are using cloud-based apps, thereby reducing the burden on the device memory and at the same time enhancing sharing speeds. While storage and speed benefits meted out to the users, particularly the young generation, have been enormous, one of the greatest concerns of today is compromise to security of confidential data. While many of the apps are fundamentally flawed, making it possible for hackers to steal critical data, hijack user inputs or deny service entirely, there are quite a number of mala fide apps that are designed to sniff into the user data. The spread of these deceitful apps through social media and gaming apps amply demonstrate that the principal target of these apps has been the younger generation. In practice, there are a large number of common security threats to web-based & cloud-based apps, such as Timid testing, Denial of Service (DoS) attack, SQL injection, cross-site scripting (XSS) attacks, Hijacking sessions etc.

For Further Information

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DEPARTMENTAL MILESTONES

Best Performance of Final Year Students in University Examination:

- **Diksha Saha** (2019 passed out), SGPA 9.46, DGPA 9.29

Best Performance in End Semester University Examination:

- **Arijit Santra**, 3rd Year, 2nd Semester, SGPA 9.12, YGPA 9.16
- **Priya Das**, 2nd year, 2nd Semester, SGPA 9.19, YGPA 9.16
- **Srishti Ganguly**, 1st year, 2nd Semester, SGPA 8.85, YGPA 9.17



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Performance in NPTEL:

- **Spandan Das Barman** of *1st year* is among *Top 1% of certified candidates* and have acquired **ELITE+GOLD** in the course **Body Language: Key to Professional Success**.
- **Swairik Dey, Megha Dutta**, of *1st year* are among *Top 1% of certified candidates* and have acquired **ELITE+GOLD**, **Shreyansh Sahu, Anshika Agarwal, Tannistha Muhuri** of *1st year* are among *Top 5% of certified candidates* and have acquired **ELITE+SILVER** in the course **Technical English for Engineers**.
- **Anirudha Parui, Snehel Dutta, Subhashree Mitra, Lakha Rahman, Naman Parmar, Jaydip Bose, Pragya Joshi, Pratik Kumar Sinha** of *1st year* and **Barnita Roy Choudhury** of *2nd year*, have acquired **ELITE+SILVER** in the course **Technical English for Engineers**.
- **Mrinmoy Adhikary (3rd year) & Barnita Roy Choudhury (2nd year)** have acquired **ELITE+SILVER** in the course **Programming, Data Structures And Algorithms Using Python**.

Students' Performance in Sports:

- Interdepartmental football match held between 23rd September - 30th September 2019. IT department played the finals against EE department and was **runners up**.

Students' Performance in Extra-curricular Activities (Outside STCET):

- **Avik Bose** of *2nd year*, secured **2nd position** in **ROBOTICS** module of the event Escalade organized during Techniche 2019 at IIT Guwahati held between 29th August – 1st September 2019.

PUBLICATION DETAILS

Conference Publication:

1. S. Ghosh, S. Dasgupta* and **S. Saha Ray**⁺, "A Comparison-free Hardware Sorting Engine," *2019 IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, Miami, FL, USA, 2019, pp. 586-591. doi: 10.1109/ISVLSI.2019.00110.
2. **A. Ghosal**⁺, Pathak, C., Singh, P., & Dutta, S, "Voice-Based Gender Identification Using Co-occurrence-Based Features", Voice-Based Gender Identification Using Co-occurrence-Based Features. *In Computational Intelligence in Pattern Recognition* (pp. 947-956). Springer, Singapore.
3. **A. Ghosal**⁺, S. Dutta, & D. Banerjee, "Classification of Speech and Song Using Co-occurrence-Based Approach", *In Computational Intelligence in Pattern Recognition*, pp. 117-125, Springer, Singapore.
4. **R. Ghoshal**, A. Banerjee, "SVM and MLP based Segmentation and Recognition of Text from Scene Images through an Effective Binarization Scheme", *A. In Computational Intelligence in Pattern Recognition*, pp. 237-246, Springer, Singapore.
5. **S. Basu**, M. Kule, "On the Synthesis of Unate Symmetric Function Using Memristor-Based Nano-Crossbar Circuit", *In Computational Intelligence in Pattern Recognition*, pp. 1-8. Springer, Singapore.

+ : IT Faculty, * : Student