



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

# Bits and Bytes

**Newsletter**

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**Department**

**CSE**

## **Editors:**

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## **Vision of the Department**

To continually improve upon its teaching-learning process and research with a goal to develop technical manpower with sound academic backgrounds, who will respond to challenges and changes faced by dynamic scenario of 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 for inculcating advancement of technology in Computer Science and Engineering with social and environmental awareness.

## **Program Educational Objective of Computer Science and Engineering**

- To educate students to solve the problems for analysis and implementation of algorithms leading to optimal solutions fulfilling the dynamic requirement of industry and society.
- To inculcate into students the understanding of Computer Science and Engineering for grooming would be practicing engineers with sound knowledge of logic and design.
- To execute research in emerging fields in computer science and engineering so as to face the challenges of global competitiveness.

## **Departmental Milestones**

### **Student's Achievements:**

- **Ananya Laha**, 3<sup>rd</sup> year has secured First position in State Level Heartfulness Essay Competition which was held on 5<sup>th</sup> February, 2021. She also secured first position in the Art competition organised by Art and Culture Cell, STCET.
- **Arya Bhattacharjee**, 3<sup>rd</sup> year was in the top 2% of the NPTEL course The joy of computing using Python. He also secured Gold and ELITE certificate in this course.
- **Aditya Agarwal**, 2<sup>nd</sup> year was in the top 5% of the NPTEL course Programming Data Structures and Algorithms Using Python. He also secured Gold and ELITE certificate in this course. He scored AIR 37 in Elevate by Codechef organised by Unacademy.
- **Arinjay Bhowmick**, 1<sup>st</sup> year was the topper (1%) and secured Gold certificate in the NPTEL course Data Mining.
- **Arpan Basu**, 1<sup>st</sup> year secured Silver and ELITE certificate in the NPTEL course Speaking Effectively.
- **Subhajit Roy**, 1<sup>st</sup> year secured Silver and ELITE certificate in the NPTEL course The Joy of Computing using Python.



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## Best Paper Awards

- **Aousnik Gupta**, 3<sup>rd</sup> year has won the Best Paper Award in the 3<sup>rd</sup> International Conference on Computational Intelligence in Pattern Recognition (ICCIPR2021).
- **Rudrajit Choudhuri**, 3<sup>rd</sup> year has won the Best Paper Award in the 2<sup>nd</sup> International Conference on Advanced Computing Applications (ICACA2021).



## Faculty Participation in Online Course

- **Dr. Mousumi Dutt & Ms. Ghazaala Yasmin** have successfully completed 5-days (19<sup>th</sup> April – 23<sup>rd</sup> April, 2021) online FDP on *Inculcating Universal Human Values in Education* organized by AICTE.

## Publication Details

- Ghazaala Yasmin<sup>†</sup>, Sujit Chowdhury, Janmenjoy Nayak, Priyanka Das, Asit Kumar Das, “Key moment extraction for designing an agglomerative clustering algorithm-based video summarization framework.” *Neural Computing and Applications* (2021): 1-22.
- Rudrajit Choudhuri\* and Amit Paul<sup>†</sup>, “Multi Class Image Classification for Detection Of Diseases Using Chest X Ray Images”, 2021 8<sup>th</sup> International Conference on Computing for Sustainable Global Development (INDIACom), IEEE, 2021, pp. 769-773, doi: 10.1109/INDIACom51348.2021.00137.
- Amiya Halder<sup>†</sup> and Rudrajit Choudhuri\*, “Impulse Noise Removal Algorithm using Modified Adaptive Distance Related Weighted Mean Filter” *Computational Intelligence in Pattern Recognition*, Springer, pp. 235-245, 2021.
- Amiya Halder<sup>†</sup>, Rudrajit Choudhuri\*, “High Density Salt-and-pepper Noise Removal Algorithm using Statistical Approach”, *International Conference on Advanced Computing*, Springer, pp. 563-573, 2021.
- Amiya Halder<sup>†</sup>, Apurba Sarkar, Automatic Detection of Tumor Cell in Brain MRI Using Rough-Fuzzy Feature Selection with Support Vector Machine and Morphological Operation, *Advanced Machine Learning Approaches in Cancer Prognosis*, pp. 221-246, Springer, 2021.

<sup>†</sup> Publications by college faculty

\* Publications by college students under the guidance of college faculty