



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

NEWSLETTER

## BITS AND BYTES

VOLUME: III, EDITION: IV, JULY 27, 2018

DEPARTMENT

### 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.

CSE

### 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

#### Editors:

1. Dr. Mousumi Dutt,  
Associate Professor

2. Dr. Amit Paul,  
Assistant Professor

3. Ms. Sanghamitra  
De Assistant Professor

4. Ms. Ghazaala Yasmin  
Assistant Professor

5. Ms. Aishwarya Murmu,  
B. Tech, 4<sup>th</sup> Year

For  
Further Information  
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For Feedback  
Contact:

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#### Best Performance in NPTEL:

- Aparajita Das, 2nd Year, Topper of 1% in this course on Social Networks
- Kasturi Saha, 3rd Year, Topper of 1% in this course on Data Science for Engineers and Topper of 2% in this course on Programming, Data Structures and Algorithms using Python
- Debarshi Chaudhuri, 1st Year, Tapashi Dutta, 2nd Year, Topper of 5% in this course on Programming, Data Structures and Algorithms using C
- Rohan Singh, 2nd Year, Rahul Kumar Singh, 3rd Year, Shreya Sil, 3rd Year, Sayak Bhattacharya, 4th Year, Topper of 5% in this course on Programming, Data Structures and Algorithms using Python
- Abhilash Misra, 3rd Year, Ayan Saha, 3rd Year, Topper of 5% in this course on Introduction to Modern Application Development
- Arnab Sen, 3rd Year, Kasturi Saha, 3rd Year, Topper of 5% in this course on Database Management System

#### Events:

- Guest Lecture on Energy Conservation organized by the Department of Computer Science and Engineering on March 14, 2018  
**Speakers:** Mr. Debashis Bhattacharyya, Indian Oil Corp., Kolkata
- Workshop on Digital Signal Processing and its Applications organized by the Department of Computer Science and Engineering from June 11-13, 2018  
**Speakers:** Dr. Bhabatosh Chanda, Professor, Indian Statistical Institute, Kolkata  
Dr. Santanu Chattopadhyay, Professor, Electronics & Electrical Communication Engineering, IIT, Kharagpur  
Guest Lecture on Feature Selection for Classification Analysis organized by the Department of Computer Science and Engineering on June 30, 2018.  
**Speaker:** Dr. Asit Kumar Das, Department of Computer Science and Technology, Indian Institute of Engineering Science and technology, Shibpur, Howrah

#### Students' Achievements:

- Swarnabha Das 3<sup>rd</sup> Year, Best Techfest Folk Studio 2018 (First Prize), 14<sup>th</sup> April 2018.
- Afridi Kayal 1<sup>st</sup> Year, First Prize in Tech Fest Innovatia, 14<sup>th</sup> April 2018.



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## Conference Participation:

Debasmita Dutta, Arisha Roy, and Pratyusha Bhattacharya, presented the paper “Image Segmentation for Detecting Fibrosis from Rat Liver Images” and participated in 7<sup>th</sup> IEEE International Conference on “Communication and Signal Processing”, Adhiparasakthi Engg. College, Melmaruvathur, Tamil Nadu, India, April 3-5, 2018.

## Industrial Training:

- Summer Training program on Full-stack web development essentials conducted from 18-06-2018 to 29-06-2018 for Fourth year CSE students by Vikas Gupta & Karthik C R of XFactor Digital.

## Short Term Training Program:

- Dr. Mousumi Dutt, Fundamentals of Data Structures and Algorithms, in National Institute of Technical Teachers' Training and Research, Kolkata, India, June 4-15, 2018.
- Mr. Amiya Halder, Fundamentals of Digital Image & Video Processing with 3D application, at IIT-Kharagpur, India, May 15-19, 2018.
- Dr. Amit Paul, Microprocessor and Embedded system from National Institute of Technical Teachers' Training and Research, Kolkata, India, June 4-8, 2018.
- Mr. Debashis Chakraborty, Web Design using PHP and MySQL from National Institute of Technical Teachers' Training and Research, Kolkata, India, May 14-25 2018.
- Dr. Soumen Kumar Pati, Fundamental of Data Structure and Algorithms from National Institute of Technical Teachers' Training and Research, Kolkata, India, June 4-15 2018.
- Mr. Samrat Sarkar, Microprocessor and Embedded system from National Institute of Technical Teachers' Training and Research, Kolkata, India, June 4-8 2018.
- Mr. Subhankar Mallick, Mathematical Logic from National Institute of Technical Teachers' Training and Research, Kolkata, India, May 7-11 2018.
- Ms. Ghazaala Yasmin, Numerical and Statistical Methods using S/W Tools from National Institute of Technical Teachers' Training and Research, Kolkata, India, May 28 - June 1, 2018.
- Ms. Sanghamitra De, Numerical and Statistical Methods using S/W Tools from National Institute of Technical Teachers' Training and Research, Kolkata, India, May 28 - June 1, 2018.

## NPTEL Mentorship:

- Dr. Mousumi Dutt has done mentorship successfully in Cryptography and Network Security
- Mr. Debasish Chakraborty has done mentorship successfully in Programming Data Structures and Algorithms using Python
- Dr. Amit Paul has done mentorship successfully in Programming Data Structures and Algorithms using Python

## PUBLICATION DETAILS

1. A. Sarkar, A. Biswas, **M. Dutt**<sup>†</sup>, and S. Mondal, Finding Shortest Triangular Path and its Family inside a Digital Object, Fundamenta Informaticae, IOS Press, 162, 73-100 (2018) (SCI Indexed) Impact Factor: 0.687.
2. **B. G. Banik**<sup>†</sup> and Samir Bandyopadhyay, Blind Key based Attack Resistant Audio Steganography using Cocktail Party effect, Security and Communication Networks.
3. **A. Halder**<sup>†</sup> and **S. Dutta**<sup>\*</sup>, “Automatic lip extraction using DHT and Active Contour”, International Symposium on Signal and Image Processing (ISSIP 2017), Springer, November, 2017.
4. **G. Yasmin**<sup>†</sup>, A K Das. “Textural and acoustic feature Based Speech and Non speech discrimination in audio”, International Symposium on Signal and Image Processing (ISSIP), Springer, India, 2017.
5. **S. Sengupta**<sup>\*</sup>, **G. Yasmin**<sup>†</sup>, A. Ghosal, “Speaker Recognition Using Occurrence Pattern of Speech Signal”, International Symposium on Signal and Image Processing (ISSIP), Springer, Kolkata, West Bengal, India, 2017.

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

<sup>\*</sup>Publications by college students under the guidance of college faculty