



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

NEWSLETTER

DEPARTMENT  
**IT**

## 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.

#### Editors:

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IT

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### 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.

## Departmental Milestones

### I. Students' Performance in MAKAUT

- **Priya Das**, 4<sup>th</sup> Year, 2<sup>nd</sup> Semester, DGPA: 9.51
- **Rishkesh Mishra**, 3<sup>rd</sup> Year, 2<sup>nd</sup> Semester, SGPA: 9.91
- **AnanyaSikdar**, 2<sup>nd</sup> Year, 2<sup>nd</sup> Semester, SGPA: 9.95
- **Payel Saha**, 1<sup>st</sup> Year, 2<sup>nd</sup> Semester, SGPA: 9.71

### II. Enrollment in NPTEL Courses

Students have enrolled in **59 courses** being offered by **Coursera, NPTEL, UdeMy** as MOOCS for B. Tech. (Hons.).

- A total of **19 courses** in **Coursera**, a total of **15 courses** in **NPTEL** and a total of **25 courses** in **UdeMy**.
- In NPTEL (Elite + Silver: **2**, Elite + Gold: **3**, Topper: **4**)

### III. Workshop Organized

- The department has arranged a **Summer Workshop** on "**Machine Learning and Data Analytics**" from **September 02 -04, 2021**, The workshop was aimed at addressing undergraduate students going from 2<sup>nd</sup> to 3<sup>rd</sup> year of the departments of CSE and IT, who will be benefited by attending the lecture sessions and hands-on practice sessions.

**External Speakers:** Prof. (Dr.) Elizabeth Behrman, Professor, **Wichita State University, Kansas, USA**, on "**Machine Learning for Universal Quantum Computation**" and Prof. (Dr.) Jaya Sil, Professor, Department of CST, **IEST Shibpur, India**, on "**Shallow to Deep Learning**".

**Internal Speakers:** Dr. Ranjit Ghoshal, Dept. of IT, on "**Introduction to Machine Learning and its Applications**", Ms. Sanghamitra De, Dept. of CSE, on "**Basics of Artificial Neural Network**" and Ms. Ghazaala Yasmin, Dept. of CSE, on "**Application of Deep Learning to Multimedia Data - A Leading Step Towards Machine Learning**". Ms. Aditi Bal and Dr. Arijit Ghosal of Dept. of IT, assisted in the hands-on practice sessions.



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## IV. Students' Achievements



**Sayantan Mondal**, 2<sup>nd</sup> year student received **bronze medal (3<sup>rd</sup> prize)** in the state kickboxing tournament 60kg category held from November 13 - 14, 2021 at Woodridge International School, Siliguri.

## V. Online courses, FDPs, Seminar, Workshop attended by Faculty Members:

- **Ms. Subhashree Basu** has attended
  - ✚ FDP on **"Faculty Development Program on Quantum Computing"**, organized by ATAL Academy Online Elementary FDP from July 19 – 23, 2021
  - ✚ STTP on **"How to Write Thesis and Research Paper"**, organized by NITTTR, Kolkata from August 02 – 06, 2021.
- **Smt. Aditi Bal** has attended a two-week online FDP, **"Embedded Design and Development using Free / Open Source Tools"**, organized by ATAL (CDAC) from August 09 – 13, 2021.
- **Dr. Arindam Chakravorty** has attended an FDP on **"Problem Solving through Programming in C"**, organized by the NPTEL (July - October 2021).
- **Dr. Nilanjana Karmakar** has attended an FDP on **"Topics in Computing: Quantum, Microfluidics, Memristors"**, organized by the JIS University from August 09 – 13, 2021.
- **Dr. Ranjit Ghosh** has attended
  - ✚ FDP on **"Research Methodology and Project Writing"**, organized by Rama Devi Women University, Bhubaneswar, Odisha, from July 07 – 11, 2021
  - ✚ FDP on **"Effective Teaching and Learning"**, organized by STCET, Kolkata from September 06 – 08, 2021.
- **Dr. Arijit Ghosal** has attended
  - ✚ **"Online Orientation Training Programme for Mentors"**, organized by NITTTR, Chennai from July 26-30, 2021.
  - ✚ **"Online FDP on "Artificial Intelligence impacts on Telemedicine"**, organized by Gokaraju Rangaraju Institute of Engineering and Technology (ATAL FDP by AICTE (online) from August 02- 06, 2021.
  - ✚ Online FDP on **"Introduction to Speech Processing and its Applications using AI-ML (IS-PA)"**, organized by CDAC, Kolkata (ATAL FDP by AICTE) from October 25-29, 2021.
  - ✚ **"Intellectual Property Rights and Competition Law"**, organized by NPTEL from July - September, 2021.
- **Ms. Ranjita Chowdhury** attended a Online FDP on **"Combating COVID-19: It's time to Respond with Resilience"**, organized by NITTTR, Raipur from June 30- July 4, 2021.

## Journal Publication Details

**S. S. Ray\***, D. Adak and S. Ghosh, **"Worst-Case  $O(N)$  Comparison-free Hardware Sorting Engine"**, in **IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems**, doi: 10.1109/TCAD.2021.3131554.

\* Faculty

## International Patent

Dr. Arijit Ghosal and Ms. Ranjita Chowdhury have filed an **Australian patent** on **"An Emotion Detection System and Method Using Pattern Recognition"**, (Patent number: 2021106885), 2021.