St. Thomas' College of Engineering and Technology

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Newsletter

Department

IT

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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.

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

Ever thought that your pet will be able to place order for her food to the supermarket? Or, guess how you would like your car to be fuelled automatically without your intervention! This is no longer a farfetched dream, rather exactly what the new decade is trying to achieve. Until yesterday only computers, smart phones and human beings were connected over the internet. Now it is time that any**thing** and every**thing** is going to be a part of the internet. That will make the internet a true versatile network of all possible communicating objects. The next decade is going to be the decade of Internet of Things (IoT). Definitions of IoT available on the net says, *"The Internet of things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction."* Without being so technical in its definition, an easier way will be to say *IoT is an interconnection of everything that can send or receive information or can do both.* IoT makes communication between these **things** possible. The advancement of a number of recent technologies viz. *Machine Learning, Artificial Intelligence, Real time Analytics, Embedded Systems, Commodity Sensors,* etc. and their convergence have made the IoT dream come true. Kevin Ashton of Procter & Gamble is given the credit of coining the term *Internet of Things* in the year 1999, although he used the term *Internet for Things*.

Dr. Arindam Chakravorty
Assistant Professor, IT
St. Thomas' College of Engineering and Technology

Departmental Milestones

I. Students' Performance in NPTEL:

- **Total Certified- 103, Topper-8, Gold Medal – 4, Silver Medal - 42 , Elite - 94**

List of Toppers

1st Year - Spandan Das Barman (**Body language: Key to professional success**), Swairik Dey, Megha Dutta and Shreyansh Sahu (**Technical English for Engineers**), Dhiraj Ojha (**Ethics in Engineering Practice**)

2nd Year - Debargha Ghosh (**Programming in Java, An introduction to programming through C++**)

3rd Year - Sabyasachi Das (**Programming in Java**)

List of Gold Medallists

1st Year - Spandan Das Barman (**Body language: Key to professional success**), Swairik Dey (**Technical English for Engineers**)

2nd Year - Debargha Ghosh (**Programming in Java**)

3rd Year - Sabyasachi Das (**Programming in Java**)

II.   Faculty Performance in NPTEL

Total Certified - **6 (All Elites), Topper-1, Gold Medal – 1, Silver Medal - 4**

Topper -   Arindam Chakravorty (**Programming in Java**)

Gold Medallist - Arindam Chakravorty (**Programming in Java**)

Silver Medallist - Kalyan Das (**Ethical Hacking, E-Business**), Subhashree Basu (**Cloud Computing**), Arijit Ghosal (**Introduction to Research**)

Elite -   Nilanjana Karmakar (**Positive Psychology**)

III.   Faculty Contribution to NPTEL Courses

Arindam Chakravorty has translated to Bengali the NPTEL lectures on *Introduction to Operating System* offered by IIT, Madras.

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

Avik Bose of *2nd year*, secured **1st position** in **Manual event** COUNTER ACT and secured **2nd position** in **Autonomous event,** National Students Space Challenge 2019, **IIT Kharagpur**, Technical Festival, Kharagpur, West Bengal, 1st - 3rd November 2019.

PUBLICATION DETAILS

Conference Publication:

1. S. Mondal, **N. Karmakar**[+], and A. Biswas, Identification of Articulated Components in 3D Digital Objects Using Curve Skeleton, International Conference on Pattern Recognition and Machine Intelligence: PReMI'19, December 17-20, 2019, Tezpur, India.

+: IT Faculty, *: Student