St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

DARPAN

(The Image of achievements)

VOLUME:III, EDITION:III, 27TH APRIL 2018

Vision of ECE Department:

To build a strong teaching and research environment to cater to the manpower needs in Industrial and Academic domains of the rapidly growing Electronics and Communication Engineering.

Mission of ECE Department:

Editors:
1SudiptaDutta
Assistant
Professor,
ECE

2. Prashnatita
Pal Assistant
Professor,
ECE

3.Jeet Sarkar
4th year
ECE,

❖   To produce certified industry-ready professional in Electronics and Communication Engineering, though innovative educational programs incorporating laboratory practices and project based teaching-learning processes, in a modern environment.

❖   To create knowledge base of advanced technologies through research in the area of Electronics and Communication, for competitive and sustainable development of the country.

❖   To groom the department as a learning centre to inculcate advancement of technology in Electronics and Communication Engineering with social values and environmental awareness.

RECENT TECHNOLOGY TREND

Smart waste management is an idea where we can control many problems, which disturbs the society in pollution and diseases. The Smart waste management is compatible mainly with concept of smart cities. Smart cities are a natural evolution of the recent wave of technology, allowing both to offer better services to citizens and also to save costs. This can be implemented using **Internet of Things (IoT) embedded with different sensors. IoT** can't take out trash or garbage, but it can make those processes much more efficient. Smart Dustbins embedded with sensors can prevent the accumulation of the garbage along the roadside largely thereby controlling the widespread of many diseases. It can prevent pollution and prevent the consumption of the spread-out garbage by the street animals

Dr.Prasun Chowdhury
Head of the Department,
Department of Electronics and Communication Engineering,
St. Thomas' College of Engineering and Technology.

Departmental Milestones

- Udita Bhattacherjee certified best paper in technical poster session at **IEEE iAIM2017** conducted by IEEE Bangalore section.

Best Performance in MAKAUT:

- Trisha Pyne, 4th Year, 7th Semester, SGPA: 9.59
- Swapnanil Gupta, 3rd Year, 5th Semester, SGPA: 9.62
- DebnandanBhattacharjee,,2nd Year, 3rd Semester, SGPA: 9.38
- RounakBhaduri, 1st Year, 1st Semester,SGPA:9.3

Ph.D Awarded:

Mr. Dipankar Kundu , received his PhD degree in November 2017 from Calcutta University.His research field is Nano Science and Nano Technology.

Industrial Training:

Industrial Training for final year students of the department was arranged in different industry like as South Eastern Railway, NIIT, GE motors etc.

Co-curricular event /activates attended by student:

1.Ishani Dasgupta 4th year ECE awarded 1st prize in two event (throwing the cricket ball, hitting the wicket) at annual college sports.

2. Subhadip Ghosh, Kinjal Chowdhury Swapnanil Gupta, (3rd ECE) are participated Student Research(Design of a driverless car) Convention "Anveshan at MAKAUT University campus, Salt Lake, Kolkata on 6th and 7th February, 2018

3..KumarSreyam Nandi, ArghyaSadhukhan, Sanandaghosh(4th year) are participated Student Research(Multilayered Security System Using IoT) Convention "Anveshan at MAKAUT University campus, Salt Lake, Kolkata on 6th and 7th February, 2018

Publication Details

1. **R. N. Dutta**, "Image Inpainting using Geometric Transformations for Digital Circuit Images" ; 9th International Conference on Advances in Pattern recognition (ICAPR-2017), 27-30 December 2017 at ISI , Bangalore , India.
2. **S. Ghosh**, K. Koley, C. K. Sarkar, "Deep insight into linearity and NQS parameters of tunnel FET with emphasis on lateral straggle, "IET Micro & Nano Letters, vol.13, No.1, pp 35-40, 2017. 1383-7621.

3. Bappaditya Jana1, **Prashnatita Pal**2, Saptarshi Mitra1, Jayanta Poray1
   "Implementation of a secure Cloud computing authentication using Elliptic Curve Cryptography " accepted and presented at IDEA2K17 at Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV) (A State Technical University),Bhopal, MP on 28-29 Oct 2017.

4. Saptarshi Mitra1 ,Bappaditya Jana1 , Supratim Bhattacharya1 , **Prashnatita Pal**2 , Jayanta Poray1" Quantum Cryptography: Overview, Security Issues and Future Challenges " paper accepted and presented **at** IEEE Optronix 2017, 4th International conference at the University of Engineering & Management (UEM) on November 2, 2017.

5. Udita Bhattacherjee, **Prashnatit Pal** and Amiya Kumar Mallick "Analysis and Design of A Novel Waveguide-to Microstrip Transition Structure at X-Band on HFSS Platform" accepted and presented IEEE iAIM2017 , BANGALORE ON 24-25 NOV 2017.