



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

## DARPAN

(THE IMAGE OF ACHIEVEMENTS)

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### NEWSLETTER

#### 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:

- ❖ To produce certified industry-ready professional in Electronics and Communication Engineering, through 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

Today multimedia has wide and profound applications in business, sales and marketing, education, courseware, interactive movies, video-on-demand, satellite television, World Wide Web, electronic newspapers and magazines, video conferencing and film making, presentation, foreign language learning, animated advertisements and so on. There is an increasing trend of multimedia communication which is a new and advanced way of communication of multimedia contents in the form of text, images, graphics, audio and video. Multimedia communication is, however, bandwidth hungry in the sense that it requires more spectrum and transmission resources. Communication of video requires a large bandwidth. It is well-known that bandwidth is a costly resource and should be utilized with utmost care and frugality. The requirement of this large bandwidth for multimedia communication is a challenging problem. Cognitive radio network (CRN) can offer realistic solution to this problem.

#### Editors:

- 1 Sudipta Dutta  
Assistant Professor,
2. Prashnatita Pal  
Assistant Professor,
3. Rounak Roy 3rd  
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5. Srijita Sanyal  
2<sup>nd</sup> Year ECE
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## Departmental Milestones

**Performance in NPTEL on 28<sup>th</sup> Oct, 2018 :**

No .of Students Appeared: 63

No. Students successfully completed: **57**

No. of Elite Students: 36

No. of Elite plus Gold: 1

**PIULI BAGCHI** Awarded NPTEL Exam topper in “**Technical English For Engineers**”.

### **Publication:**

**J. Acharjee, A.Singh, K. Mandal, and S.K Mandal, “Defected Ground Structure toward Improved Impedance Matching and Low Cross Polarization of Microstrip Patch Antenna,”** *Radio Engineering, December 2018. [I.F: 1.048; Indexing: SCI Expanded]*

**J. Acharjee, K. Mandal, and S.K Mandal, “A tri Band Meandered Shaped Patch Antenna for WLAN and Radio Navigation Appliations,”** *2018 IEEE Indian Conference on Antenna and Propagation (InCAP), December 16-19, 2018.*