St. Thomas' College of Engineering and Technology
4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

DEPARTMENT

ECE

Vision of THE 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 THE Department

❖ 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.

Editors:
1 Sudipta Dutta
Assistant Professor,

2. Prashnatita Pal
Assistant Professor,

3. Rounak Roy 3rd
Year ECE

4. Pritam Mukherjee,
2nd Year ECE

5. Srijita Sanyal
2nd Year ECE

6. Diptesh Sarkar
2nd Year ECE

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Recent Technology Trend

In India, the most widely used public transport system is the ready-to-go- bus facility. However, this 'ready-to-go' facility is not as smooth as the need of the hour, particularly in today's congested metropolitan cities. Standing in long queues at bus stands, quarrelling with conductors for trifle matters make the journey uncomfortable for the passengers.

Public Transport system (PTS) remains the major source of income in most of the developing countries like India. However, PTS now faces severe malfunctions and various security problems. First, there is a lot of confusion between the passengers regarding fares which lead to quarrels and chaos. The user-friendly automated ticketing and destination announcement system suggested is not only automatically deduct the passenger's fare according to the distance travelled but also notify the passengers about the next stoppage en-route. This is possible by use of RFID cards and GPS technology that can be used to make the transaction and travelling very precise. A user-friendly app can be developed on Android platform to make the whole journey of a passenger enjoyable and hassle-free. This system eliminates the usage of paper-tickets. In the present ticketing system, the conductors manually issue tickets and the fare is calculated mentally before issuing the tickets. The details of the destination bus stop and source bus stop are not mentioned on the tickets. Moreover, after the passenger reaches the destination, the ticket is of no use, and is thrown away. This causes loss to economy. The problem can be eliminated with the use of RFID based smart cards, the passenger can take a cashless ride. The passengers carrying smart cards can have access to any bus service in the city and the smart cards are reusable over a particular time period, for a month or a year. So, a much-secured journey is ensured for the commuter carrying such cards.

Dr. Prasun Chowdhury
Head of the Department,
Department of Electronics and Communication Engineering

Departmental Milestones

Best Performance in MAKAUT:

- Rittika Sen , 4th Year, 8th Semester, DGPA: 9.31
- Swapnanil Gupta, 3rd Year, 6th Semester, YGPA: 9.71
- Rounak Roy , 2nd Year, 4th Semester, YGPA: 9.40
- Pritam Mukherjee, 1st year, 2nd Semester, YGPA: 9.13

Publication:

   Prasun Chowdhury, Rittika Sen, Dhruba Ray, Purushottam Roy and Souradeep Sarkar, "**Garbage Monitoring and Disposal System for Smart City using IoT"** *proceedings of IEEE Second International Conference on Green Computing and Internet of Things*, 16th -18th August 2018, Bangalore.

Innovations:

Prasun Chowdhury (HOD, ECE) & Sagnik Ghosh, 3rd year ECE get appreciation for fostering and ecosystem bridging government, Industry & Academia by submitting a project report on **Google Controlled Car** in **"*India Innovation Challenge Design Contest*"**, jointly organized by DST (Govt. of India) & Texas Instruments on 22nd September 2018.