



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

## DARPAN

(THE IMAGE OF ACHIEVEMENTS)

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### Vision of the Department:

#### NEWSLETTER

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.

#### DEPARTMENT

### Mission of the Department:

#### ECE

❖ 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.

#### 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  
2<sup>nd</sup> Year ECE

6. Diptesh Sarkar  
2<sup>nd</sup> Year ECE

## RECENT TECHNOLOGY TREND

The invention of transistor in 1947 and silicon-based semiconductor technology have started the era of Electronics and after seven decades, we, all are surrounded by different electronic devices. We are relying more on them in our everyday lives. The performance of silicon-based devices has improved rapidly due to novel processing and patterning technologies and nanotechnology has allowed for both miniaturization and cost reduction. Although silicon remained the only option in electronics for several years, recent developments in material engineering and nanotechnology have introduced new pathways for electronics, as a result of which alternative trends are emerging. One such trend is 2-D electronics, interest in which field started with the discovery of graphene, a structural variant of carbon. The carbon atoms in graphene form a hexagonal two-dimensional lattice. This atom-thick layer has attracted attention due to its high electrical and thermal conductivity, mechanical flexibility and very high tensile strength. Graphene is the strongest material ever tested. Though graphene has started the 2D revolution in electronics, other materials, like silicene, phosphorene and stanene, which are allotropes of silicon, phosphorus and tin, respectively, have been found. They have similar honeycomb structures with different properties, resulting in different applications. All these materials have the potential to change electronics in terms of miniaturization, higher performance and cost reduction. Several companies in the world, including Samsung and Apple, are developing applications based on graphene.

For  
Further  
Information  
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**Dr. Dipankar Kundu**

**Assistant Prof.**

**Department of Electronics and Communication Engineering**

## Departmental Achievements

- IE(I) student Chapter Formation of **Electronics & Communication Engg.** Department in FEB, 2019.
- Seminar Organized on ‘**Electronics in Lighting**’ by **Mr. Kamal Sethia**, “*indian society of lighting engineers*”, **Cosmos Engineering Industries Pvt Ltd.** On 15<sup>th</sup> FEB 2019. Under IE(I) Student Chapter.



## Departmental Milestones

**Three Members of NBA team, among them two NBA experts and NBA Chairman Visited Our Department in March , 2019.**

### Best Performance in MAKAUT

<b>Priyadarshini Chakraborty</b> , 4 <sup>th</sup> Year, 7 <sup>th</sup> Semester	SGPA : 9.37
<b>Debnandan Bhattacharyya</b> , 3 <sup>rd</sup> Year , 5 <sup>th</sup> Semester	SGPA : 9.62
<b>Siddhartha Maity</b> , 2 <sup>nd</sup> Year , 3 <sup>rd</sup> Semester ,	SGPA : 9.52
<b>Indrajit Dutta</b> , 1 <sup>st</sup> Year , 1 <sup>st</sup> Sem ,	SGPA : 9.09

### Student Achievement in Sports:

- **AKANGSHA MUKHERJEE** of 1<sup>st</sup> year student placed in 1<sup>st</sup> position in 100 METER RUN and LONG JUMP for girl's. Placed 2<sup>nd</sup> position in THROWING THE CRICKET BALL competition at college annual sports.
- **SAYAN MONDAL** of 1<sup>st</sup> year student placed 2<sup>nd</sup> position in 100 METER RUN for boy's also placed 3<sup>rd</sup> position in 200 METER RUN for boy's at college annual sports.
- **SAYAN MAITY** of 2<sup>nd</sup> year student placed 3<sup>rd</sup> position in LONG JUMP for boy's at college annual sports.
- **SAYAN MONDAL, NOIRRIT BANNERJEE, SAYAN MAITY, PRITAM DEB** of our student placed 2<sup>nd</sup> position in interdepartmental 400 METER RELAY RACE for BOY'S at college annual sports.
- Our Departmental students win interdepartmental BADMINTON TOURNAMENT under the Captainship of **DABAYAN RAY** and **SUBHRA NANDY**.
- Interdepartmental TABLE TENNIS TOURNAMENT win by our department students under the Captainship of **SUBHRA NANDY**.