



NEWSLETTER

## **DARPAN**

*(THE IMAGE OF ACHIEVEMENTS)*

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DEPARTMENT

## **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.

ECE

## **MISSION OF THE 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.

### **Editors:**

1 Sudipta Dutta  
Assistant Professor,

2. Prashnatita Pal  
Assistant Professor,

3. Rounak Roy  
4<sup>th</sup>, Year ECE

4. Pritam Mukherjee,  
3<sup>rd</sup> Year ECE

5. Srijita Sanyal  
3<sup>rd</sup> Year ECE

6. Diptesh Sarkar  
3<sup>rd</sup> Year ECE

## **RECENT TECHNOLOGY TREND**

Traditional technologies have the problems of reliability, security, privacy, communication failures, software and hardware complexity, high infrastructure costs, technical limitations etc. With the open of the scale-up commercial deployment of 5G network, more and more researchers and related organizations began to consider the next generation of mobile communication system. "Intelligent Connectivity", "Deep Connectivity", "Holographic Connectivity" and "Ubiquitous Connectivity", - these four keywords together constitute the 6G. Application of 6G technology not only limited to mobile communication but also applicable in other areas like Real time applications, natural calamities, space, defence, smart home, high data network services, Home automations etc. Researchers expecting rollout of 6G technologies will be around 2030.

**Dr. Prasun Chowdhury**  
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**For  
Further  
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# DEPARTMENTAL MILESTONE

## STUDENT ACHIEVEMENT

- Swapnil Gupta, awarded **GOLD Medal for holding top rank in Maulana Abul Kalam Azad University of West Bengal in A.Y.(2018-19)**

## PERFORMANCE IN NPTEL:

- ARITRA PAUL and OLIVIA SENGUPTA , 1<sup>st</sup> year ECE, are the **Topper of 5%** in the course “**The Joy of Computing using Python**” . They are awarded “**Elite+Gold**” certificate in November 2019.
- OLIVIA SENGUPTA and RITWIK SAHA, 1<sup>st</sup> year ECE, both are awarded “**Elite+Silver**” certificate in the course “**Ethics in Engineering Practice**” . By scoring **83** RITWIK SAHA become the **Topper of 1%** in this course in November 2019.
- DEEPANJANA SAHA **Topper of 5%** in the course “**Technical english for engineers**” and awarded “**Elite+Silver**” certificate in November 2019.
- Above all **25** students of our department are awarded “**Elite+Silver**” and **29** students awarded “**Elite**” certificate .

## PROJECT COMPETITION :

**SRESHTHA PRAMANICK** and **S.TARUN KUMAR** are shortlisted for “**Chhatra Vishwakarma Awards 2019**” for the project “**AUTOMATIC STREET LIGHTING SYSTEM USING ARDUINO**”

## FACULTY ACHIEVEMENT

**Best Poster presentation Awarded to Juin Acharjee** at 7th International Conference on Computers and Devices for Communication (**CODEC**), December 19-20, 2019, Institute of Radio Physics & Electronics, University of Calcutta.

## PH.D ENROLLMENT

- **Tanusree Dutta** at Institute of Radio Physics & Electronics, University of Calcutta, Kolkata, India,
- **Prashnatita Pal** joined as research scholar at NIT Patna, India .

## PUBLICATION DETAILS

- [1] **Juin Acharjee**, MihirKumbhakar, Kaushik Mandal, and Sujit Kumar Mandal, “A Compact Multiband Antenna for Mobile Handset Application,” *7th International Conference on Computers and Devices for Communication (CODEC)*, December 19-20, 2019, Institute of Radio Physics & Electronics, University of Calcutta. (Presented-Best poster winning)
- [2] **Juin Acharjee**, Ram Lakhan Kumar, Kaushik Mandal, and Sujit Kr. Mandal, “A Low Cross Polarized Multiband Multimode Planar Inverted F-Antenna Employing Defected Ground Structure,” *Radio Engineering*, vol. 28, pp. 663-670, December 2019. [DOI: 10.13164/re.2019.0663] [I.F-1.048, Indexing: SCI Expanded].
- [3] **Tanusree Dutta**, **Prasun Chowdhury**, Santanu Mondal, **Rabindranath Ghosh** “Design and Analysis of an Efficient Queue Scheduling Scheme for Heterogeneous Traffics in BWA Networks ”, *7<sup>th</sup> International Conference on Advance Computing, Networking and Informatics (ICACNI 2019)* in IIIT Kalyani,20-21<sup>st</sup> December,2019.[Accepted and presented]
- [4] **Ankush Chattopadhyay**, Prof. Chayanika Bose, Prof. Chandan K. Sarkar “**Performance and Circuit Analysis of Independent Gate FinFET**” *7th International Conference on Computers and Devices for Communication (CODEC)*, December 19-20, 2019, Institute of Radio Physics & Electronics, University of Calcutta. (Presented- poster)