

**TECH
COGNIZANCE**

Editor in Chief : **Mr. Supratim Roy**

Chief Patron : **Dr. Dipankar Sarkar**

*Department of Electronics and
Communication Engineering*

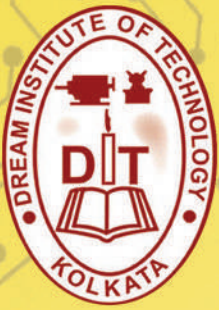
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DREAM INSTITUTE OF TECHNOLOGY

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PREFACE

Becoming an Editor – in – chief for a magazine like “TECH - COGNIGENCE” was not a very easy job to perform. It has changed the way of thinking for me, my beloved colleagues and my students as well. The all-in-one platform for the new age ideas was quiet a tough job to do. The path breaking ideas of Dr. Dipankar Sarkar, our beloved principal was very tough but crystal clear to us and after a great time spent upon this magazine, we decided the parameters for this magazine.

This won't be a simple technical magazine. We are constantly trying our level best that the project ideas published in this magazine, must have some market sell ability. Our principal sir always encourages us as well as our students to do something innovative by which the students can make themselves employers not employees of some big multinational companies. With the help of this magazine, we are trying to enhance the employability of our state as well as our nation. So, this magazine can't be a simple technology-based magazine.

So, we are trying and we will be trying our level best to bloom this magazine as this magazine must play a broader aspect than just a simple bunch of ideas.



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Tech Cognizance

Half-Yearly News Letter for Department of
ELECTRONICS & COMMUNICATION ENGINEERING



This Issue

- P.1– About the Department
- P.2– Mission, Vision & Objective
- P.3– Achievements of the department
- P.4– Publication of the department
- P.5– Our Alumni Achievements

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 2006. Since its inception, it has been dedicated to providing dynamic and quality engineers to the industry and society. In the existing scenario of rapid and sophisticated development in the field of Electronics and Communications and its allied fields, the Department's intent and focus has always been to produce globally competitive and socially sensitized engineering graduates and to bring out quality research in the emerging areas of Electronics and Communication Engineering. The Department is committed of providing quality and contemporary education in the domain of Electronics and Communication Engineering through the latest curriculum, state-of-the-art laboratory facilities, collaborative ventures with industries, and effective teaching-learning practices. Considering the latest trends in industry and research, the department has recently revised the UG curriculum to enhance the employability of students.

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MISSION, VISION & OBJECTIVE OF THE DEPARTMENT

MISSION

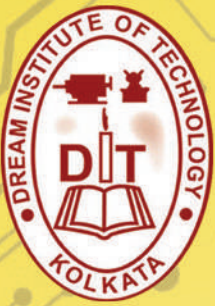
- To develop the fundamental knowledge of electronics through innovative student centric learning process.
- To unravel global industrial challenges through latest technological tools and knowledge.
- To evaluate skills through strategic collaborative learnings and R&D activities.
- To provide entrepreneur assistance to create vibrant manpower for the nation.
- To develop laboratories meeting state-of-art technologies.

VISION

- To impart international standard education to aftermath inventions and research in the domain of Electronics and communication.

PROGRAMME OBJECTIVES

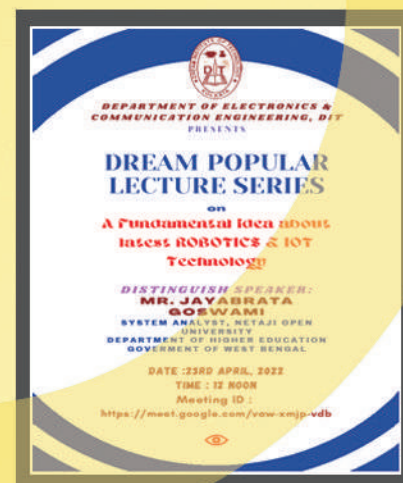
- Students will acquire knowledge to make them self-employable in Electronic Design, Telecom as well as IT sector and pursue higher studies in core and management sector. **(Preparation)**
- The core competency is in Device and Communication systems design and development that helps to meet ever changing industrial and societal demands. **(Core Competency)**
- Getting exposure in Data Science and computation, Machine Learning, AI, Mechatronics and Bio Electronics through collaborative learning. **(Breadth)**
- Students can engage themselves in research work, development of interpersonal skills and professional ethics (like obey safety norms & Maintain IEEE standard). **(Professionalism)**
- Students will inherit life-long learning attitude, adaptability, quality consciousness and punctuality which would facilitate them to get success in professional life. **(Attitudes)**



EVENTS ORGANIZED BY THE DEPARTMENT

‘Dream Popular Lecture Series’

Dream Popular Lecture Series (DPLS) is a series of special classes and lectures taken by eminent Faculty members and research scholars from various esteemed institutes. These respected Professors are not only from West Bengal but from Central Ministry Governed Institutes from other parts of India. This series of lectures are providing students and our respected Faculty members a lot of new age technological progression about electronics and communication field which helps the department to attain the gap beyond syllabus given by the university. Some of the glimpses of the lecture series are given below.



- “DREAM POPULAR LECTURE SERIES” on “Emerging Drifts in Solar Cell Technology” by Dr. Rudra Sankar Dhar, Assistant Professor, Department of E.C.E. N.I.T. Mizoram.
- “DREAM POPULAR LECTURE SERIES” on “A Fundamental Idea about latest Robotics & IOT Technology” by Mr. Jayabrata Goswami, System Analyst, Netaji Open University.



ACHIEVEMENTS BY THE DEPARTMENT

SOME PROJECT CARRIED OUT BY STUDENTS

- Smart Auto billing shopping cart
- Optimized Design of Wide Band Polarization Diversified Microstrip Antenna Transponder for Satellite Communication

HIGHER STUDIES



SWARNODIPTO GHOSH

M.Tech admitted in IIST, Thiruvananthapuram

PLACEMENT SCENARIO OF THE DEPARTMENT



Sarupya Das
Wipro Limited



Gourav Ghorai
Mantra Labs Pvt. Ltd.



Raj Kumar Singha
MSys Technologies, LLC

Placement Percentage of Academic Session 2021-22



■ Total No. of Students ■ No of Students placed



PUBLICATIONS BY OUR RESPECTED FACULTY MEMBERS

- ▶ **A Comparative Study of GaN and Si-Based SOI FinFET by Abhishek Saha, Rudra Sankar Dhar & Subhro Ghoshal at Springer Nature, 2022 in Networks & Systems 426, https://doi.org/10.1007/978-981-19-0745-6_37**
- ▶ **A DC Analysis of Single-Gate TFET Using InAs as Channel Material by J. Goswami, A. Ganguly, A. Ghosal, J.P. Banerjee at Generation, Detection and Processing of Terahertz Signals. Lecture Notes in Electrical Engineering, vol 794. Springer, Singapore. https://doi.org/10.1007/978-981-16-4947-9_10**

PUBLICATIONS BY OUR STUDENTS

- ▶ **Hybrid Technology for Smart Housing Complex using Non-conventional Energy by Faez Ahmed Khan, Debasis Roy, Arijit Chowdhury, Biprajit Acharjee, Arijit Chowdhury at https://doi.org/10.36375/prepare_u.a52**
- ▶ **Miniaturized and modified Microstrip patch antenna for Ultrawideband Massive MIMO applications by Swarnodipto Ghosh, Ayona Chakraborty, Suman Dey, Samik Chakraborty at Journal of Electromagnetic Waves and Applications, Under review**
- ▶ **Optimized Design and Analysis of Dual Band Polarized Diversified Compact Microstrip Trans-Receiver Antenna by Ayona Chakraborty, Swarnodipto Ghosh, Suman Dey, Samik Chakraborty, Sayan Chatterjee, Bhaskar Gupta at Asia Pacific Microwave Conference, Japan 2022.**
- ▶ **Loaded Multiloop Hexagram Shaped Printed Antennas For Multifrequency Communication by Ayona Chakraborty, Swarnodipto Ghosh, Sourav Roy, Samik Chakraborty, Bhaskar Gupta at 21st MMS 2022 Conference, Pizzo Calabro, Italy.**

Chief Patron: Dr. Dipankar Sarkar

Editor-In-Chief: Mr. Supratim Roy

Student Member: Subhrakanti Bose

Anusuya Saha

Gopal Kundu

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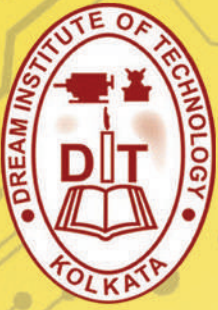
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OUR ALUMNI ACHIEVEMENTS

Aniket Mukherjee

Joined as an assistant Consultant in September' 2022 in Tata Consultancy Service.

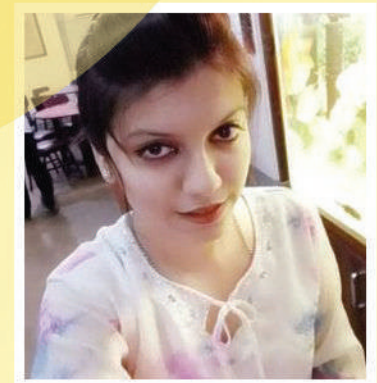


Sourav Bose

Completed his Doctoral from University of Lorraine, France.

Ahana Das

Designation: Senior Engineer
Company Name: M. N. Dastur & Company (P) Ltd.



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