

DREAM INSTITUTE OF TECHNOLOGY

Department of Electronics and
Communication Engineering

Website: www.dreaminstituteonline.com

Mail id: dept.ece.dit@gmail.com

TECH-COGNIZANCE

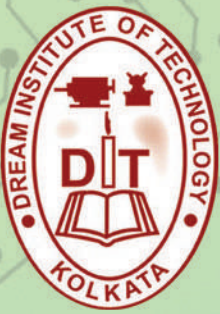
Editor in Chief

Mr. Supratim Roy

Chief Patron

Dr. Dipankar Sarkar

EDITION: JUN- 2021



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.

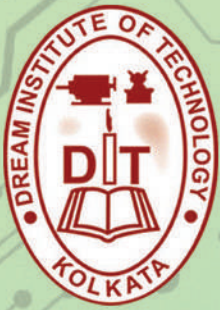


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Tech Cognizance

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



This Issue

- P.1– About the Department
- P.2– Mission, Vision & Objective
- P.3– Events organized by the Department
- P.4– Achievements of the Department
- P.5– Publication by the Department

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

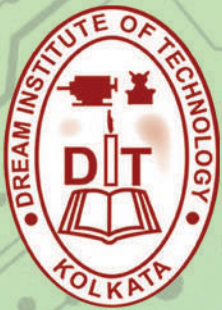
- To develop the fundamental knowledge of electronics through innovative student centric learning process.
- To unravel global industrial challenges through latest technological tools and knowledge.
- To evaluate skills through strategic collaborative learnings and R&D activities.
- To provide entrepreneur 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**)

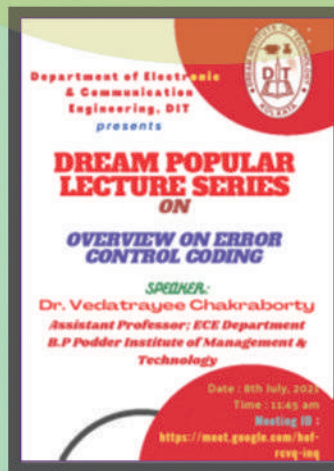


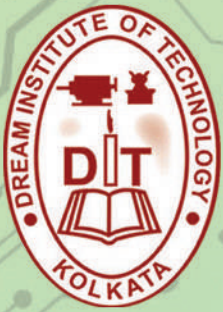
EVENTS ORGANIZED BY THE DEPARTMENT

‘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 “**Contemporary Technology for Future Nano-FETs**” by **Dr. Rudra Sankar Dhar**, Assistant Professor, Department of E.C.E. N.I.T. Mizoram.
- “DREAM POPULAR LECTURE SERIES” on “**Overview on Error Control Coding**” by **Dr. Vedatrayee Chakraborty**, Assistant Professor, Department of E.C.E. B.P. Poddar Institute of Management & Technology.
- “DREAM POPULAR LECTURE SERIES” on “**Introduction To Antenna Theory & Application**” by **Dr. Ayona Chakraborty**, Post Doctoral Research Fellow, E.T.C.E. Department, Jadavpur University.





ACHIEVEMENTS OF THE DEPARTMENT

RESPECTED FACULTY MEMEBERS WHO ARE PURSUING FOR Ph.D

The faculty members of our department are always very eager for continuous evolution in their teaching process and to enhance this, they always try to improve their knowledge and teaching skill. Our patron **Dr. Dipankar Sarkar** is always helping all the faculty members for their own betterment in the field of knowledge. So, with his inspiration and mind-blowing ideas, we, the faculty members of the department of electronics and communication engineering are always trying to go beyond our knowledge and comfort zone.

Faculty Name	Department	Course	Institute	Enrollment Number	Session
Mr. Anirban Basu	ECE	Ph.D.	NIT, MZ	MZU2110565	2021
Mr. Prithick Saha	ECE	Ph.D.	NIT, Patna	DT21EC005	2021

Some Project Titles Carried Out by Students for the Academic Session 2020-2021

- Smart Dustbin
- Smart Dustbin
- RF ID Display Board
- Disc Positioning Using Android
- Android Based Fan Control

Chief Patron: Dr. Dipankar Sarkar

Editor-In-Chief: Mr. Supratim Roy

Student Member: Subhrakanti Bose
Anusuya Saha
Gopal Kundu

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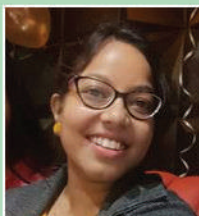
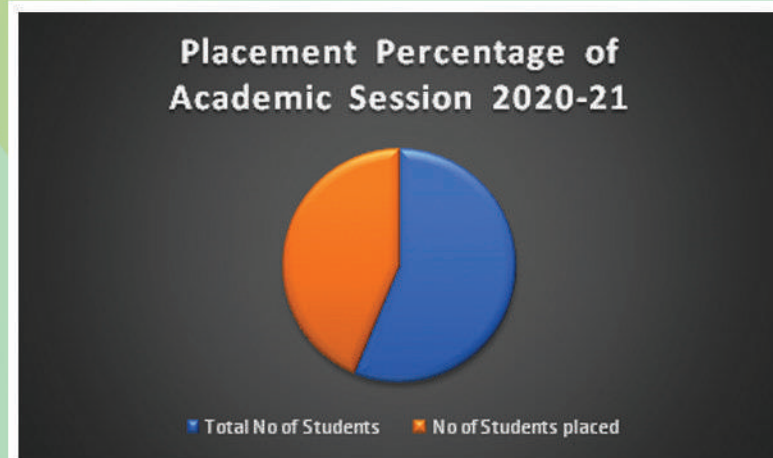




PUBLICATIONS OF THE DEPARTMENT

- ▶ Abhishek Saha, Rudra Sankar Dhar, Subhro Ghoshal, “A Comparative study of GaN and Si based SOI FinFET” in International Conference on Computational Techniques and Applications (ICCTA, 2021)
- ▶ Abhishek Saha, Vedatrayee Chakraborty, “Simple Gain Model of Group III-V Semiconductor based Laser Diode” Recent Trends in Electronics & Communication Systems, ISSN: 2393-8757 Volume 7, Issue 3, pp 9-27.
- ▶ Abhishek Saha, Vedatrayee Chakraborty, “Comparative study of Drain Current of Symmetric and Asymmetric DGMOSFET with Simulation in Silvaco_TCAD Software” in Journal of Semiconductor Devices and Circuits, ISSN: 2455-3379, Volume 8, Issue 1, pp 1-14, 2021

PLACEMENT SCENARIO OF THE DEPARTMENT



Sayani Ghorai
Cognizant Technology Solutions Corp.



Bishal Sarkar
Capgemini Technology Services India Ltd.

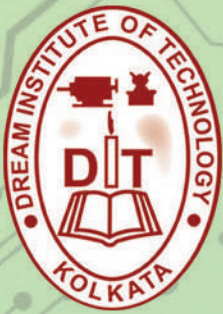
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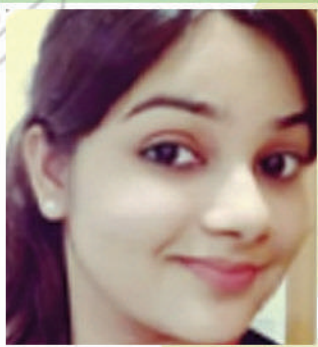




OUR ALUMNI ACHIEVEMENTS

Bivash Manna

Completed Ph.D. degree on 03.09.2021 from IIT, KGP under Prof. P.K. Guha and Prof. Indrajeet Chakraborty
Topic: Quantum Computation Modelling and Experimental Design of Solid-State Conductive Sensor Device.
Now, he is a post-doctoral research scholar in Institute of Microelectronics, Technische Universität Wien, Vienna Austria.



Shreya Somani

Admitted in MBA on Product Leadership in Institute of Product Leadership, April 2022 currently working as Programme Manager, APAC for Gartner.

Abhiron Bhattacharya

Recently joined 'Heracus Group' as a Senior Manager M & A and strategy. Also completed his MBA for NITTE.

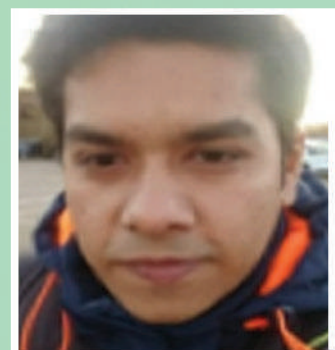


Sananda Dutta

Recently joined as a Senior Data Engineer in 'Zalando S E'

Dipanjan De

Recently promoted to Assistant consultant at Tata Consultancy Service. Also, he is a part of Technical Round Interview Board of Easter Region.



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