

**TECH
COGNIZANCE**

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

Chief Patron : **Dr. Dipankar Sarkar**

*Department of Electronics and
Communication Engineering*

EDITION: DEC. - 2022

DREAM INSTITUTE OF TECHNOLOGY

www.dreaminstituteonline.com

✉ dept.ece.dit@gmail.com





Tech Cognizance

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



This Issue

- P.1– PEOs & PSOs of Department
- P.2– Departmental Faculty Members
- P.3– Achievements of the department
- P.4– Publication of the department
- P.5– Our Alumni Achievements

PSOs & PEOs OF THE DEPARTMENT

PSOs:

1. To analyze, design and optimization using finite element based simulation of practical problems related to 4G LTE/ 5G NR communication systems, microchips design and bioelectronics device.
2. To develop prototype fabrication and testing based on the latest industry demands of the same in the real working environment.

PSOs:	Statement
PEO 1	Students will acquire knowledge to make them self-employable in Electronic Design, Telecom as well as IT sectors and pursue higher studies in the core and management sector.
PEO 2	Student will possess core competency in Device and Communication Systems design and development that helps to meet ever-changing industrial and societal demands.
PEO 3	Student will be exposed to data science and computation, Machine Learning, AI, Mechanics and Bio Electronics through inter-departmental/ industrial collaboration.
PEO 4	Students can engage themselves in research work, and development of interpersonal skills and professional ethics (like obeying safety norms & Maintain IEEE standards).
PEO 5	Student will inherit a lifelong learning attitude, adaptability, quality consciousness and punctuality which would facilitate them to get success in professional life.



FACULTY MEMBERS OF ECE

Dr. Manasi Das (H.O.D.)	Ms. Anindita Das
Mr. Abhishek Saha (Convener)	Mr. Amit Kumar Chakraborty
Mr. Prithick Saha	Mr. Trilochan Patra
Mr. Anirban Basu	Mr. Supratim Roy
Mr. Sabir Akhtar Mallick	Mr. Sourav Dutta
Mrs. Sarmishtha Roy	Mr. Biplab Banerjee
Mr. Saurav Ghosh	Ms. Sanjukta Biswas
Mr. Ujjal Majhi	Mr. Arnab Sau

Chief Patron: Dr. Dipankar Sarkar
Editor-In-Chief: Mr. Supratim Roy
Student Member: Subhrakanti Bose
Anusuya Saha
Gopal Kundu

2
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ACHIEVEMENTS OF THE DEPARTMENT

NAME OF THE FACULTY MEMBER	DEPARTMENT	COURSE	INSTITUTE	TOPIC	SESSION
Mr. Amit Kumar Chakraborty	E.C.E.	Ph.D.	Institute of Radio Physics & Electronics, University of Calcutta	Ionospheric Scintillation Model Caused by Irregularities	2022

PUBLICATIONS

SL. NO.	TITLE	AUTHOR NAME	PUBLICATION DETAILS
	Other Applications. In Lithium Ion Glassy Electrolytes: Properties, Fundamentals, and Applications.	Saha, P. and Bhattacharya, S.	pp. 183-195, Springer Nature Singapore
	Efficient and Lead-Free Perovskite Solar Cells Based on Defect-Ordered Methyl Ammonium Antimony Iodide	Saha, Prithick, Sangeeta Singh, and Sanjib Bhattacharya	IEEE Transactions on Electron Devices, 2023, DOI:10.1109/TED.2023.3235870
	ECG denoising using Adaptive Unscented Kalman Filter	Agniva Dutta and Manasi Das	IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2022)
	Performance Analysis of a Rain Fading Predicted Model in Tropical Areas for 5G Communication	T. Patra, S. K. Mitra	Progress In Electromagnetics Research M (PIERM), EMW Publishing, Vol. 110, pp. 49- 59, 2022,
	Resource Optimization of MIMO Using Neural Network for 5G Communication	T. Patra, S. K. Mitra	Alexandria Engineering Journal, Elsevier, Volume 61, issue 12, pp 12581-12592, https://doi.org/10.1016/j.aej.2022.06.048
	Application of a Trellis Coded Modulation to Ameliorate the 5G Communication for Tropical Regions	Trilochan Patra, Swarup Kumar Mitra	Indian journal of Science and Technology, Volume 16, Issue 1, 2023 pp. 37-46, https://doi.org/10.17485/IJST/v16i1.2079



Mr. Trilochan Patra of ECE won ISSN international best researcher award by ISSN for Resource optimization of MIMO using neural network for 5G communication in Alexandria Engineering Journal, SCIE indexed, Impact Factor – 6.626, Elsevier.

3
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OUR ALUMNI ACHIEVEMENTS

Ahana Das

Got her M.B.A. in Financial Management from Jadavpur University.



Debahuti Bhattacharya

Recently switched from TCS to Infosys as a Team Leader.



Dream Institute of Technology
Thakurpukur, Samali, B.H Road
Kolkata - 700104, West Bengal, India.
Phone No: 033 24980376

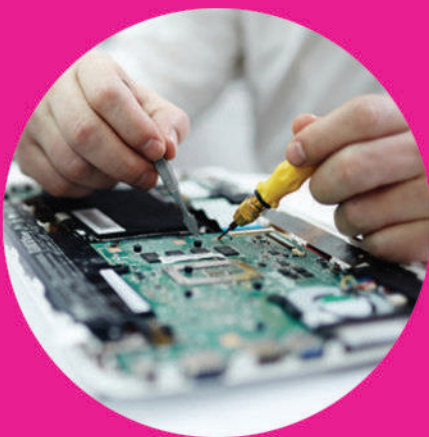
4
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🏠 Thakurpukur, Samali, B.H Road Kolkata - 700104, West Bengal, India