

APRIL TO JULY 2023

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION**

Newsletter



VISION

To create a centre for imparting technical education of international standards and conduct research at the cutting edge of electronics & communication technology to meet the current and future challenges of technological development.

MISSION

To create technical manpower for meeting the current and future demands of industry and academia: to recognize education and research in close interaction with electronics & communication & related industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the institute with sensitivity to social development and eye for opportunities for growth in the international perspective.



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- Aasif Mohammad Bhat a, Ritu Poonia , Arathy Varghese, Nawaz Shafi and C. Periasamy, "AlGaIn/GaN high electron mobility transistor for various sensing applications", Micro and Nanostructures (Elsevier) Volume :1 / 207528 / 2023
- Rajesh Saha, Deepak Panda, and Rupam Goswami, "Dependence of RF/analog and linearity parameters on ferroelectric layer thickness in ferroelectric tunnel junction dual material double gate (FTJ-DMDG) TFET", Ferroelectrics Volume :602 / 204-214 / 2023
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- Piyush Jha, Rashi Kumar and Vineet Sahula, "Filtering and Extended Vocabulary based Translation for Low-resource Language pair of Sanskrit-Hindi" , ACM Transactions on Asian and Low-Resource Language Information Processing Volume :Early / 14 / 2023 ISBN: 2375-4699.
- Book chapter" "role of photonics for the realization of future 6G communication systems chapter 10, book: 5G wireless communication system in healthcare informatics,1st edition ISBN:9781032312194 published by - CRC press (routledge, taylor & francis group) year 2023 authors- kamal kishor choure, manisha prajapat, ankur saharial, nitesh mudgal, manish tiwari, puspa devi pukhrambam,Ghanshyam singh
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- Ankur Saharia, Kamalkishor Choure, Nitesh Mudgal, Ravi Kumar Maddila, Manish Tiwari, Ghanshyam Singh , "Introductory Review on All-Optical Machine Learning Leap in Photonic Integrated Circuits" , Optical Memory and Neural Networks Volume :31 / 393,402 / 2023
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- Deepshikha Lodhi, Sudhir Bhaskar, and S. Singhal, "Quad Port Wheel Shaped Superwideband MIMO Antenna (Accepted)" , Journal of Ambient Intelligence and Humanized Computing Volume :0 // 2023 ISBN: 1868-5145
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- Mittal, Shweta, Ankur Saharia, Yaseera Ismail, Francesco Petruccione, Anton V. Bourdine, Oleg G. Morozov, Vladimir V. Demidov, Juan Yin, Ghanshyam Singh, and Manish Tiwari , "Spiral Shaped Photonic Crystal Fiber-Based Surface Plasmon Resonance Biosensor for Cancer Cell Detection" , Photonics Volume :10(3) // 2023 ISBN: 2304-6732
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Geetha P. , Dr. Satyasai Jagannath Nanda and Prof. R.P.Yadav, "A Chaotic Sailfish Optimizer for Accurate DOA Estimation in Automotive Radar", 2nd IEEE International Conference on Microwave, Optical and Communication Engineering 2023 by :IEEE at IIT Bhubaneswar // 2023

Sushil Kumar Jain , Amit Mahesh Joshi, "OTFT Based Biosensor for Detection of Breast Cancer Biomarker C-erbB-2", Great Lakes Symposium on VLSI by :ACM at Knoxville, TN, USA // 2023

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Book chapter" A high-speed architecture for lung cancer diagnosis isbn:isbn 978-166-84-6525-7 published by - book-structural and functional aspects of biocomputing systems for data processing, global year 2023,R. Ratnakumar, shilpa, S J nanda

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Ashish Kumar, Arathy Varghese, Girraj Sharma, Manish Kumar, Gaurav K.Sharma, Mahanth Prasad, Vijay Janyani, R.P.Yadav and Khaled Elgaid, "Optimization and fabrication of MEMS based piezoelectric acoustic sensor for wide frequency range and high SPL acoustic application", Micro and Nanostructures (Elsevier) Volume :179 / 1-9 / 2023

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Conference organized:

International Conference on 4th International Conference on Data Science and Applications(ICDSA 2023) at Malaviya National Institute of Technology , Jaipur,



Dr. Satyasai Jagannath Nanda", Second Shanghai Cooperation Organization (SCO) Nations Young Scientist for Second SCO-YSC Young Scientist in the field of Artificial Intelligence and Big Data Analysis given by Department of Science and Technology, Govt. of India and JNCASR, Bengaluru, Karnataka.

Project



Project Investigator:

Dr. Amit Mahesh Joshi

Title of the Project:

Onboard spectral preprocessing for multispectral image compression using FPGA

Funding Agency: ISRO

Amount: 18.62 lakhs

Duration: 2023-2025

Project Investigator:

Dr. Kuldeep Singh

Title of the Project:

Development of techniques for data traffic based analysis of smart systems

Funding Agency: DRDO, Ministry of Defense , Govt. of India

Amount: 103.49 lakhs

Duration: 2023-2025

Project Investigator:

Dr. Ritu Sharma

Title of the Project:

Design , fabrication and performance evaluation of flexible piezoelectric biomechanical energy harvester

Funding Agency: SERB-Power Grant

Amount: 59.97 lakhs

Duration: 2022-2025

CONVOCATION-2023

Degrees Received:

UG-96

PG-85

PhD-13



PLACEMENTS 2022-23

UG Students Placed-89.09 %

Highest Package-64 LPA

Average Package-17.19 LPA

PG Students Placed-54%

Highest Package-37.49 LPA

Average Package-15.98 LPA

MAJOR RECRUITERS



Conference organized

International Conference on 4th International Conference on Data Science and Applications (ICDSA 2023) at Malaviya National Institute of Technology , Jaipur.



International Yoga Day

