



CENTRAL UNIVERSITY OF JAMMU



INFORMATION BROCHURE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

(Under the Mentorship of IIST-ISRO)

<https://www.cujammu.ac.in/>





CENTRAL UNIVERSITY OF JAMMU

From Vice-Chancellor's Desk



I am honored to assume the office of the Vice-Chancellor of the Central University of Jammu. The motto of the University "बुद्धिर्ज्ञानेन शुद्धयति" meaning that knowledge refines, purifies, and sharpens the mind with the Rising sun, the Banyan tree, and the infinite sky emphatically reflecting the values, aspirations, goals, and ethos of the university, I deem it my privilege to work as a team leader to realize the full potential of one and all so that collectively we usher in an enlightened society, where inclusiveness, equity, justice and peace for all prevails. Standing on the threshold of a new era of education in India with the implementation of NEP-2020 when sweeping and significant changes are being envisaged with thrust on multidisciplinary institutions offering programmes with high-quality teaching, research, and community engagement, I am confident this phenomenal paradigmatic shift will understandably bridge the gap between students and institutions by emphasizing upon increased flexibility and enhanced life skills. The Central University of Jammu is committed to offer such cutting-edge learning experiences, internationally benchmarked education, and critical research opportunities by playing a participatory role in the growth of civil society. The Central University of Jammu has completed ten years of its existence and this necessitates an introspective stocktaking which every stakeholder must undertake so that our journey together is robust and fruitful. Therefore, we need to continue with consistent, rigorous, and sustained efforts in our academic journey so that more milestones are attained in our march ahead to attain our mission in full spirit.

Prof. (Dr.) Sanjeev Jain

Message from HOD's Desk



Welcome to the Department of Electronics and Communication Engineering, Central University of Jammu. The department offers B. Tech. degree in two programs, B.Tech in Electronics and Communication Engineering and B. Tech in Electronics and Communication Engineering –Avionics (under the mentorship of IIST-ISRO). Our sincere goal is to transform this department into a thoughtful hub of knowledge with outstanding faculty and efficient administration, serving the interests of society as a whole and providing us with inspiration in the process. The department takes great pride in providing its students with high quality, application-based education and hands-on training that equips them to meet the demands of the rapidly evolving technical and corporate world. An outstanding library within the university campus and in the department, along with well-established laboratories, improves subject knowledge. The department offers a platform for research in developing field through its research centre, SDCSS -Satish Dhawan Center for Space Science (ISRO) and facilitates study on latest technologies. In addition to regular classwork and lab teachings, the department and students conduct seminars and colloquia to engage with distinguished individuals and gain insight into the most recent advancements in the Electronics and Communication sector.

Best wishes,

Prof. (Dr.) Rakesh Kumar Jha

HoD

DoECE

Central University of Jammu



Academics Programmes

Undergraduate Programmes

- B. Tech in Electronics and Communication Engineering
- B. Tech in Electronics and Communication Engineering - (Avionics)

Doctoral Programmes

- Full time PhD in Electronics and Communication Engineering

Minor Degree

Minor degree in Microelectronics & Semiconductor, Space Technology, Cyber Security, AI /ML, Quantum Computing and Mathematics & Computing

Laboratories

Basic Electrical Engineering, Basic Electronics Engineering, Digital Electronics Engineering, Digital Signal Processing Lab, IOT Lab, Signal and System Lab, Communication Lab, AI & Robotics Lab, Machine Learning Lab, Data Science Lab



Research Area

6G Wireless Communication Network, Wireless security, Artificial Intelligence, NB-IoT, Green communication, Quantum communications, UAV/Drone communication, Cryptography and Network security, Wireless Networking, MANET, ITS, IoT, SDN, Microelectronics and VLSI Design, Biomedical Signal Processing, Image Processing, Genomics Signal Processing, Digital Signal Processing, RF and Microwave, Security attack modeling, Satellite communication, SWIPT, IRS, mmWave, Physical layer security analysis in MIMO, Multi-user MIMO and Massive MIMO system, Control System.





Faculty



Prof. (Dr.) Rakesh Kumar Jha
Professor and Head
Department of Electronics and Communication



Dr. Sachin Kumar Gupta
Associate Professor
Department of Electronics and Communication



Dr. Sunil Datt Sharma
Associate Professor
Department of Electronics and Communication



Dr. Sanjeev Yadav
Associate Professor
Department of Electronics and Communication



Dr. Misbah Shafi
Assistant Professor
Department of Electronics and Communication



Dr. Rajeev Kumar
Assistant Professor
Department of Electronics and Communication



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Assistant Professor
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