



What's New

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Vision

To become a leading Centre of Excellence in higher learning and research, and to facilitate the transformation of students into good human beings and competent professionals recognized nationally and globally.

Mission

- Focus on assimilation, generation and dissemination of knowledge in the field of Electronics and Communication Engineering.
- Practice and inculcate high standards of professional ethics, transparency and accountability.
- Provide an academic environment that fosters leadership, research aptitude and promotes life-long learning.
- Increase the visibility of academic programs globally and attract talent at all levels.

Terahertz (THz) Technology for 6G Networks

Advancements in THz Technology for Future 6G Networks

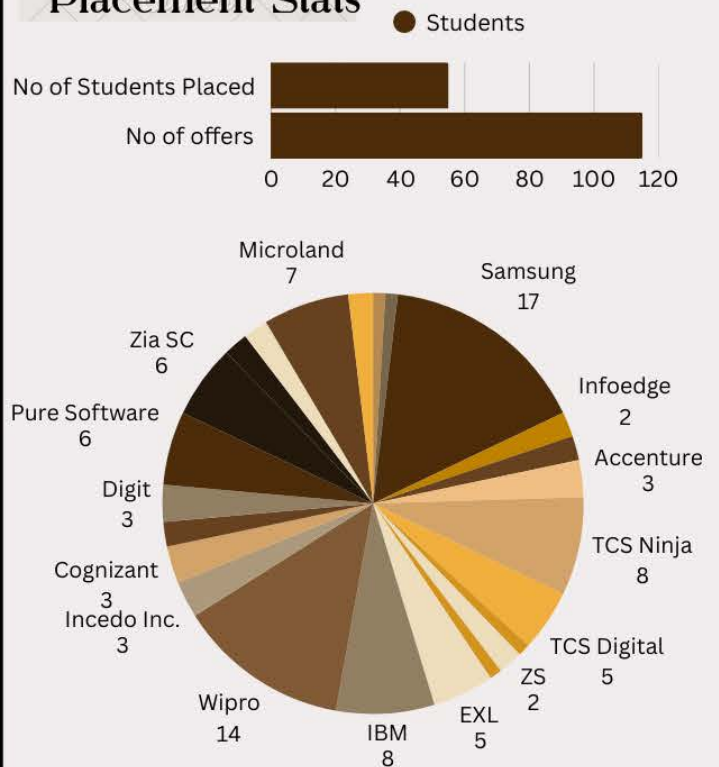
A comprehensive survey on terahertz (THz) technology emphasizes its transformative potential in enabling 6G wireless networks. The study, focused on the 200-400 GHz frequency range, delves into advancements in THz systems, circuits, device technologies, and antennas. Experimental demonstrations highlighted significant progress, though the research identifies areas requiring further improvement to achieve practical and efficient THz communication for next-generation wireless connectivity.

Source: This summary is based on the findings from the referenced research paper, which also highlights the IEEE 802.15.3d standard as a critical framework for THz communication development.



The IEEE 802.15.3d standard provides a structured approach to leveraging the 200-400 GHz frequency band for wireless communication, setting specifications for data rates, channel bandwidths, and network performance. This framework has been instrumental in driving the development of high-speed THz links, which are essential for meeting the demands of 6G networks.

Placement Stats



International Journals 2022

Research Publications by Faculty of ECE (Jan-June)



Student Corner

Smart India Hackathon Finalist

Shairin Meraj showcased exceptional dedication and innovative thinking as a participant in the Smart India Hackathon 2022 – Senior Software Edition, held on August 25-26. Organized by the Ministry of Education's Innovation Cell, this national-level event provided a platform for young innovators to tackle real-world challenges with groundbreaking solutions. The participation certificate reflects Shairin's commitment to excellence in technology and collaborative problem-solving, contributing to India's progress in innovation and digital transformation. This achievement highlights an inspiring journey toward shaping a smarter and more sustainable future.

International conferences 2022

Conferences Attended by Faculty of ECE (Jan-June)

