## Centre for Interdisciplinary and Convergent Technologies

**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR** Kharagpur – 721302, India

**Date:** June 20, 2026

**Dear Students,**

Congratulations on your hard-earned success! We are absolutely thrilled to welcome you to the **Centre for Interdisciplinary and Convergent Technologies** at IIT Kharagpur.

By joining the Centre, you are stepping into a vibrant ecosystem designed to blur the lines between traditional engineering disciplines and pioneer the technologies of tomorrow. Our Centre proudly offers two cutting-edge postgraduate programs: (i) M.Tech in Electric Transportation and (ii) M.Tech in Cyber Physical Systems.

In addition to our specialized M.Tech cohorts, we welcome a dedicated group of PhD scholars who will drive advanced, core research foundational to SiC-based power electronics, EV drives, battery management, digital twins, GNSS-INS-LiDAR navigation for autonomous vehicles, MEMS sensors, multimodal sensor fusion, deep reinforcement learning, modular robotics with force-sensing real-time predictive maintenance, TFLN photonics, nonlinear-optic devices, photonic integrated circuits, ultrafast spectroscopy of quantum materials, nanoscale optoelectronics, digital Health, education and immersive technology, FTIR/Raman spectroscopy, explainable AI for non-invasive diagnostics. 3D-bioprinted tissues, electrochemical biosensors, and microneedle platforms for precision drug delivery. Whether you are aiming to master the complexities of modern engineering or push the boundaries of academic literature, you will find your home here.

As researchers and advanced practitioners, you will have access to state-of-the-art laboratory facilities, collaborative translational research frameworks, and opportunities to interface directly with pioneering industry partners. The complete link for the latest curriculum updates and academic guidelines is available at: https://shorturl.at/9EF6U

The alumni and faculty associated with our converging domains have consistently excelled in industrial R&D leadership and impactful academic research both in India and globally. We encourage you to explore our vision, connect with our community, and prepare yourself for an intense, rewarding, and transformative journey.

We wish you the absolute best as you embark on this exciting chapter!

**Head of the Centre** Centre for Interdisciplinary and Convergent Technologies

Indian Institute of Technology Kharagpur

Email: vikranth.racherla@mech.iitkgp.ac.in