



Division of **ELECTRONICS**
and **COMMUNICATION**
ENGINEERING



ADMISSIONS
2026



About Us

The Division of Electronics and Communication Engineering (ECE) was established in the year 1986 and has a good reputation for academics & research with well qualified faculty. The division is accredited by the National Board of Accreditation (NBA). Over the course of time, the division has acquired facilities such as Centre of Excellence in VLSI Design, Centre of Research in Semiconductor Devices, IoT centre and various other research laboratories for developing cutting edge technologies in the fields of Communication systems, Embedded systems, Signal Processing, Internet of Things and VLSI design. Specialized courses are collaborated with industries to provide practice-oriented academic and research trainings and to help students acquire good placement opportunities.

Our Vision

The Vision of the Division is Raise competent Electronics and Communication engineers to solve relevant problems and undertake research render to life on earth sustainable.

Our Mission

The Mission of the Division is

- M1: Enhance employability through student-centric teaching-learning process.
- M2: Promote higher education and research initiatives through continuous industry interaction.
- M3: Inculcate professional ethics and entrepreneurial attitude, addressing needs of the society.

Programs Offered

- **B.Tech.** Electronics & Communication Engineering (4 years Full Time)
- **B.Tech.** Electronics & Communication Engineering (Spl. in Artificial Intelligence & Machine Learning)
- **M.Tech.** VLSI Design (2 years Full Time)
- **Ph.D.** (Full Time / Part Time)

Areas of Academics and Research

- VLSI Design and Embedded Systems
- Internet of Things (IoT)
- Data Science
- Signal Processing
- Communication Systems
- Artificial Intelligence and Machine Learning

Career Prospects

- Telecommunication and IT Industries
- Automotive Electronics
- Consumer Electronics
- Smart Devices and Systems
- IoT Industries
- Embedded solutions
- Chip Design
- Nano Device Modelling
- Process controlled industries
- Audio and Video Processing
- Image Processing and Computer Vision
- Biomedical signal Processing
- Defense and Military Communication
- Computer Vision and Robotics
- Virtual Reality and Augmented Reality

Laboratory Facilities

The Division has excellent state-of-art facilities with Instruments and appliance matching the industry standards.

- RF Lab with MIMO-SDR platform funded by AICTE MODROB
- DRDO Funded Lab
- DST Funded Lab
- Computational Intelligence Lab
- Karunya IOT Centre (Internet of Things Lab)
- VLSI Design Lab
- Signal Processing Lab
- Microwave and Optical Fiber Communication Lab
- Electronics Lab
- Integrated Circuits Lab
- Microprocessor and Microcontroller Lab
- Chips to Startup Lab

Centres of Excellence and Research

In addition to the laboratories, the Division has established centre of excellence and centre of Research in collaboration with industries. These centres carry out industry live projects which subsequently turns in to products.

Centre of Excellence in VLSI Design

The centre of excellence in VLSI Design was established in the department in agreement with M/s Test & Verification Solutions India Pvt Ltd., India on 2018. The centre enhances the student's technical expertise in VLSI testing & verification. The centre is used by faculty and students for internships, projects and placements. The centre also sponsors a post graduate programme in VLSI Design.

Centre of Research in Semiconductor Devices

The centre of Research in Semiconductor Devices was established in the Department in the year 2019. The centre is used extensively for fabrication and modeling of semiconductor devices in the micro and nano scale level to meet Industrial needs. Collaborative research projects with Department of Space (ISRO), Ministry of Defence (DRDO) and Ministry of Electronics and Information Technology (MeitY) are carried out in this centre.

Research Activities/Funding Projects /Patents

- The Division of ECE is working on funded projects worth 5.6 crores provided by various government and R&D organizations.
- The division hold valuable publications by faculty and students in reputed journals with publishers like IEEE, Elsevier, Springer, IET, etc.,
- Faculty members have collaboration with other universities and laboratories from Europe, Asia, North America and Middle East countries.
- Turning ideas into impact, the ECE division proudly holds 18 patents filed and granted by its faculty and students.

Incubation By Faculty/students

- Abaya Security is incubated at Karunya Technology Business Incubation Park (KTBIP) - 23INCFY005
- FIOOSE Security (fiber optics-based intrusion detection) - Bootstrapping Startup - 22PIFY004
- WINRADOMIND Innovations Pvt. Ltd (Customized Antennas for next generation Wi-Fi) - 22PIFY016
- Zephyr - (Stun Gun - an IoT based systems for Women Safety) Preincubation in K-TBIP



Industry Collaborations

- Samsung R&D India
- Cadence Design Systems
- Tessolve Semiconductor
- CoreEL Technologies
- SEMIFIVE Technologies
- Robert Bosch

Student Professional Bodies / Chapters

- IEEE Student Branch (STB31061)
- IEEE Antenna and Propagation Society Chapter
- IEEE Signal Processing Society Chapter
- IEEE Vehicular Technology Society Chapter
- IETE Student Chapter

International Collaborations

Country	Institute/Industry	Nature of Collaboration
Romania	Transylvania University of Brasov	Erasmus Scheme-Provision for student exchange
USA	University of Texas Rio Grande Valley	Research
UK	Cardiff University	Research
Taiwan	Taiwan Semiconductor Research Institute	Research
South	Chungbuk National University, Cheongju	Research
Ireland	Ulster University	Research

Students also collaborate through internship programs in various universities abroad.

Salient Features

- Industry based training
- Project based learning
- Internships abroad with stipend (IAESTE)
- Summer Internship/In-plant Training/Industry Visits
- Project Expo / Hackathons / Symposiums
- Seed Money for innovative student projects
- Entrepreneur/Higher Education/Career Guidance Cell
- ECE Alumni Lecture Series
- GATE Coaching

Conference Series

- IEEE International Conference on Devices, Circuits and Systems
- IET International Conference on Computer Vision and Internet of Things
- IEEE International Conference on Signal Processing and Communication



Electronics and Communication Engineering

Industry Certified Short-term Courses / Training Programs

Program	Name of the Industry
5G Amplifier Design Using AWR Software	Cadence- AWR
Certificate Course on Microwave Office for RF Engineers	Cadence- AWR
Digital IC Design and Implementation Using FPGA Kit	CG Coreel Technologies Pvt. Ltd.,
Advance Machine learning Techniques with MATLAB: Applications and Challenges in Industry 4.0	MathWorks and Design Tech Systems Private Ltd.,
Two days National workshop on Analog IC Design & Verification Using Cadence Tools	Cadence EDA, Entuple Technologies Pvt. Ltd.
Training Session on Rapid Miner (A machine Learning Tool)	Altair AI Studio

Major Recruiters



Testimony



Ms. ANNIE REACHEL

B.Tech. ECE (2022 – 26)
Placed in Cognizant and ZOHO

I thank God for His grace, guidance, and blessings throughout my journey. I am grateful to Karunya Institute of Technology and Sciences for the learning, support, and memorable moments I experienced during my journey here as an ECE student. I sincerely thank my faculty members for their guidance and encouragement throughout my academics and placements. The environment at Karunya helped me grow not only academically but also spiritually. I truly enjoyed every moment spent on campus with friends and mentors. By God's grace, I am happy to be placed in a Top MNCs. This journey has shaped me into a more confident person, and I am thankful for all the opportunities given to me.



Mr. GOKUL J

B.Tech. ECE (2022 – 26)
Placed in ZOHO and Infosys

I'm thankful for the learning and opportunities I had during my time as an ECE student at Karunya, and for the guidance and support from my faculty members and peers throughout the journey. I'm happy to be starting my professional journey with Zoho and grateful to all those who supported me along the way.



The Head of Division

Electronics and Communication Engineering

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