- Intel IoT workshop
- Antenna design using ANSYS HFSS
- Electronics for Intelligent Machines – Summer School
- Remote Sensing and Digital Image Analysis, Organized by: Indian Institute of Remote Sensing, ISRO, Dehradun in KITS, CBE
- Add-on Course on Building IoT based Applications for Communication
- Add-on Course on VHDL Programming for IC Designers
- Add-on Course VLSI for Visual Computing
- Add-on Course ML and DL Using MATLAB
- Add-on Course Modern Antenna Design using FEKO
- Add-on course on "Evolution Towards 5G Communication Systems"

Testimony

Mr. Aditya Josiah Tirkey
B.Tech. ECE (2021 – 25)
Placed in GEP, Accenture and Capgemini

Studying in this prestigious University has been a remarkable journey and a transformative experience in my life. Karunya provided me with a platform to grow academically as well as spiritually, shaping me into a more confident and a capable individual.

During the early days of my 7th semester, I faced significant anxiety about placements, unsure of what the future held. However, God strengthened me with His promises

Clinging to His word, I persevered in faith and hard work. In the same semester, God fulfilled His promise by opening two wonderful doors as I got a placement offer in GEP, Accenture and Capgemini with a great package.

I am immensely thankful to God for His faithfulness and blessings in my life. I also owe my deepest gratitude to my mentor, faculty, friends, and the dedicated faculty of the ECE for their unwavering support, guidance, and encouragement throughout my journey.

I give all glory to God for His goodness and am forever thankful to Karunya for being a part of my success story.

Mrs. JOANNA J
B.Tech. ECE (2021 – 25)
Placed in Accenture and Capgemini

It is the will of God for me to study in this prestigious institution. It is His love and grace that has led me thus far. In my 7th semester, I was afraid about the placements. God spoke to me through his word "Go in peace, and the God of Israel grant your petition that you have made to him". By his grace, I got placed in two companies - Accenture and Capgemini with a good package. God is faithful. His love and grace endure forever. I thank God for fulfilling his promise in my life. I am indebted to my mentor, faculty and all staff members of the Division of ECE for their never-ending support and encouragement.

Major Recruiters

HYUNDAI MOBIS | TATA ELXSI | Tech Mahindra
TESSOLVE A HERO ELECTRONIX VENTURE | BOSCH | TCS TATA CONSULTANCY SERVICES
Visteon | pwc | RapidData
ibssoftware | DELPHI-TVS | wipro
accenture | CAPPS | ZOHO
TEJAS NETWORKS | HEXAWARE | Ford
TIGER ANALYTICS | ITCINFOTECH | HCL
WORKCOHOL

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DEEMED UNIVERSITY
SOLVING HUMAN PROBLEMS
NAAC Accredited A++

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KEE'25
(Online Karunya Entrance Exam)
For B.Tech.
Slot 1: 11 & 12 January, 2025 | Slot 2: 5 & 6 April, 2025

Division of ELECTRONICS and COMMUNICATION ENGINEERING

ADMISSIONS 2025

The Head of Division
Electronics and Communication Engineering
Karunya Institute of Technology and Sciences,
KarunyaNagar, Coimbatore-641114, TamilNadu, India
E-mail: hod_ece@karunya.edu • Web: www.karunya.edu/ece

Tel: 0422 - 2614393
Toll Free: 1800 88 99 888, 1800 42 54 300

CATEGORY 1 Institution UGC GoI.

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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 were collaborated with industries to provide practice-oriented academic and research trainings and also to help students acquire good placement opportunities.

Our Vision

Raising competent Electronics and Communication Engineers and Technocrats to solve the problems of human society

Our Mission

To raise Engineers and Researchers with technical expertise on par with International Standards, Professional Attitude and Ethical Values, having the ability to apply acquired knowledge and skills for a productive career and service to humanity

Programs Offered

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

Areas of Academics and Research

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

Career Prospects

- Telecommunication and IT Industries
- Artificial Intelligence
- 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
- Wireless Sensor Networks
- 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
- Microwave and Optical Fiber Communication Lab
- Signal Processing 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 division 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 division 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 Projects

High Power Electronic Devices and Systems

- Defense Research and Development Organization, Govt. of India – 51 Lakhs
- Indian Space Research Organization, Govt. of India – 30.44 Lakhs
- Ministry of Electronics and Information Technology – 86 Lakhs

Medical Signal Processing

- Department of Science and Technology, Govt. of India - 47 Lakhs
- Boston children hospital, Boston, USA – 0.65 Lakhs
- University of Westminster, UK – 32.97 Lakhs
- TNSCST, DST, ICMR, AICTE-MODROB – 95 Lakhs

Low Power Wearable Electronics

- Defense Research and Development Organization, Govt. of India – 37.64 Lakhs

Research Activities / Funding Projects / Consultancies

The Division of ECE is working on funded projects worth 3.9 crores provided by various government and R&D organizations. The division also hold valuable publications by faculty and students in reputed journals with publishers like IEEE, Elsevier, Springer, IET, etc., Further, the faculty members have collaboration with other universities and laboratories from Europe, Asia, North America and Middle East countries.

MOUs Signed / Industry Collaborations

- Samsung R&D India
- Tessolve
- Gislen Software
- Jasmine InfoTech (P) Ltd.
- Data Patterns

Salient Features

- Industry based training
- Summer Internship / In-plant Training / Industry Visits
- Student Professional Bodies like IETE & IEEE
- Entrepreneur / Higher Education / Career Guidance Cell
- Mini-project-Expo / Symposiums
- Student patents
- Seed Money for innovative student projects
- Faculty Awards / Recognitions
- ECE Alumnus Visit
- Internships abroad with stipend through IAESTE
- GATE / IES Coaching
- Wi-Fi connected campus

Conference Series

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

Add-on / Certificate Courses

- AICTE sponsored ATAL FDPs and trainings
- Hands-on Training on IoT using Arduino Programming
- Certification Course on "Python Programming"
- Add-on Course on "Android IoT Applications (Developer Course)"
- Real time applications on Audio Image and Video Signal Processing
- RF Circuit Design using NI AWR Microwave office
- Verilog HDL Programming in Xilinx ISE
- Wireless Communication using Open-Source Tools/MATLAB
- TMS 320C6416 DSP Processor Programming using CCS Studio