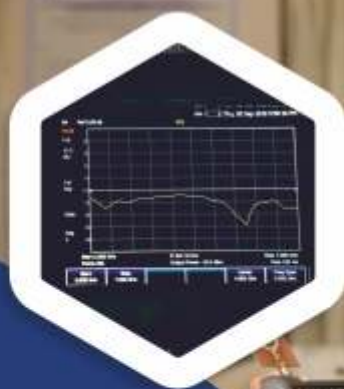




Department of  
**ELECTRONICS and  
COMMUNICATION ENGINEERING**

Admissions  
**2021**



## 🌿 About Us

The Department 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 department was accredited by the National Board of Accreditation (NBA) in 2019.

Over the course of time, the department has acquired facilities such as a Centre of Excellence in VLSI Design, a Centre of Research in Semiconductor Devices, an IoT Centre, and various other research laboratories for developing cutting-edge technologies in the fields of Communication Systems, Embedded Systems, Signal Processing and VLSI Design.

Specialized Courses are conducted in collaboration with industries to provide skill-oriented academic and research training that equip the students for core placements.

## 🌿 Vision

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

## 🌿 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 and Communication Engineering (ECE) (4 Years FT)
- **B.Tech.** Electronics and Communication Engineering (Specialization in IoT - 4 Years FT)
- **B.Tech.** Electronics and Computer Engineering (ECM) (4 Years FT)
- **M.Tech.** Communication Systems (2 Years FT)
- **M.Tech.** VLSI Design (2 Years FT)
- **Ph.D.** (Full Time / Part Time) – 3 / 4 Years

## 🌿 Areas of Academics and Research

- Artificial Intelligence and Machine Learning
- VLSI Design and Embedded Systems
- Internet of Things (IoT)
- Data Analytics
- 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 Modeling
- 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



## 🌱 Laboratory Facilities

The Department has excellent state-of-the-art facilities with instruments and appliances on par with industry standards.

- RF Lab with MIMO-SDR platform funded by AICTE MODROB
- DRDO funded laboratory
- DST funded laboratory
- Internet of Things Lab (Karunya IOT Centre)
- VLSI Design Lab
- Signal Processing Lab
- Microwave and Optical Fiber Communication Lab
- Electronics Lab
- Integrated Circuits Lab
- Microprocessor and Microcontroller Lab
- Computer Technology Centre with various software
- Nvidia Centre for AI

## 🌱 Centres of Excellence and Research

In addition to the laboratories, the Department has established a Centre of Excellence and a Centre of Research in collaboration with industries, which are also funded by the Government. These Centres carry out industry live projects and research that subsequently lead to patents & products.

## 🌱 Centre of Excellence in VLSI Design

The Centre was established in collaboration with M/s. Test & Verification Solutions India Pvt. Ltd., India in 2018 and has state-of-the-art facilities with H-SPICE proficiently supported by high-end Linux Platforms. The Centre enhances students' technical expertise in VLSI testing & verification. The Centre is used by the faculty members and the 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 was established in the year 2019 and is used extensively for modeling and fabrication of semiconductor devices in micro and nano technology to meet industrial needs. Collaborative research projects with the Department of Space (ISRO), the Ministry of Defence (DRDO) and the Department of Electronics are carried out.

## 🌱 Research Activities / Funding Projects / Consultancies

The Department of ECE is working on projects worth Rs.2.65 crores funded by various government and R&D organizations. The department also holds valuable publications by faculty and students in reputed journals with publishers like IEEE, Elsevier, Springer, and IET. Furthermore, the faculty members have research collaborations with international universities and laboratories from Europe, Asia, North America, and Middle Eastern countries.

## 🌱 Mous Signed / Industry Collaborations

- Samsung R&D India
- Altair Engineering India Pvt. Ltd.
- EinNel Technologies
- Entuple Technologies
- Intel Technology India Pvt. Ltd.
- Texas Instruments Pvt. Ltd.
- Jasmin InfoTech Pvt. Ltd.
- KPIT Ltd.
- M/s Edgate Technologies
- Test and Verification Solutions

## 🌱 Research Projects

### Electronic Devices and Systems

- Defence Research and Development Organization, Govt. of India – 21.98 Lakhs
- Indian Space Research Organization, Govt. of India – 30.44 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



ELECTRONICS and COMMUNICATION ENGINEERING  
**Admissions 2021**

### Salient Features

- Industry-based training
- Summer internship/in-plant training/industry visits
- Student professional body chapters like IETE and IEEE
- Entrepreneur / Higher Education / Career Guidance Cell
- Seed money for innovative student projects
- Mini-project-expo / Symposiums
- Students patents
- Faculty Awards / Recognitions
- Internships abroad with a stipend through IAESTE
- GATE/IES coaching
- Wi-Fi-connected campus
- Add On / Certificate / Short Term Courses

### Testimony



#### Sudarshan Paul

B.Tech ECE (2017-21)  
 Placed in TCS (Digital),  
 Accenture, Cognizant and  
 Hexaware Technologies

My years at Karunya Institute of Technology and Sciences has helped me launch my career on a high note. I owe my success to the quality education I received in Karunya and the industry oriented professional skills I developed in the Department of ECE. The institution provided me with competent faculty, right mentors and helpful seniors for which I am grateful. The training and placement Centre has been helpful during the entire process that enabled me to receive 4 different offers from reputed MNCs. I hope to take the rich experience at Karunya forward and contribute significantly to the industry and nation.

### Our Recruiters



**APPLY NOW**

Scan QR Code to Start the Admission Process

**The Head of Department**

Department of Electronics and  
 Communication Engineering

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 TECHNOLOGY AND SCIENCES**

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