

► Add on / Certificate / Short Term 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
- 5 Days Short term certified course in Analog IC Design and Layout Design Methodologies using Cadence Analog Design Flow.
- Add on course On Verilog system design using FPGA
- Intel IoT workshop
- Antenna design using ANSYS HFSS
- Electronics for Intelligent Machines – Summer School
- Remote Sensing and Digital Image Analysis, Conducted by: Indian Institute of Remote Sensing, ISRO, Dehradun in KITS, CBE
- Online Addon Course on Building IoT based Applications for Communication
- Online Add on Course on VHDL Programming for IC Designers
- Online Addon Course VLSI for Visual Computing
- Online Addon Course ML and DL Using MATLAB
- Online Addon Course Modern Antenna Design using FEKO
- Two Week Add on Course on "Evolution Towards 5G Communication Systems"

► Testimonies



Ruby Grace Sowpati
B.Tech. ECE (2019 – 23)

Karunya has taught me so much in these 4 years. The faculty members make our journey easy. They are very kind and friendly. By God's grace, I got placed in four companies through campus placements. I firstly thank and

praise the good Lord who blessed me according to the promises. As per the university anthem, I truly believe with all my heart, "One in a million, I am His Choice."



Miraclin Sarah J
B.Tech. ECE (2019 – 23)

I am a Young Partner and my parents encouraged me to join Karunya. After coming to Karunya, God blessed me both spiritually and in academics. I was able to develop and sharpen my skills here in Karunya. I got an opportunity to do

my internship at a reputed company in Dubai. During my placements in my final year, God blessed me with 2 placements. God blessed me abundantly and made me a blessing to many others here.

► Major Recruiters



Head of the Department

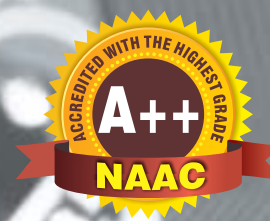
Department of Electronics and Communication Engineering

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ADMISSIONS 2023

Department of ELECTRONICS and COMMUNICATION ENGINEERING



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► About Us

The Department of Electronics and Communication Engineering (ECE) was established in the year 1986 and has a good reputation for academics and research, with well-qualified faculty members. The B.Tech. ECE Program is accredited by the National Board of Accreditation (NBA) in 2019.

Over the course of time, the department has acquired facilities such as the 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 and VLSI Design.

Specialized courses have been offered in collaboration with industries to provide practice-oriented academic and research trainings and also to help students acquire good placement opportunities.

► 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

► Vision

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

► Programs Offered

- **B.Tech.** Electronics and Communication Engineering (ECE) (4 Years FT)
- **B.Tech.** Electronics and Communication Engineering (Spl. in Artificial Intelligence) (4 Years FT)
- **B.Tech.** Electronics and Communication Engineering (Spl. in IoT) (4 Years FT)
- **B.Tech.** Electronics and Computer Engineering (ECM) (4 Years FT)
- **B.Tech.** Electronics and Computer Engineering (Spl. in Artificial Intelligence and Data Science) (4 Years FT)
- **M.Tech.** VLSI Design (2 Years FT)
- **Ph.D.** (Full Time / Part Time)



► Areas of Academics & 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 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

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

► Centres of Excellence and Research

Centre of Excellence in VLSI Design

The Centre of Excellence in VLSI Design was established in the Department in collaboration with M/s Test & Verification Solutions India Pvt. Ltd. in 2018. The Centre enhances the students' technical expertise in VLSI testing & verification. The Centre is used by faculty members and students for internships, projects and placements. The Centre also sponsors a postgraduate program 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 the 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 / Consultancies

The Department of ECE is working on funded projects worth Rs.2.92 crores offered by various government and R&D organizations.

The department also has numerous publications by the faculty and students in reputed journals, with publishers like IEEE, Elsevier, Springer, IET, etc. Further, the faculty members have collaborations with universities and laboratories from Europe, Asia, North America and the Middle East.

► Research Projects

High Power Electronic Devices and Systems

- Defence Research and Development Organization, Govt. of India – 49 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 and AICTE-MODROB - 95 Lakhs

Low Power Wearable Electronics

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

► MOUs Signed / Industry Collaborations

- | | |
|--------------------------------------|-----------------------------------|
| • Samsung R&D India | • Intel Technology India Pvt Ltd. |
| • Tessolve Semiconductors Pvt. Ltd. | • Texas Instruments Pvt. Ltd. |
| • Altair Engineering India Pvt. Ltd. | • Jasmine InfoTech Pvt. Ltd. |
| • EinNel Technologies | • KPIT Ltd. |
| • Entuple Technologies | • M/s. Edgate Technologies |

► Salient Features

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

