

► Add-on / Certificate / Short term Courses

- Python Programming
- Computer Simulation of Electrical Systems
- PCB Design and Fabrication" using Autodesk EAGLE
- Solar PV System Design using PVsyst Software
- Real time Application in Electrical Engineering using LabVIEW
- Skill Development Certification Programme with Hands-on Training Workshop (Phase - 1) on "Embedded Systems"
- Skill Development Certification Programme with Hands-on Training Workshop (Phase - 2) on "Advanced Microcontroller"
- Cloud Computing and IoT
- Hands on training on Python Programming
- Basic Automation
- Basics of PLC
- PLC and SCADA
- Basic AC/DC Drives
- Role of Data Analytics in the Internet of Thinking
- MATLAB programming
- AVR Microcontroller Programming

► Our Distinguished Alumni in Foreign Universities



Dr. N. Manoj Kumar
Postdoc,
City University of Hongkong



Ms. Finna Mathew
MEng, Deakin University,
Australia



Mohanraj Muthusamy
Ph.D. Student
Concordia University,
Canada



Ms. Austin Mathew
PG Degree,
Conestoga College, Canada



Vignesh Laksharam,
MS, Newcastle University,
UK



Akansha Eling
M.S, University of
California

► Our Distinguished Alumni in Industries



Aruna Lawrence
Technical Project Manager,
Borg Warner, Germany



Rony David Mathew
Principal Engineer,
Applied Materials India



A. Vinoliney
Associate Project Engineer,
Hitachi Energy, India



Steve Rexon
System Designer,
Philips India



Lidwin Diana Antony
Senior Engineer,
Schneider Electric, India



B. Shanthibhushan
Associate Technical Specialist,
ABB, India



Mr. Kingson Solomon Samuel
Deputy Executive Engineer,
NLC India Limited, India



Ms. Aswathy Remesh Babu
IC Test Development
Renesas Electronics, UK



Christy C Varghese Abraham
Senior Consultant,
Mercedes Benz R&D, India

► Our Recruiters



Division of ELECTRICAL and ELECTRONICS ENGINEERING

The Head of Division

Division of Electrical and Electronics Engineering

Karunya Institute of Technology and Sciences,

Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India
E-mail: admissions@karunya.edu Web: www.karunya.edu

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Toll Free: 1800 88 99 888, 1800 42 54 300



APPLY NOW

Scan QR Code to Start the Admission Process

► About Us

The Division of Electrical and Electronics Engineering (EEE) was established in 1994 and has equipped with highly commendable facilities and is effectively guided by a set of devoted and diligent faculty team.

The EEE Division has a vision to produce globally competent electrical and electronics engineers for addressing the needs of humanity with ethical values. Electrical and Electronics Engineering is the hub for all latest technological breakthroughs in Smart Grids, Electric Vehicles, Artificial Intelligence, Robotics, Automation, Medical Electronics, Computer Networks, Cyber Security.

The Division has also signed MoA with industries like SIEMENS to establish a Centre of Excellence for "Automation and Drives" which is a Siemens Authorized Training Centre for the entire southern zone of India.

Tie-ups are also available with M/s. SALZER Electronics Limited (which is one of the leading industries in Electrical Protection Device and Modern Sensor Manufacturing in India) and M/s. SELENS Elevators Pvt. Ltd to provide Industrial Certification Training. Students are offered with innovative projects, in plant trainings and internships through this collaboration.

The division has collaborated with E-Vehicle Industries such as RadiForz Ltd, Chennai and e-Royce Motors, Coimbatore to provide required skills for the benefit of students towards Internship, In-plant training, Projects and Placement opportunities.

► Vision

To produce globally competent electrical and electronics engineers for addressing the needs of humanity with ethical values.

► Our Mission

- To empower the students with knowledge in recent trends in Electrical and Electronics Engineering.
- To impart technical skills to resolve industrial problems through innovative teaching learning practices and research.
- To raise professionals, academicians, researchers and entrepreneurs with a passion for solving societal problems.



► Programs Offered

- **B.Tech.** Electrical and Electronics Engineering - 4 Years Full-time
- **B.Tech.** Electrical and Electronics Engineering (AI & ML) - 4 Years Full-time
- **B.Tech.** Electrical and Electronics Engineering (DS) - 4 Years Full-time
- **Ph.D.** Electrical and Electronics Engineering - Full-time / Part-time

► Areas of Academics & Research

- Electric Vehicles
- Smart Grids
- Renewable Energy Technology
- Automotive Electronics
- Fuel Cells
- IoT & Data Analytics
- Bio-signal Processing
- Artificial Intelligence and Machine Learning

► Career Prospects

- Battery Energy Management in Electric Vehicle
- Drone Technology for Agriculture
- Smart City
- Green Energy Technology
- Robotics in Everyday Life
- Smart Vehicle
- Cyber Security
- Machine Learning Technologies for Societal Problems
- Smart Technology for Precision Farming
- Smart Intelligent Buildings
- Data Analytics & Block Chain
- 3-D Printing and Additive Manufacturing
- Medical Devices
- IoT for Industry Applications
- Assistive Devices
- Wearable devices

► Laboratory Courses

- Electric Vehicle
- Electric machines & drives
- Smart Grid & Data Mining
- Sensors and IoT
- Industrial Practice
- Solar and Wind Energy
- Engineering Simulation
- PLC and Automation
- Signal and Image Processing
- Machine and Deep Learning

► Research Activities/ Funding Projects. /Consultancies

The Division of EEE is working on funded on projects worth Rs.2.65 crores offered by various government and R&D organizations. The division 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, United States of America and the Middle East.

► Research Projects

- IEEE 802 series Protocol for Smart Grid Applications. Funded by University Grants Commission, New Delhi with the amount of 29.6 Lakhs.
- Valara MHP (15 kW) in Idukki District of Kerala funded by Ministry of New and Renewable Energy, New Delhi with the amount of 60 Lakhs.
- Enhanced Source Separation Algorithm for Neurological (seizure) Disorders funded by Ministry of Science & Technology, DST, New Delhi with the amount of 47 Lakhs.
- A Novel Tio2 coated aluminium electrode (Tio/AI) for textile dyeing wastewater using real time controlled multichannel electro coagulation process funded by Ministry of Science & Technology, DST, New Delhi with the amount of 37 Lakhs.
- Development of nanocrystalline materials for solid oxide fuel cells working at 600 degree C funded by CPRI, Bangalore with the amount of 27.46 Lakhs.
- Development and Assessment of a Portable Oxygen Concentrator for Patients with Mild Respiratory Failure worth of 19.78 Lakhs.
- BlockChain Powered Smart Energy Meter" by IMPACT Program of IIT Palakkad Technology IHub Foundation (IPTIF) (Technology Innovation in Intelligent Collaborative Systems, DST Government of India.) -10 lakhs.



► MoUs Signed / Industry Collaborations

SIEMENS

Ingenuity for life

Karunya - SIEMENS to Centre of Excellence for "Automation and Drives"

sALZER

M/s. SALZER
Electronics Limited

SELENS

M/s. SELENS
Elevators Pvt. Ltd

► Salient Features:

- Mini- Project-Expo / Symposiums
- Seed money for Innovative student projects
- Students' patents
- Faculty Awards / Recognitions
- EEE Alumnus Visit
- Abroad Internships with stipend through IAESTE
- GATE / IES Coaching
- Wi-Fi connected campus
- Industry Based Training
- Specialization in Electric Vehicles and Grid management, AI/ML and Renewable Energy technologies.
- Summer Internship / In-plant Training / Industry visits
- Student Professional Bodies Chapters like IEEE
- Entrepreneur / Higher Education / Career Guidance Cell

► Why EEE?

- According to TCS head and vice president, the electrical wing in engineering would play a big role in the future world of automation in every industry.
- In India TCS is launching many projects keeping electrical and electronics engineering branches in mind
- US Bureau of Labor Statistics (BLS) predicts that demand for electrical engineers will grow exponentially over the coming decade.
- Urgent need for alternative and sustainable solutions for energy and transport
- Rapid technological growth, a revolution in information and consumer technology and digital media
- Development of advanced networks such as the Smart Grid
- The automated transport revolution
- Advances in medical science, aerospace, robotics and artificial intelligence
- Wide Scope in government jobs such as Power Grid Corporation Limited, NHPC, BHEL, BEL, SAIL, IOCA and NTPC.