

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MARIAN ENGINEERING COLLEGE

Department Brochure 2020-2021

Vision

"To emerge as a Center of Excellence for quality education and research, to grow in pace with rapidly changing technologies and to create Electronics and Communication Engineers who are abreast with the latest technologies and are capable of accepting new challenges."

Mission

- Impart quality education based on the curriculum, contemporary technologies, value based education that helps students groom into a highly competent Electronics and Communication Engineer.
- > Constantly motivate students and faculty members to generate ideas and accept the challenges to provide solution for social needs and to endow competent professionals to undertake research and developmental activities.
- Promote academic growth for students by offering post-graduate and research programs.

Program Educational Objectives

- PEO I: Become proficient engineers with mastery on fundamental, contemporary and advanced concepts, problem solving, programming and design capabilities for successful career or higher studies or research.
- PEO-II: Function effectively in the world of rapidly changing technologies in the broad context of electronics and communication engineering, to develop new products and technologies in service to mankind, using their skills in ethical and professional manner.
- PEO- III: Obtained or made progress for obtaining professional licensure, have good communication skill, practice professional ethics, team- works, made progress towards leadership roles and engage in life-long learning.

Program Specific Outcomes

- **PS01:** An ability to apply the principles and basic concepts in Electronics and Communication in the design and implementation of complex systems by conducting Innovative Experiments.
- **PS02:** To facilitate industrial exposure, conferences and technical fests to motivate for research activities, competitive examinations and mould successful Entrepreneurs.

About the Department

The Department of Electronics and communication of Marian Engineering College was started in 2001 with 60 as intake. Since its introduction, the Dept. has been successful in training more than about 1000 students to become Electronic Engineers of high capability and credibility and to attain B.Tech degree of Kerala University. Several of them are serving in the capacity of eminent Electronic Engineers all throughout the world. This has become possible due to the sincere efforts of many dedicated staff members of the Department. Majority of them have more than a decade of service as teachers. Sustainability and sincerity of staff members paved the way for attaining good results in the Kerala university examinations, including few high ranks in it. In placements also ECE department excelled and the alumni students are in the top positions of many industries and research institutions. We, the staff members of ECE Department, Marian Engineering College promise that we will continue our sincere efforts and with the blessings of almighty God, will achieve more prosperity and success in the coming years also.

Department Highlights

Experienced Faculty with more than 10 years of experience.

Staff List	Designation	Years of Experience
Dr. M. Sasikumar	Emeritus Professor	45 years
Ms. Vinitha B Elza	HOD	19 years
Ms. Ramola Joy P.	Asso. Professor	16 years
Ms. Subha P S	Asso. Professor	12 years
Dr. M. Manoj	Asso.Professor	5 years
Mr. Evankumar G	Asst. Professor	14 years
Mr. Y. V Glastin	Asst. Professor	13 years
Ms. Simi M S	Asst. Professor	14 years
Ms. Nurul Hidaya	Asst. Professor	16 years
Ms. Dhanya Mathew	Asst. Professor	11 years
Ms. Minnu Jayan C	Asst. Professor	14 years
Ms. Sreena V G	Asst. Professor	11 years
Ms. Sony S	Asst. Professor	11 years
Ms. Ann Mathew	Asst. Professor	11 years
Ms. Hema S. Mahesh	Asst. Professor	10 years
Ms. Mary Sunitha	Asst. Professor	14 years
Ms. Preetha S L	Asst. Professor	13 years

MoU with Accubits Technologies

A Memorandum of Understanding had been signed between Accubits Technologies and Marian Engineering College through Department of Electronics & Communication on 27th lan. 2021. The Department of ECE, has established a Centre of Excellence in AIML with the objective to provide training, facilitate self-learning and enhance skills of students thereby bridge the gap between Industry and Academia. The In-Charge of Centre of Excellence is Dr.M.Manoj, Prof.,ECE

State of Art Lab Facilities







DIGITAL SIGNAL PROCESSING LAB





PROJECT - 2020







Security Tag for Infants

Motorcycle Blind Spot

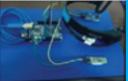




IOT Based Power Generation and Management

Automatic Waste Segregation Special Companion for and Monitoring System Speech Impaired







In-Walk Care

Neuro Voice

Robotic Leg using Hand Gesture Control





ECE Placed Graduates (2015-2019)



Gopika Unni

Quest Global



Roshan Navas S Software Engineer Systems Engineer Systems Engineer

Infosys



Shilpa R



Alan Mathew



Software Engineer









Infosys



Aiswarya Suresh Anoop Mathew Sessy Mary Fernandez Software Engineer

Project Manager Aptara Learning

Syed Ryzwan RM ESI

Software Engineer Soft IBS Software Pinn



Fathima Lal Gouri Sadish Systems Engineer Systems Engineer Systems Engineer Infosys Infosys Infosys







Feba Mary John Farzana Ismail Test Engineer Infosys

K.Srihitha Rao



Archa Mohan Systems Engineer Infosys



Priya Jose



IBS Software





Jeneesha B Infosys

ECE Placed Graduates [2016-2020]







IBS Software











Alana Retnakumar

Career Labs



Whitehat Junior





Infosys



Sanu Shaji Alana Retnakumar

ECE Placed Graduates [2017-2021]











UST Global





ripa Binoy Sooraj S Gayathri G R Nikhil Robinso Speridian Speridian, Ospyn CSS Corp Pvt Ltd Evobi Automations

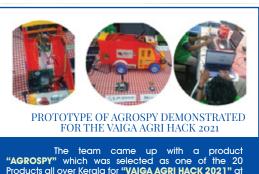
CENTER OF EXCELLENCE IN AI & ML Department of ECE MARIAN ENGINEERING COLLEGE, KAZHAKUTTOM



 Centre of Excellence in AI & ML. CEO_AIML was inaugurated on 24th November, 2020 by ShameerThaha, Global CSE & CEO, Accubits, Middle East/Africa, Building AI Blockchain Tech.

STUDENTS' ACHIEVEMENT OF 20-21

ANISH M.V PRANAV P. NIKHIL ROBINSON



The team came up with a product "AGROSPY" which was selected as one of the 20 Products all over Kerala for "VAIGA AGRI HACK 2021" at St. Thomas College, Trissur. After 36 hours of challenging technological competition, they were selected for the final round which was out of 10 best products. This product was a stimulus for many Small scale Entrepreneurs and was highly appreciated by the invited guests of the hackathon.

"AGROSPY" is an IoT based system that can be

"AGROSPY" is an IoT based system that can be placed along with the agricultural commodities in transit to record environmental parameters along with GPS values for subsequent interpretation using a web UI.



The team of 5th semester students of ECE, proposed an idea "Riderzpal", an application which is useful for Riders across India. They won seed money of Rs Lakhs through Idea Grant Scheme of Kerala Start Up Mission, and were Won among 40 finalists teams selected by Government under this scheme.

2020-2021 All Activities

- "TRAIN THE TRAINERS- FDP ON FUNDAMENTALS OF AI & ML Organized on 4th and 5th March, 2021 by the Department of ECE.
- Workshop by Mechatronics Club For S5 ECE students From 18th to 29th January, 2021
- On 9TH MAY, 2021 an Expert Talk on "General Awareness on Telecom Industry", was organized for S2 (2020-2024) and S4 (2019-2023) ECE students. The Session was handled by: Mr.Dilshad S., Sub Divisional Engineer, BSNL.
- An Expert Talk on "Nurture the Entrepreneur in You" for S1, S3 ECE students, on 29th January, 2021 Resource Person-**Dr. M. Manoj**, IEDC Nodal Officer, Marian Engineering College.
- Tips for Technical Writing and Effective Presentation, an event organized by ECE was handled by Ms.Sreena V.G (AP,ECE) and Ms.Minnu Jayan C (AP,ECE) on 24th October, 2020.

- "Online Workshop on Blockchain Technology and Application", with KBAIC (KERALA BLOCKCHAIN ACADEMY INNOVATION CLUB) on 26th Feb, 2021.
- Inaugural Ceremony of Electronics Engineering Association on 26th September, 2020
- Expert Talk on Mechatronics For S1 ECE students On 3rd February, 2021 Resource Person-Mr. Maneesh T., (AP, ME), Faculty-In-Charge., Mechatronics Club, Sneha A. (Student Coordinator-Mechatronics Club)
- Expert Talk on "Introduction to Machine Learning" for S3,S5,S7 ECE students on 12th December, 2020 Resource Person- **Ms. Sreena V.G**, Assistant Professor in ECE, Marian Engineering College.
- Workshop on proteus Design Suit 8.0 on 19th September, 2020.The Resource person was Ms.Archa Mohan (Alumnus 2015-2019 ECE), Systems Engineer, Infosys.

On 14th August, the
Department of
Electronics and
Communication, had
organized an
International
Conference through
Google Meet, on
"Novel Changes in
Systematic
Electronics"







EINNOVATOR

THE DEPARTMENT E-INNOVATOR ACTIVITIES





State of Art Systems

Where does the industry Stand?

Core Areas of Competencies Required By the Outside World



Integrals

Networking Power Electronics & Instrumentation

Solid State Devices VLSI

Electronic Circuits Antenna and Wave Systems

Signals and Systems
Analog Integrated Circuits
Computer Organization

Embedded Systems
Microwave and Radar
Optical Communication

Digital Signal Processing Control Systems
Electromagnetic Sytems Nano Electronics

Processors and Controllers Secured Communications



Some of the important positions that ECE Engineers can serve



Why is Electronics & Communication Engineering THE RIGHT CHOICE?

- * Electronics and Communication Engineering is a promising growth-driven stream, an adequate knowledge in the field when amalgamated with specific skill set, qualifies the individual for a wide range of entry-level openings.
- Electronics and Communication engineers, expertise in managing large scale research, conceptualizing, designing, developing and testing of the electronic equipment used in latest communication devices and other handy technological equipment, such as smartphones, tablets, processors, smart wrist watches, smart LED TV's, etc.

THIS HAS ONLY LED TO THE SURGE IN THE DEMAND OF ELECTRONICS & COMMUNICATION ENGINEER.

- Skills of ECE engineers in planning, executing the testing process, framing of the system layouts, and delivering the end product in an impeccable way enhance their market value.
- This means that as an aspiring student of ECE, candidates need to ensure they select the right course in Electronics & Communication Engineering, in which they have interest and which offers better career options in the future.

FUTURE SCOPES OF ELECTRONICS & COMMUNICATION ENGINEER

Market Sectors



