



ABOUT THE INSTITUTION

College of Engineering Perumon was founded in the year 2000 by the Co-operative Academy of Professional Education (CAPE), which was established by the Government of Kerala. The college offers five undergraduate programs (ME, ECE, EEE, CSE & IT) and one M.Tech course (Computer and Information Science) in affiliation with APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY (KTU) and approved by All India Council for Technical Education (AICTE).

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering (NBA accredited during 2019-21) was established in the year 2000 offering four year B.Tech degree program in Electrical and Electronics Engineering. It is provided with good infrastructural facilities like well equipped laboratories, library, well qualified and experienced faculties and technically sounded supporting staffs

ORGANISING COMMITTEE

Patron
Dr.R Sasikumar
(Director CAPE)

Chairperson
Dr. Z. A. Zoya
(Principal)

Convenor
Dr. Bindu S J (Associate Professor & HOD)

Co ordinators
Mrs. Saritha.M(Assistant Professor)
Mob: +919526018778

Mrs. Jasmi M S (Assistant Professor)
Mob: +919497361252

HOW TO APPLY

The applicants should fill the google registration form link provided below

<https://forms.gle/7gYySZM2xkfSP4my9>

and upload their duly sponsored certificate, in the specified format in the google form provided on or before 04/03/2021.

Confirmation mail for selected participants will be send before 05/03/2021

Any queries can be mailed to
mtpeee@perumonec.ac.in

REGISTRATION FEE

No registration fee is charged from the participants

Online Faculty Development Programme

On

“Modern Trends in Power Electronics”



Sponsored by TEQIP- II

(8th - 12th March 2021)

Organized by

**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS
ENGINEERING
(NBA Accredited 2018-2021)**



**COLLEGE OF ENGINEERING
PERUMON**

(Under CAPE, established by Govt. of Kerala)

Perinad P.O. Kollam. Kerala. Pin 691601

www.perumonec.ac.in

VISION AND MISSION OF THE DEPARTMENT

VISION

To be the innovative global leader in technical education and research by providing excellent education in Electrical and Electronics Engineering.

MISSION

To produce high quality professionals in Electrical and Electronics Engineering who have serious concerns on engineering fundamentals, technological advancements, professional ethics and social value system.

PEOs - PROGRAM EDUCATIONAL OBJECTIVES

- Our graduates will have sound foundation in Electrical and Electronics Engineering to analyze, identify and solve real time problems in engineering. They will also have effective communicative skills to address social issues.
- Our graduates will work efficiently in a team, possessing leadership skills along with professional ethical attitude, and will serve the society in an environment friendly way.
- Our graduates will become entrepreneurs; they will contribute to research in multidisciplinary areas and will resort to lifelong learning for sustainable developments.

PSOs - PROGRAM SPECIFIC OUTCOME

Our graduates will be able to

- Provide fundamental knowledge for the design and analysis of Electrical machines, Control systems, Power Electronic systems and Power systems.
- Exhibit technical capabilities to promote nonconventional energy systems and will be conversant in various technologies of e-mobility
- Demonstrate proficiency in the use of modern engineering softwares, to design and analyze Electrical and Electronics systems.

CERTIFICATE

E-Certificate will be issued to participants who have attended all sessions of FDP.

ELIGIBILITY CRITERIA

The program is open to faculty members (EEE/ECE/EIE branch) of AICTE approved engineering colleges, M.Tech scholars specialization in EEE and personals from reputed industries.

DATES TO REMEMBER

Last date for receipt of applications: **04/03/2021**

Intimation of selection: **05/03/2021**

Confirmation by participants: **05/03/2021**

COURSE OBJECTIVE

This course will provide an essential background about traditional power electronics and motor drive circuits with recent innovative energy conversion technologies. In recent years, power electronics technology have played an important role for different applications such as renewable energy systems, electric vehicles, pulsed power generation and biomedical. Power converters in power electronics are essential for generating electrical power energy in various ways. The development of advanced power converters is necessary for various applications.

COURSE OUTLINE

- ❖ Advancements in DC-DC converters
- ❖ Power electronic controls of converters for grid connected SPV power plants
- ❖ Advanced PWM techniques for power converters.
- ❖ Multilevel inverters
- ❖ Power electronic converter application for electric vehicle
- ❖ Industrial developments in the area of power electronic technology

RESOURCE PERSONS

Sessions will be handled by eminent personalities from higher learning institutions and experts from industries.