

Faculty Development Programme
on
**Modeling and Simulation of
Power Converters : from
Theory to Practice**
(16-21 December 2019)

Sponsored by
**Director of Technical Education
Govt. of Kerala**

Organised by
**Dept. of Electrical Engineering
College of Engineering Trivandrum
Thiruvananthapuram
Kerala - 695 016
www.cet.ac.in**



**Co-ordinators
Dr. R. M. Shereef
Dr. Dinesh Gopinath**

Registration Form

Name :

Designation :

Official Address :

Mobile No. :

e-mail :

Qualifications :

Experience :

Food Preference : Veg / Non-Veg

Declaration

I hereby declare that the information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the programme. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the

co-ordinators sufficiently in advance, in case I am unable to attend the course.

Place:

Date: Signature of the applicant

Sponsorship Certificate

Certified that Mr./Ms./Dr.

is an employee of this institution and is hereby sponsored for the FDP on *Modeling and Simulation of Power Converters : from Theory to Practice* at College of Engineering Trivandrum during 16-21 December 2019. If selected, he/she will be permitted to attend the course.

Place:

Date: Name & Signature of the Sponsoring Authority

(Seal of the Institution)

Address for Correspondence

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- **College of Engineering Trivandrum**

College of Engineering Trivandrum was established in 1939 as the first engineering college in the then Travancore state. Over the years, the intake of students increased and as of now with eight full-fledged departments offering eight undergraduate, 27 postgraduate and doctoral programmes under the APJ Abdul Kalam Technological University, the College has around 4500 students, 311 teaching staff and 290 non-teaching staff. According to NIRF ranking College of Engineering Trivandrum is placed in the 71st position.

- **About the Department**

Department of Electrical Engineering began its operations along with the establishment of the college in 1939. The department offers an undergraduate B.Tech. programme in Electrical & Electronics Engineering and four M. Tech. programmes (Control Systems, Power Systems, Electrical Machines and Guidance & Navigational Control). The department is recognised as a QIP centre for Ph. D. programme by the Ministry of Human Resources Development.

- **Objectives of the Programme** This course aims to give a thorough knowledge and understanding about both theory and mathematical background required

for simulation of complex electrical circuits such as power electronic converters. Starting from modeling and simulation of simple linear RL, RC and RLC circuits, the course will develop into modeling and simulation of nonlinear power electronic converters. The course will give an understanding on the selection of simulation algorithms, limitations of the simulation tools and the basic methodology of developing simulation models for specific situations.

- **Course Content**

- Theory of simulation and simulation parameters
- Essential basic mathematics required to solve both algebraic and linear differential equations
- Modeling and simulation of simple electric circuits
- Modeling of power electronic converters and electrical machines.
- Modeling methodologies and their application in specific contexts.
- Typical Simulation Tools and settings

- **Resource Persons** The resource persons are faculty members from College of Engineering Trivandrum and other reputed academic institutes.

- **How to Apply** No. of seats is limited to 30. Applications are to be submitted online through the link "Training Programmes" in the website of Director of Technical Education, Kerala on or before 11 December 2019. The selected candidates will be intimated through e-mail. Application link : <http://admissions.dtekerala.gov.in/tpms/>

- **Eligibility** Faculty members from AICTE approved Engineering Colleges / Polytechnic Colleges, working professionals from industry, and research scholars are eligible to apply.

- **Fee** There is no fee for participants from Government/Aided/Govt. controlled institutions. Fee for faculty from private self financing institutions and research scholars is Rs. 1000/ and that for participants from industry is Rs 5000/.

- **TA/Accommodation** Participants have to make their own arrangements for boarding and lodging. TA and lodging charges of the participants will be disbursed as per the existing norms of Government of Kerala.

- **Important Dates**

Last date of application	11-12-2019
Intimation of selection	12-12-2019
Confirmation of participation	13-12-2019