Organised by Department of Electrical Engineering, Rajiv Gandhi Institute of Technology, Kottayam

AICTE Sponsored Faculty Development Programme (Online) on Renewable Energy and Power Electronics for Industrial Drives Applications – Phase 1
15th to 21st April 2021

About the Institution
Rajiv Gandhi Institute of Technology, Kottayam, a technical institution under the Government of Kerala, started functioning in the year 1991. The Government started this institution with the view of making it a centre of excellence for post-graduation and research studies. Over the years, the institution has emerged as one of the premier institutes for technical education in the state with good infrastructure and a team of dedicated faculty. The Institute currently offers 6 undergraduate and 8 post graduate programmes, Ph. D and MCA programmes. The institution got accredited by NBA in 2007 and 2016. The accreditation was extended for 3 Years again in 2019 for all B.Tech programmes. The institution is an approved research centre under Quality Improvement Programme (QIP) and AICTE Doctoral Fellowship programmes (ADF). All programmes affiliated to APJ Abdul Kalam Technological University, Kerala (KTU). Its alumni are spread all over the world as scientists, engineers, academicians, researchers and administrators.

About the Department
The Department of Electrical Engineering started in the year 1991. The department currently offers a B.Tech programme in Electrical and Electronics Engineering and M. Tech programmes in 1. Industrial Drives and Control 2. Power Systems and Renewable Energy. Department is also a recognised research centre for doctoral programmes under QIP and ADF.

Vision
Be a centre of Technological excellence in Electrical and Electronics Engineering for the betterment of the society.

Mission
• To bestow high quality education through excellence in its faculty and facilities.
• To transform young minds into competent full-fledged professionals.
• To nurture ethical values and invoke a passion to serve the society.

Course Description
This is the first phase of a 4-phase course on Renewable Energy and Power Electronics for Industrial Drives Applications. The course aims at introducing the basic power electronics required in energy conversion from renewable energy as well as utility for various applications in drives. The course is designed in such a way that aspirants from the field of electric drives, power electronics, and renewable energy get acquainted with the basics as well as the latest trends through online lectures, case studies, and live demonstrations.

Important Dates
Last Date for submitting online application : 10.04.2021
Intimation of selection : 11.04.2021

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Course Content

1. Converter topologies, Operating modes, Case study
2. Inverter topologies and modulation schemes, Case study of Automotive grade Inverter
3. Grid connected single phase PV inverter, Case study
4. Electric Drives - PMSM, BLDC and IM
5. Real time control of drives

Resource Persons

1. Dr. Sivaprasad A., Department of Electrical Engineering, SRM University
2. Dr. Nithin Raj., Department of Electrical Engineering, GEC, Wynadu
3. Dr. Pratheesh K. J, Assistant Project Manager, Power Electronics Division, SFO Technologies, R&D
4. Dr. Sandeep J., Department of Electrical Engineering, NIT Calicut
5. Dr. Deepthi S. Nair, Department of Electrical Engineering, NIT Calicut
6. Dr. Jose Titus, Department of Electrical Engineering, RIT, Kottayam
7. Dr. Ravishankar A N, Department of Electrical Engineering, Christ College of Engineering, Irinjalakkuda
8. Mr. Stephen David Samuel, Engineer Power Electronics and Control, Entuple Technologies
9. Ms. Jeena John, Engineer Power Electronics and Control, Entuple Technologies

Co-ordinators

Dr. Abhilash T. Vijayan
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Who Can Apply

This AICTE sponsored online FDP is open to faculty members of AICTE approved institutions, research scholars and personal from industries all over the country.

As per AICTE guidelines no registration fee will be charged from the participants.

Participants are required to submit a Sponsorship Certificate signed by sponsoring authority which can be uploaded in the registration form or send via email to coordinators.


Course Certificate

A test shall be conducted by Project Monitoring Committee (PMC) at the end of the FDP and the certificates shall be issued to those participants who have attended all the sessions of the FDP and have qualified in the test. The number of participants will be limited to 100 for each Phase. Online meeting link will be sent to Whatsapp contact / Registered email.


Patron: Dr. Jalaja M J, Principal, RIT

Advisory Committee

Dr. Jalaja M J, Principal, RIT
Dr. Manju B, Professor & HoD, Department of EEE, RIT
Prof. Umesh A. C, Professor & HoD, Department of ECE, RIT
Dr. Abhilash T. Vijayan, Associate Professor Department of EEE, RIT
Dr. Sunil Kumar P. R, Professor Department of EEE, RIT