ABOUT GOVT. ENGINEERING COLLEGE THRISSUR

The Government Engineering College Thrissur, one of the premier technical institutions in the country, had its modest beginning in the year 1957. At present, the College has strength of more than 3000 students and 500 staffs including 225 faculty members. The institute is accredited by NBA, certified by ISO and ranked 156th in position in Engineering Institutions in India among colleges participated in the National Institutional Ranking Framework (NIRF) Ranking 2021.

ABOUT THE DEPARTMENT

The Department of Electrical Engineering has been in existence since the beginning of this institution. The objective of the Department is to impart quality education in various areas of Electrical and Electronics Engineering. The Department offers Programs of B.Tech. in Electrical and Electronics Engineering (Two batches 120 students intake) and two M.Tech. Programs in Power Systems and Power Electronics with an intake of 18 students in each discipline. Our department is an approved research and QIP Centre for acquiring Ph.D. under KTU. The department has been accredited by NBA-AICTE.

ADDRESS FOR COMMUNICATION COURSE COORDINATORS

Dr. Joseph K. D.
Associate Professor,
Department of Electrical Engineering.,
Government Engineering College,
Thrissur- 680009

Mobile: +91 9496291322
Email: josephkd@gectcr.ac.in

Dr. Suresh K.Damodaran
Associate Professor,
Department of Electrical Engineering.,
Government Engineering College,
Thrissur- 680009

Mobile: +91 9447002990
Email: suresh@gectcr.ac.in

IMPORTANT DATES

Last date for online Registration	:	12th February , 2022, Saturday
Intimation of selection by e-mail	:	14th February , 2022 Monday
Course duration	:	21th to 25th February 2022 Monday to Friday

AICTE
Training and Learning
(ATAL) Academy

Sponsored
Five Days Online Faculty Development Program
on
ELECTRIC CHARGING STATION FOR VEHICLES

21st - 25th FEBRUARY 2022
(Online)

योगः कर्मसु कौशलम्

Organized By
DEPARTMENT OF ELECTRICAL ENGINEERING
GOVERNMENT ENGINEERING COLLEGE,
THRISSUR- 680009

Coordinators
Dr. Joseph K.D.
Dr. Suresh K. Damodaran

ABOUT THE COURSE

Inservice training of the teachers is essential for up-gradation of their knowledge and development of professional skills and therefore plays a vital role in the development of technical education.

The FDP titled "Electric Charging Station for Vehicles" is a very relevant topic of interest for faculties, research scholars and industrial persons working in the area of charging topologies for Vehicles. The familiarization of various power electronics and control strategies will also help to implement hardware research projects.

COURSE OBJECTIVES

- Give an insight to various charging topologies for electric vehicles.
- Familiarize recent advancement in power electronics converters and its applications.
- Acquire the basic concepts of DC – DC Converters, Inverters and Grid connection.
- Provide practical aspects of charging stations and various control strategies.

COURSE CONTENTS

- Recent advancements in charging circuits for electric vehicles.
- Basic Power electronics and its control techniques.
- Grid connection of inverters in off mode duration.
- Tapping of renewable power and conversions for electric vehicles.
- Application of power electronics to charging station.
- Design of charging station from industrial point of view.

ELIGIBILITY

Faculty from AICTE approved Engineering Colleges from the disciplines of Electrical Engg, Electronics & Communication Engg, Applied Electronics, Mechanical Engg and allied branches are eligible to apply for the course. Minimum number of participants is 50.

DURATION & VENUE (Online Mode)

The duration of the course is 5 days. It will commence on Monday, 21st February 2022 at 9.15 AM and end at 4 PM on Friday 25th February 2022. The control center of the course will be Maxwell Hall, Department of Electrical Engineering, Government Engineering College Thrissur.

REGISTRATION DETAILS

There is no registration fee, interested candidate can register (on or before 12 th February, 2022 Saturday) using the link:

http://atalacademy.aicte-india.org/login

RESOURCE PERSONS

- **Prof. (Dr.) B. G. Fernandes**
  Dept. of Electrical Engg.,
  IIT Bombay
- **Dr. Vishnu Mahadeva Iyer**
  Dept. of Electrical Engineering,
  IISc. Bangalore
- **Dr. R. Sudharshan Kaarthik**
  Dept. of Avionics,
  IIST Thiruvananthapuram
- **Dr. Anjeet Verma**
  The University of Sheffield, UK
- **Dr. Radha Kushwaha**
  Khalifa University Abudabi UAE
- **Dr. Gururaj Mirle Vishwanath**
  Dept. of Electrical Engineering,
  IIT Kanpur
- **Dr. Anushree Ramanath**
  Enphase Energy,
  California, USA
- **Prof. (Dr.) Krishna Vasudevan**
  Dept. of Electrical Engg., IITM,
  Chennai
- **Prof. (Dr.) Hiralal M. Suryawanshi**
  Dept. of Electrical Engg, VNIT,
  Nagpur
- **Dr. Shreelakshmi M. P.**
  Dept. of Electrical Engineering,
  NIT Calicut
- **Er. Vijayan Nandalan**
  Former Scientist, ISRO, TVPM
- **Er. C.M. Varughese**
  CEO, M/S Ever Green Energy
  Technologies, Kerala, India
- **Prof. Subadhra P. R.**
  Dept. of Electrical Engg,
  Govt. Engineering College
  Thrissur
- **Er. Sreedevi M.L., Scientist E**
  CDAC, TVPM

Schedule of the FDP on Electric Charging Station for Vehicles from 21st to 25th February 2022 (online)			
Day	Session 1: 9.15 - 11.15 AM	Session 2: 11.15 AM -1.15 PM	Session 3: 2.00 - 4.00 PM
21st Feb. 2022	Inauguration and Keynote Address	Application of Power Electronics to Charging Station	Advances in EV Technologies
	Prof. (Dr.) B. G. Fernandes Dept. of Electrical Engg. IIT Bombay	Dr. Shreelakshmi M. P. NIT Calicut	Er. Vijayan Nandalan Former Scientist ISRO Thiruvananthapuram
22nd Feb. 2022	Fast charging station power delivery for Electric Vehicles	E-Mobility and Smart EV Charging	Art of Living
	Dr. Vishnu Mahadeva Iyer Dept. of Electrical Engg. IISc. Bangalore	Er. C.M. Varughese, CEO, M/s Ever Green Energy Technologies, Ernakulam	Prof. Subadhra P. R. Dept. of Electrical Engg. Govt. Engineering College Thrissur
23rd Feb. 2022	Integrated battery chargers for Electric Vehicles	Renewable Energy Based EV Charging Infrastructure with Power Quality Improvement	DC-DC converter for DC Microgrid and Electric Vehicle
	Dr. R. Sudharshan Kaarthik Dept. of Avionics IIST, Thiruvananthapuram	Dr. Anjeet Verma The University of Sheffield, UK	Prof.(Dr.) Hiralal M. Suryawanshi Dept. of Electrical Engg. VNIT, Nagpur
24th Feb. 2022	Modeling and Simulation of Renewable Energy Systems and Electric Vehicles	Improved Power Quality Battery Chargers for Light Vehicles	Inverter Design: Concept to Implementation
	Dr. Anushree Ramanath Senior Systems Engineer Enphase Energy ,California, USA	Dr. Radha Kushwaha Khalifa University Abudabi, UAE	Prof. (Dr.) Krishna Vasudevan Dept of Electrical Engg. IIT Madras
25th Feb. 2022	Estimation and Optimum Sizing of Battery for Electric Propulsion: Case studies of Electric Vehicles and Houseboats	EV Challenges : Power System Perspective	Feedback/ Test/Valedictory
	Er. Sreedevi M. L. Scientist E, PEG, CDAC, Thiruvananthapuram	Dr. Gururaj Mirle Vishwanath Dept. of Electrical Engg. IIT Kanpur	Dr. Joseph K.D. and Dr. Suresh K. Damodaran, Coordinators