

Registration



Course Registration is free for all participants.

Seats are limited(only50) and the participants are selected by organizers on first come first serve basis.

Interested faculty members/ industry personal, Research Scholars (phd or Masters students) should register through Link given below,

<https://forms.gle/Qqi5maRUHXGEiCKNA>

On completion of the course an objective/quiz based assessment of all participants will be done. After successful completion and satisfactory performance the participants will be issued a digital certificate

Participants willing to participate in this online faculty development program should have the provision of Laptop/Desktop/Smart phone with good quality internet connections and other audio visual facilities, as required for online training.

Last date of Registration: 30th November, 2020

Confirmation of participation to selected participants will be given through E-mail by 5th December, 2020

The course will be arranged in online mode and the platform for online interaction will be informed to participants via email.

Note : It is required to have MATLAB (Minimum 2014 version) installed in the system (PC or LAPTOP) of participants for the hands on session practice for FDP.

Resource Persons



Sr. No	Name of the Expert	Organization
01.	Dr. Jayesh Deshkar (Principal)	V.V.P. Engineering College, Rajkot.
02.	Dr. Hemanshu Pota	The University of South Wales, Canberra, Australia
03.	Dr. Ashutosh Giri	GEC Bharuch
04.	Dr. Debapriya Das	IIT Kharagpur
05.	Dr. R. K. Singh	IIT BHU
06.	Dr. Saeed Peyghami	Aalborg University, Denmark
07.	Dr. Subham Sahoo	Aalborg University, Denmark
08.	Dr. Sabha Raj Arya	SVNIT, Surat
09.	Dr. Sachin Rajani	V.V.P. Engineering College, Rajkot.
10.	Dr. Chinmay Jain (Industry Expert)	Shakti Pumps (India) Ltd., Indore
11.	Dr. Varsha Shah	SVNIT, Surat
12.	Dr. Vinod Tejwani	Government Polytechnic, Jamnagar
13.	Dr. Amit Jain	IIT Delhi
14.	Dr. Priyesh Chauhan	IITRAM, Ahmedabad

Organizers



Chief Patron

Prof. Anil D. Sahasrabudhe
Chairman, AICTE

Prof. (Dr.) Navin Sheth
Vice Chancellor GTU

Hon. Shri Lalitbhai Mehta
Managing Trustee, VVPEC

Patron

Dr. Jayesh Deshkar
Principal, VVPEC

Coordinator

Dr. Chirag K Vibhakar
Professor and Head
Electrical Engineering Department
VVP Engineering College, Rajkot

Organizing Committee

Asst. Prof. Shilpa Kathad
Asst. Prof. Kishan Bhayani
Asst. Prof. Hardik Pandya
Asst. Prof. Anoop Budhrani

Contact Person

Asst. Prof. Shilpa Kathad
Shilpa.kathad.el@vvpedulink.ac.in
Contact No. 9979857677

JOINT AICTE GTU ONLINE FACULTY DEVELOPMENT PROGRAMME

A Faculty Development Program on
**Renewable Sources based
distributed power generation,
applications and control
including Energy Storage Devices**

**7th December, 2020 to
12th December, 2020**



Organized by
Electrical Engineering Department
VVP Engineering College, Rajkot

About the Institute



Vision

To be an exemplary institute transforming students into world-class professionals with human values.

Mission

Providing, nurturing and maintaining academic environment for strengthening technical foundations of students along with ever-learning attitude for sustainable solutions of real-world problems.

Fostering innovation & creativity, team-spirit and entrepreneurial leadership through various activities for overall development of students.

Imbibing human values through transparent and accountable governance in all aspects.

Vyavasayi Vidya Pratishthan is established by Rajkot Nagarik Sahakari Bank Ltd. to promote quality education in various technical fields. The trust was founded in 1996 with the objective of meeting technical educational needs of Gujarat. The trust prides itself of establishing the First engineering college in Rajkot, the central location of Saurashtra and Kutch region. V.V.P.Engineering College is a self financed institution affiliated to Gujarat Technological University, recognized by All India Council for Technical Education(AICTE),New Delhi and the Government of Gujarat. It has a specially designed on 30 acres of land with spacious building providing an adequate infra-structural facility set up in a beautiful natural surroundings. It is landscaped with enlivened architecture that creates conducive environment of learning. The campus is located 10 Km on Kalawad Road, the west of Rajkot, with transportation and conveyance facilities.

About Electrical Engineering Department



Vision

To illuminate as a Renowned Electrical Engineering Department transforming students into Proficient electrical engineers with human values.

Mission

Providing excellent blend of theoretical and Practical knowledge for enhancing technical proficiency of students to address real world problems with life-long learning attitude.

Nurturing young minds to focus on communication skills, entrepreneurial pursuit, team spirit and leadership qualities to sustain in the global market.

Inculcating professional ethics with human values in students.

The Electrical Engineering Department established in 1996, is one of the most dynamic departments of Institute. The department is having team of experienced and well qualified faculties who are very dedicated to teaching and also involved in up-gradation of knowledge. Our faculties work round the clock for enhancement of technical and soft skills of students. We have hardworking and very supportive laboratory technical staff. We strive to empower students with fundamental knowledge, entrepreneurial pursuit, leadership quality, complex problem solving skills and communication skills. Our main aim is to focus on holistic growth and overall development of students. We have well equipped laboratories and software tools to provide practical exposure to students. To empower our students with various skills and to make them industry ready our department organizes various activities and motivates students in various ways. Our Students showcase their talent in various sports and intercollegiate technical events and win prizes. Our Dynamic Engineers are working in well reputed industries, private and public sectors, Academic Institutions in India and abroad.

About FDP



Distributed Generation plays a vital role in power systems. Power quality issues arise due to overlap between two technologies. Disturbances and harmonics affect the power quality, which are mainly caused by the addition of Distributed Generation (DG) on the existing power system network. This FDP is planned to discuss these issues and mitigate them. Modern advancement in Renewable energy sources are going to be covered in this FDP which will give idea to Researchers about various application of distributed generation and its control techniques. There is huge scope of research and development in the areas of DG, Micro Grid, and Remote Power Applications. After successful completion of proposed faculty development program participants will get new idea and practical approach towards DG issues and will get concern about control techniques to improve power quality. Hands on sessions in MATLAB HOMER and PV SYST are planned to give maximum benefit to Young Researchers, Faculty Member and Industry Delegates. The objective of the training program is to introduce the basic elements and procedures of Distributed Generation and energy management in tune with the industrial environment.

Course Contents



- Solar Energy and Wind Energy based power plants
- Introduction to power quality, Microgrids and Power Quality issues in DG
- Overview of Distributed Generation and its applications
- Micro-grid for Remote power applications
- UPQC application in Distribution System
- Voltage and frequency control of three phase SEIG in wind generation based distribution system
- Hybridization of solar wind systems
- Power quality Issues and improvement techniques in Micro grids
- Wind based generations in DG and its issues
- Series Active Filter application in distribution system
- Battery Storage devices
- Ultra Capacitor Storage Devices
- Hands on practice sessions on MATLAB, HOMER / PV SYST