

About the Institute

Government Engineering College, Palanpur was established in the year 2009, with an objective of imparting higher education in various fields of engineering and technology. The institute is affiliated to Gujarat Technological University, Ahmedabad and administrated by Directorate of Technical Education, Gujarat State, Gandhinagar. At present the Institute offers undergraduate engineering programs in Electrical, Civil, Mechanical and Mining branches. The institute ensures all-round development of students through various student centric activities like counselling and mentoring, projects, virtual lectures and labs, cultural programs, tech-fest, Startups, webinars, industrial visits etc.



About the Department

The Department of Electrical Engineering has been an integral part of the institute, since 2009. At present the department has an intake of 30 students for under graduate program. The department is working with the primary objective of to develop competent electrical professionals for providing sustainable engineering solutions to the society. The department is equipped with state-of-the-art laboratories and well-qualified faculty members. We are committed to give our students an environment where they can develop critical thinking and problem-solving skills and explore themselves for providing sustainable solution to the variety of engineering problems.

About ATAL Academy

The primary objective of the ATAL Academy is to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training. The Academy stresses up on empowering technical teachers and techniques using Information and Communication Technology. It also aims at utilizing SWAYAM platform and other resources for delivery of the trainings.

About FDP

The fossil fuel-based energy resources are depleting drastically in the world and expected to be exhausted in the coming future. Enormous use of these resources has raised concentration of greenhouse gases in the atmosphere significantly. The use of renewable energy (RE) sources on large-scale can significantly reduce environmental degradation and helps preserving the conventional energy sources. This FDP focuses on assessment and utilization of various RE sources. It will bring a positive transformation among the participants and enable them to develop competencies for implementing various RE sources for variety of end-use applications. The following topics will be covered in this FDP.

- **Potential assessment of solar, wind, bio-energy and small hydropower resources**
- **Stand-alone application of RE sources**
- **Utilization of different RE sources**
- **Various configurations of RE-based system**
- **Development, policies and barriers in RE Utilization**
- **RE Policies and Regulations**

One Week Online Faculty Development Program

on

“Assessment and Utilization of Renewable Energy Resources”

September 13th – 17th, 2021

Sponsored by



Organized by

**Department of Electrical Engineering
Government Engineering College
Palanpur, Gujarat**

PATRON

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Who Can Attend?

This FDP is open to all academicians, Research scholars, UG/PG students and persons from industry. As the FDP is inter disciplinary, interested persons can attend the programme. Research scholars working in the concerned area are encouraged to apply.

Resource Person

The Experts will be from faculty of IITs, NITs and reputed academic/research institute and industries.

Instructions for Participant

- Course Registration is free for all participants.
- The FDP will be conducted in Online mode.
- Interested Participant can register online through <https://atalacademy.aicte-india.org/login>.
- Seats are limited (only 50) and the participants are selected by organizers on first come first serve basis.
- Shortlisted candidates will be informed through email.
- At the end of the course, an objective/quiz-based assessment will be done for the participants.
- Those who have an attendance of minimum 80% and score more than 60% in the test will be issued a digital certificate by the ATAL Academy.

Important Date

Last Date for Registration: August 31,2021.

Confirmation of Registration: Sept. 04, 2021

Organizing Committee

Prof. H. N. Chaudhary, Asst. Prof., GEC Palanpur
Prof. H. V. Hirvaniya, Asst. Prof., GEC Palanpur
Prof. K. G. Prajapati, Asst. Prof., GEC Palanpur
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Schedule (Tentative)

ATAL Online Faculty Development Program

on

Assessment and Utilization of Renewable Energy Resources

Electrical Engineering Department

Government Engineering College, Palanpur, Gujarat

Day/ Session	Session-1 (11:00 am to 12:30 pm)	Session-2 (01:30 pm to 03:00 pm)	Session-3 (03:30 pm to 05:00 pm)
Day-1 Monday (13/09/2021) Theme: Small Hydropower (SHP)	Assessment and Planning of SHP Resources Dr. S. K. Singal IIT Roorkee	Modeling and Simulation of SHP Dr. Dheeraj K. Khatod IIT Roorkee	Pumped Hydro Storage Dr. Arun Kumar IIT Roorkee
Day-2 Tuesday (14/09/2021) Theme: Solar Energy	Assessment of Solar Energy Resources Dr. Alpesh M. Patel GEC, Palanpur, Gujarat	Solar PV based Net-Zero Energy Building Dr. V.S.K.V. Harish NSUT, Delhi	Solar Thermal Energy Utilization Dr. R. P. Saini IIT Roorkee
Day-3 Wednesday (15/09/2021) Theme: Wind Energy	Assessment of Wind Energy Resources Dr. Anurag Chauhan REC, Banda, UP	Indian Wind Energy and its Development-Policies-Barriers Dr. Sunanda Sinha MNIT, Jaipur	Stand-alone Wind Energy Conversion System Dr. Priyesh Chauhan IITRAM, Ahmedabad
Day-4 Thursday (16/09/2021) Theme: Bioenergy	Assessment of Bioenergy Resources Dr. Subho Upadhyay DEI, Agra, UP	Design and Evaluation of Biomass Combustion Devices Dr. S. K. Tyagi IIT Delhi	Biofuels and applications Dr. Gaurav Dwivedi MANIT, Bhopal
Day-5 Friday (17/09/2021) Theme: Regulatory, Motivation and Valedictory	Renewable Energy Policy and Regulation Prof. Anand Kumar IIT Gandhinagar	Motivational Talk	Feedback, Online Test and Valedictory

Dr. Alpesh M. Patel
Coordinator