

## A. D. Patel Institute of Technology

( A Constituent College of CVM University )



### Mechanical Engineering Department

### Faculty Development Program

on

### “Trends of Sustainable and Green Energy Technology in India”



Sponsored By

AICTE Training And  
Learning (ATAL) Academy

**September 21 – 25, 2020**

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**Dr. M I Shah**  
( Prof. & Head, MED., ADIT )

#### Programme Coordinator

**Dr. R R Shah**  
( Assistant Professor, MED )

## CVM University:

Chartuar Vidya Mandal (CVM), was established in the year 1945 with a prime objective of rural development through education. The uniqueness of this trust lies in its ability to use quality education as a powerful means of social transformation. Presently CVM Manages 49 educational institutions from schools to colleges and sophisticated research institutes. CVM University has been established since 2020 is spread over 700 acres and comprises of 19 institutions.

## The Institute:

A. D. Patel Institute of Technology (ADIT) is a third engineering college established by Charutar Vidya Mandal, V.V. Nagar Gujarat in newly developed educational township known as New Vallabh Vidyanagar. Institute is running 8 UG programmes viz. Automobile Engineering, Computer Engineering, Electrical Engineering, Electronics and Communication, Food Processing Technology, Civil Engineering, Information Technology and Mechanical Engineering and 6 PG programmes (M.E/M.Tech) viz. in Thermal Engineering, Renewable Energy Engineering, CAD/CAM, Food Technology, Artificial Intelligence and Signal Processing & Communication.

## About FDP:

Sustainable Energy is one which is able to meet the growing demand of today's people without compromising the demand of the people that would require it in future. All renewable energy sources like solar, wind, geothermal, hydropower, wave and tidal power are forms of sustainable energy. The main purpose of green technology is to slow down global warming and reduce the greenhouse effect. The main idea is the creation of new technologies which do not damage the natural resources. This should result into less harm to people, species and the general health of our planet.

The aim of this FDP is to impart research skills to the beginners, improve the quality of research among the existing researchers in the area of thermal energy and to give a brief knowledge about harnessing renewable energy. This program will bring a positive transformation among the faculty members towards research work and enable the participants to develop competence in understanding recent advances in renewable energy systems.

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## Topics Covered

- Recent advances in solar photovoltaic energy conversion
- Research challenges in Solar Thermal Energy Storage
- Hydrogen fuelled vehicles and Fuel cell
- Wind power forecasting and energy conversion
- Computational modeling of solar energy systems
- Green buildings for sustainable development
- Research challenges in use of Nanomaterial's for energy applications

## Resource Persons

Eminent professors from premier institutions such as IIT, NIT, CVM University and Industrial Experts.

## Registration

Faculties from AICTE approved institutes, Research Scholars, PG Scholars and delegates from industries are eligible to apply. For registration: <https://www.aicte-India.org/atal>.

Limited Seats are available for the event, so participants are requested to register as early as possible

## Mode Of Event

All sessions will be conducted Online on Google Meet Platform.

## In Case Of Queries Contact

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### Trends of Sustainable and Green Energy Technology in India

September 21-25, 2020

Sr. No	Date	Session	Expert	Title
1	21/9/2020	10:00 to 11:30 AM	Dr. G N Tiwari Former Faculty IIT, Delhi	Greenhouse Sustainable Technology for Rural Applications
2	21/9/2020	11:45 to 1:15 PM	Dr. S A Channiwala CSIR Bhatnagar Fellow, SVNIT, Surat	Technological Pathway Towards Sustainable Green Energy Solutions
3	21/9/2020	3:00 to 4:30 PM	Dr. Manoj Neergat Professor, IIT, Bombay	Fundamental of Energy Conversion using Fuel cells
4	22/9/2020	10:00 to 11:30 AM	Dr. Avinash Agrawal Professor IIT Kanpur	Methanol Economy
5	22/9/2020	11:45 to 1:15 PM	Dr. Digvijay Kulshrestha Associate Professor CKPCET, Surat	Understanding Hydrogen Combustion
6	22/9/2020	3:00 to 4:30 PM	Dr. Hitesh Bhargav BVM Engineering College V V Nagar	Solar Adsorption Refrigeration System
7	23/9/2020	10:00 to 11:30 AM	Dr. K. SRINIVAS REDDY Professor, IIT, Madras	Solar Thermal System for Sustainable Energy
8	23/9/2020	11:45 to 1:15 PM	Dr. Nitin Labhasetwar Chief Scientist and Head E& RM Division CSIR-NEERI, Nagpur	Clean energy and Emission Control Options for Sustainable Development
9	23/9/2020	4:15 to 5:30 PM	P.P. Gyanvatsal Swamiji BAPS	Stress Management
10	24/9/2020	10:00 to 11:30 AM	Ms. Shabnam Bassi Associate Director GRIHA council, TERI	Green building
11	24/9/2020	11:45 to 1:15 PM	Dr. Devdas Lata Associate Professor Central University, Ranchi	Performance of Diesel Engine by Hydrogen as secondary fuel
12	24/9/2020	3:00 to 4:30 PM	Dr. Piyali Das Senior Fellow & Area Convenor, The Energy and Resources Institute (TERI)	Biomass based green fuels and chemical with a circular economy approach
13	25/9/2020	10:00 to 11:30 AM	Dr. P.M.V.Subbarao Professor IIT, Delhi	Development of sustainability energy sufficiency model village using waste biomass resources
14	25/9/2020	11:45 to 1:15 PM	Mr. Hetal N Shah Reliance Naval Engg. Ltd.	Setting up of utility Scale Wind farm and its current scenario
15	25/9/2020	3:00 to 4:30 PM	Test, Feedback and valedictory function	