

## Registration Form

All India Council for Technical Education  
(AICTE), New Delhi

Sponsored

### Faculty Development Programme (FDP)

on

### Technological Advances & Emerging Dimensions in Power & Energy Sector

Venue: Conference Hall, Department of Electrical Engineering, C.T.A.E,  
Udaipur  
18<sup>th</sup> – 30<sup>th</sup> December, 2017, (Two Week)

Name: -----

Designation: -----

Age: -----

Name of the Institute where Employed-----

Name of the Department: -----

Academic Qualification (degree onwards): -----

Specialization: -----

Teaching Experience in Years: -----

Residential address with pin code: -----

Complete official mailing address: -----

Mobile No: -----

Email: -----

Signature of the applicant

## Sponsorship Certificate

The applicant will be permitted to participate in the above programme, if selected. Further, I have personally talked to the applicant and he/she seems to be sure of attending the course in case the admission is offered to him/her.

This is to certify that this institute is recognized by AICTE.

Date:

Signature

Sponsoring Authority  
(with seal)  
(Principal / Director)

Note:

1. Please do not come to Udaipur to attend the course unless you have received admission letter or intimation from us for the same. No applicant will be admitted to the course on the spot.
2. Please note that 100% attendance is compulsory in the course.

After Completion of Registration form and duly signed Sponsorship Certificate, Please Mail to:

**Dr. Vikramaditya Dave**

Coordinator

Department of Electrical Engineering (NBA Accredited)

College of Technology and Engineering,

Maharana Pratap University of Agriculture and

Technology, Udaipur (Rajasthan) – 313001

E-mail: [coordinator.aicte2017@gmail.com](mailto:coordinator.aicte2017@gmail.com)

Mobile: 9414737956, 7976314270

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18<sup>th</sup> December, 2017 – 30<sup>th</sup> December, 2017

(Two Week)

Organized by



Department of Electrical Engineering  
(NBA Accredited)

College of Technology and Engineering,  
Maharana Pratap University of Agriculture and Technology,  
Udaipur

Course Coordinator & Director

Dr. Vikramaditya Dave

Assistant Professor (Senior Scale)

Course Co-Coordinator

Dr. Jai Kumar Meharchandani

Assistant Professor

## About the Institute

The College of Technology and Engineering,(C.T.A.E) Udaipur is a constituent college of the Maharana Pratap University of Agriculture and Technology (Govt. of Rajasthan State University), Udaipur. The college was started in 1964 with a Graduate Programme in Agricultural Engineering. Presently C.T.A.E has undergraduate degree programmes in 8 branches, M.Tech, programs in 12 disciplines, besides an MBA programme in Engineering and PhD programmes in 9 disciplines. It is situated at about 7 km from Udaipur city railway station and bus terminal and 2 km from Rana Pratap Nagar railway station. The college has been recognized as Outstanding Engineering College in Northern Region and has been awarded “Outstanding Institution Award” in 2013 by National Institute of Technical Teachers Training and Research, Chandigarh (a Ministry of Human Resource and Development, Government of India, Institute). In 2016, the college has been ranked 82<sup>nd</sup> in India by MHRD. The five departments, Electrical, Mechanical, Civil, Agriculture and Mining Engineering are NBA accredited.



## About Udaipur

Udaipur is a beautiful city, set amidst the aravali ranges of Rajasthan, India, known for its picturesque lakes. The elevated hills and the beautiful lakes make a picture – perfect backdrop to the Udaipur city. It is popularly known as City of Lakes because of its sophisticated lake system. Udaipur is regarded as one of the most romantic cities of the world and subsequently, also known as the ‘Venice of East’. In context of Rajasthan, Udaipur is the most – sought tourist destination of the state. Five of the major lakes, namely Fateh Sagar Lake, Pichola Lake, Swaroop Sagar Lake, Rangasagar and Doodh Talai Lake have been included under the restoration project of the National Lake Conservation Plan (NLCP) of the Government of India. Every year, thousands of tourists come from all over the globe to visit this romantic city. Udaipur is easily accessible from all the major cities of India including Delhi, Mumbai and Jaipur. It is also well connected with its neighbouring states Gujarat, Punjab, Haryana, Uttarakhand; Uttar Pradesh etc. the climate and weather of Udaipur is usually moderate hot. The summer season runs from mid – March to June and touches temperature ranging from 23<sup>o</sup>C to 40<sup>o</sup>C in the month of March to June.

## Overview

Energy crisis is a great bottleneck (or price rise) in the supply of energy resources to an economy. The future global economy is likely to consume ever more energy, especially with the rising energy demand. At the same time there is increasing pressure for research, new technology and industrial products to be socially acceptable and to generate prosperity. The result is a complex and dynamic set of conditions affecting decisions on investment in research and new energy technology. To meet these challenges in the decades ahead, industrialists and policymakers need appropriate analyses of energy systems, plus knowledge of trends for existing technologies and prospects for emerging technologies. New technology will play a decisive role in fulfilling the needs of coming generations, and it may facilitate the decoupling of economic growth, energy demand and environmental effects. Technical advances such as use of nanotechnology in various sectors such as energy and power, solar photovoltaics, advanced fuel cells, biofuels, etc., can mitigate this global issue. This FDP will be suitable for renowned faculties and young scientists from academic institutes.

## FDP THEMES

The following topics will be covered during the programme

- Solar Photovoltaics (PV) and Solar Thermal
- Emerging Trends and Potential in Renewable Energy Sectors
- Smart Grid and Energy Storage
- Power Supplies & Wireless Charging
- Nanotechnology Applications in Power and Energy Sectors
- Fuel Cells and Super Capacitors
- Lithium-air Batteries, Hydrogen Energy Storage & Transport, Thermal Storage
- Distributed Generation
- Advances in Nuclear Reactors
- Emerging Dimensions in Artificial Intelligence Techniques
- Hybrid Vehicles
- Advance Metering Techniques/Devices
- Advance Technologies in Manufacturing Industries
- Enhanced Railway Engineering Techniques

## Eligibility

Faculty members from AICTE approved institutions are eligible for the programme.

## Transport, Boarding & Lodging

The travel expenses will be reimbursed as per MPUAT norms (maximum by AC 2 – Tier train fare). Out station participants (outside Udaipur) will also be provided free boarding and lodging. The participants will be accommodated in scientist hostel (located in campus of CTAE) on twin sharing basis.