

## Registration Form

### One Week National Workshop

on

### Modeling and Simulation of Power Electronic Converters for Renewable Energy using MATLAB & Simulink.

February 18th- 22nd, 2020

Department of Electrical Engineering  
UCET Bikaner

Pugal Road, Bikaner-334004- (Rajasthan)



### Organizing Committee

**Chief Patron :Prof. H.D. Charan Hon'ble VC (BTU) Patron**  
Dr. S.K Bansal, Director UCET Bikaner, **Chairman** : Mr. Vikas  
Bhalla, **Convener** Mr. Manikant Kumar, **Coordinators** : Mr.  
Sunil Kumar Baweja, Mrs. Archana, Mr. Jithin Sukumaran

### Course Content

- ❖ Power Electronics Converters in Modern Electrical System:  
Architecture, Design and Interfacing Aspects
  - ❖ Research and Development in Power Electronics DC- DC  
converter for Renewable energy sources using MATLAB  
Simulink
  - ❖ Impact of Distributed Generation Units with Power Electronic  
Converters
  - ❖ Grid Support by Power Electronic Converters of Distributed  
Generation
- Eminent Speakers** Academicians from IITs, NITs and  
professionals from industries.

### Advisory Committee

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Dr. Monalisha Pattnaik (NIT Rourkela)  
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## TEQIP III Sponsored

One Week  
National Workshop on

### Modeling and Simulation of Power Electronic Converters for Renewable Energy using MATLAB & Simulink.

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<https://docs.google.com/forms/d/1d51tSuwq04rqno3LZlXoqhhFGI4v4ZllmgDTYan9GhU/edit>

February 18<sup>th</sup> to 22<sup>nd</sup> 2020

Organized by



Department of Electrical Engineering

University College of Engineering and Technology  
Bikaner

(Constituent College of Bikaner Technical University)

Karni Industrial Area, Pugal Road, Bikaner, Rajasthan 334004

<http://cet-gov.ac.in/web>

Convener & Contact Person

**Mr. Manikant Kumar**

(Asst. prof. UCET Bikaner)

Call at : 7529955196

Email: manikant6038@gmail.com

Name: .....

Designation: .....

Department: .....

Institute/Organization: .....

Qualification: .....

Specialization: .....

Mailing/Address: .....

.....

Phone(M) .....

E-mail : .....

Registration Category : Faculty / Student / Industry

### Registration Details:

Draft No: .....Dt: .....

For Rs. ....1. Through Demand Draft drawn  
in favor of "CET FACULTY DEVELOPMENT FUND"  
PAYABLE AT BIKANER

2. Through Electronics cash transfer via NEFT to "CET Faculty  
Development fund" A/C No 11741011000776, Oriental Bank of  
Commerce, Engineering College, Pugal Road, Bikaner, and IFSC:  
ORBC0101174.

The above information provided is true and to the best of my knowledge. If  
selected, I agree to abide by the rules and regulation of the Workshop

Date :

Signature of Candidate

The applicant will be permitted to participate in the above program, if selected.

Date :

Signature of sponsoring/ Head of Deptt with seal

## Preamble

Due to adverse effect of pollution and utilization of conventional energy in efficient way has led the researcher to think about renewable energy sources. Various Tools like MATLAB/Simulink has played a versatile role for the development of renewable energy research area and accelerated its research for further mankind. In recent years, there has been a lot of emphases is going on the grid-integration of Renewable Energy Sources (RES) due to their versatile impact in the modern electric grid. RES can produce clean and pollution-free energy. However, the integration of RES with electric grid requires Power Electronic Converters (PECs). These converters act as the interface between RES and Grid. A stable, protected, energy-efficient and good supply quality integration is the mandate of the present and future electrical power system. However, increasing demand for power can be met by developing clean RES and also by enhancing the overall efficiency of the conversion by adopting new/improved control methods. Therefore, these PECs are serving as an energy conditioning device which process and controls the flow of electrical energy by supplying voltages and currents in the form that optimally suits various types of loads and associated applications. Different converters and their topologies are designed to optimize the energy conversion and distribution, to minimize harmonic distortion, to reduce cost and to have high reliability. Recent trends are also focusing on power quality (PQ) issues of distribution systems and associated smart energy management principles. Hardware implementation of such grid interactive systems is also a challenging task due to the impact of various factors.

## About University College of Engineering and Technology Bikaner:

University College of Engineering and Technology (UCET) Bikaner is constituent college of Bikaner Technical University (BTU). Before becoming constituent college of BTU it was known as Govt. College of Engineering and Technology (GCET). It was established in 2007, as an autonomous body of Govt. of Rajasthan, amidst the brown blooms of desert island,

Bikaner. Bikaner Technical University was established in 2017 and soon after that UCET become it's constituent college. It has made its mark by inspiring quality education. Total intake of College is 360 students in branches (CSE, ECE, EE, ME, CE, CRE) of Engineering and 30 students in MBA per year. The University is located in the RIICO Karni Industrial Area of Bikaner.

## About Bikaner City

Bikaner is a city in the north Indian state of Rajasthan, east of the border with Pakistan. It's surrounded by the Thar Desert. The city is known for the 16th-century Junagarh Fort, a huge complex of ornate buildings and halls. Within the fort, the Prachina Museum displays traditional textiles and royal portraits. Nearby, the Karni Mata Temple is home to many rats considered sacred by Hindu devotees.

## How to Apply

Category	Registration Fee
Student	Rs. 500/-
Research Scholar	Rs. 1000/-
Academician/ R& D Institute	Rs. 2000/-
Industry Delegates	Rs. 3000/-

The fees can be paid by any one of the following modes

1. through Demand Draft drawn in favor of "CET FACULTY DEVELOPMENT FUND" PAYABLE AT BIKANER.
2. Through Electronics cash transfer via NEFT to "CET Faculty Development fund" A/C No 11741011000776, Oriental Bank of Commerce, Engineering College, Pugal Road, Bikaner, IFSC: : ORBC0101174. Duly filled applications in the prescribed

format and sponsored by the competent authority of the Institution need to be sent to the Coordinator to reach on or before 16<sup>th</sup> February 2020. The registration fee will include registration kit and high tea. The selection is on a first come first served basis depending upon the availability of seats. Registration charges are nonrefundable for selected participants. As seats are limited, so preregistration is required by applying online at <https://docs.google.com/forms/d/1d51tSuwq04rqno3LZlXoqhhFGI4v4ZllmgDTYan9GhU/edit>

## Important dates to remember

Last date of receiving Registration form : Feb. 16<sup>th</sup> , 2020  
Confirmation of Selection by Email :Feb. 16<sup>th</sup> , 2020  
Course Duration :Feb 18<sup>th</sup> -22<sup>nd</sup> , 2020

## Boarding and Lodging

There will be no accommodations for participant how ever house/hostels in Bikaner city are available for outstation participants on a chargeable basis with an advance booking. Participant must ensure there stay in Bikaner city by own. The participant will not be paid any TA/DA.

## How to reach

Road, rail and air services well connect Bikaner. It is about 450 kms from Delhi International Airport. UCET Bikaner is situated on Pugal road and is about 12 kms from Bikaner railway station and Bikaner Bus Stand. Bikaner airport is about 20 kms away from the institute.

## Convener and Contact Person

### Mr. Manikant Kumar

Assistant Professor UCET Bikaner (A constituent college of Bikaner Technical University)

Phone No 7529955196

Email Id: manikant6038@gmail.com