

## About REC Ambedkar Nagar

Rajkiya Engineering College (R.E.C.), Ambedkar Nagar was established by the Government of Uttar Pradesh in 2010 and is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. It is running B.Tech. Programs in three disciplines – Information Technology (IT), Electrical Engineering (EE) and Civil Engineering (CE). These courses are approved by AICTE, New Delhi. The students of REC Ambedkar Nagar are extensively exposed to cross-cultural environment as candidates from various other State such as Jammu & Kashmir, Madhya Pradesh, Rajasthan etc. join REC for various undergraduate programs. REC Ambedkar Nagar is fully residential institution with three hostels for boys and one for girls.

The Institute is situated 3 Km away from the city (Akbarpur Bus Stand) on Tanda road near hawaipatti (Air Strip). It is well connected through road and rail network. The nearest airport is Babatpur (Varanasi) which is about 100 Km far from the Institute.



### CHIEF PATRON

**Prof. Vinay Kumar Pathak**

Hon'ble Vice Chancellor, Dr. A. P. J. Abdul Kalam Technical University, Lucknow

### CONVENOR (s)

**Dr. Akhilesh Kumar Mishra**

Director, Rajkiya Engineering College (R.E.C.)  
Ambedkar Nagar

&

**Dr. S. P. Singh**

Associate Professor & Head, EED,  
REC Ambedkar Nagar

### COORDINATOR (s)

**Dr. M. Aslam Husain**

Assistant Professor, EED  
REC, Ambedkar Nagar

### ORGANIZING SECRETARIE (s)

**Mr. Yudhishtir Pandey**

Assistant Professor, EED  
REC, Ambedkar Nagar

&

**Dr. Arif Iqbal**

Assistant Professor, EED  
REC, Ambedkar Nagar

### ORGANIZING COMMITTEE

Mr. Vikas Patel	Dr. Puneet Joshi
Dr. Sanjay Agrawal	Mr. Lokesh Kumar Yadav
Ms. Shikha Chaudhary	Mr. Sonu Kumar
Mr. Vipin Patel	Ms. Shashi Pandey
Mr. Niteesh K Singh	Mr. Jaswant Singh
Mr. Sanjay Maurya	Mr. Kundan Kumar
Mr. Vivek Tiwari	Mr. Anurag Verma

## One Week Short Term Course (STC)

on

**“Recent Advances in Renewable & Emerging Energy Technologies with emphasis on Solar, Wind & Fuel cell”**

**(August 27-31, 2019)**

Organized by



Department of Electrical Engineering  
Rajkiya Engineering College Ambedkar Nagar

Sponsored by

**TEQIP-3**  
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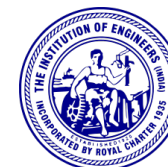
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**IEEE**

Rajkiya Engineering College,  
Ambedkar Nagar Student  
Branch (STB11386), IEEE  
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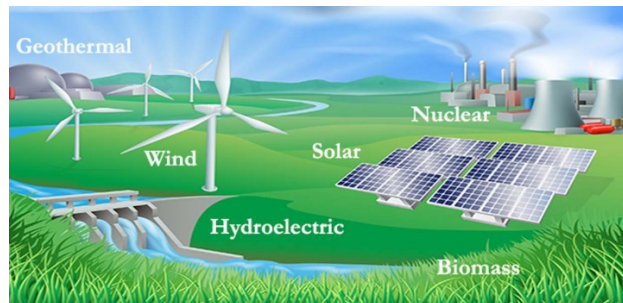


The Institution of Engineers  
(India), Rajkiya Engineering  
College, Ambedkar Nagar

## About the Department

The department of Electrical Engineering at Rajkiya Engineering College Ambedkar Nagar offers a vibrant environment for undergraduate education in Electrical Engineering (Established in 2010). The Department of Electrical Engineering is actively engaged in teaching and research with modern laboratories and excellent members of faculty.

The under graduate programme provides the students with a strong background in the broad areas of Electrical Engineering, namely, Power Electronics, Machines, control technology, electronics, and power & energy. The department has a very sound and young faculty strength, most of them have their Masters and Ph.D. degree from IITs, NITs, Central Universities.



## Course Outline

The growing energy crisis arising due to the mismatch in demand and supply of electricity is a major hindrance to sustain the current socio-economic growth of developing country like India. The integration of renewable energy sources like wind and solar have shown their effectiveness in achieving the aforesaid targets within their limits with the adoption and development of more advanced technology and have shown road map for their prospective growth. The geographical map of India provides us tremendous potential to tap the wind energy available along the long coast line and solar energy is almost uniformly available in most of the parts of the northern India. The aim of this programme is to provide exposure to faculty members, practising engineers, and students to the concepts of Recent Advances in Renewable Energy Technologies and Microgrids. This course begins with an overview of Renewable Energy sources & Microgrids.

The Highlights of this programme are the followings:

- ❖ Overview of Renewable Energy Sources
- ❖ Solar Photovoltaic Technology
- ❖ Wind Energy Conversion Systems
- ❖ Fuel Cells
- ❖ Solar cells, solar modules, design and installation of solar photovoltaics systems, Wind power plants etc.
- ❖ Energy Storage Systems
- ❖ MPPT Controllers for solar photovoltaic and wind systems
- ❖ Energy storage systems, MPPT algorithms etc.
- ❖ Converter Topologies for solar photovoltaic and wind systems
- ❖ Converter design: Modeling, simulation and hardware development etc.

## TARGET PARTICIPANTS

The programme is recommended to teachers who need the knowledge of such tools for their all-round academic development.

## RESOURCE PERSONS

Resource Persons will be experts from the field of engineering and management education associated with esteemed institutes.

## Registration Form One Week Short Term Course (STC) on

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**(August 27-31, 2019)**

Full Name: \_\_\_\_\_

Designation, Department and Organization: \_\_\_\_\_

Email Address: \_\_\_\_\_

Correspondence Address: \_\_\_\_\_

Mobile number: \_\_\_\_\_

Accommodation<sup>#</sup> Required (Yes /No): \_\_\_\_\_

Forwarded by \_\_\_\_\_

<sup>#</sup>In-campus Hostel Accommodation may be provided free of cost but it will depend on the availability. Participants will have to pay for accommodation provided outside the campus.

**\*\*There is no Registration fee for the participants**  
Last Date for sending the registration form (duly forwarded by competent authority) is **20-08-19**

Contact details:

Email: [patelvipin021@gmail.com](mailto:patelvipin021@gmail.com)

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