



[An Integrated Campus approved by AICTE
Accredited by NAAC with Grade 'A' (5yrs.)]

(An ISO-9001:2008 Certified Institute)

Affiliated to AKTU, Lucknow

Summer Internship Programme

On

Advance Power Engineering Technologies, Instruments and Green Energy

(June 12-July 09, 2019)

Organized by

Centre of Excellence for Power Engineering Technologies and Clean Energy Integration
(CEPET&CEI)

Department of Electrical & Electronics Engineering

KIET Group of Institutions, Ghaziabad, Uttar Pradesh-201206, India



Technically Sponsored by

IEEE PES/IAS Joint Chapter UP Section



Technical Partner

OPAL-RT Technologies

Objective of Internship

It is known fact that the rapid growth of power industry and green energy technologies will increase the job opportunities and required high scaled skill hands in this area. India ranks as one of the largest countries in renewable energy production which includes significantly use of wind, solar, biomass, etc. The resource augmentation and its use in energy technologies have not been kept in pace to match the increasing energy demand, leaving significant energy shortages in India.

The Internship Programme will address in-depth knowledge on solar and wind energy conversion, energy storage and device fabrication. Further, this workshop would provide an excellent platform for students to gain knowledge in state of art technologies in the field including advance power engineering instruments and equipment. The objective of this event is to provide hands-on experience and improve problem solving ability of students in the relevant area. The students' will be able to design and develop some research models based on power engineering technologies including green energy system.

Organizing Committee

Dr. Neeraj Kumar Gupta, Chair
Professor and Head of Department

Prof. Kapil Gandhi, Coordinator

Prof. Ramesh Singh, Co-Coordinator

Dr. Brijesh Singh, Convener CEPET&CEI

Prof. Ajeet Kumar Singh, Co-Coordinator

Registration Fee

The registration fee for the students (UG, PG and Research Scholars) is **Rs. 1500/-**. A maximum number of students participating in the programme is limited to 30 students. Acceptance of registration in programme is on first come first serve basis. All participants are requested to complete registration before **June 08, 2019**. Payment of registration fee for participation in the school by cash payment in **KIET Account Office** or by **KIET Paytm Transfer**.

Note: The registration fee does not include any accommodation facility in the campus. Please submit registration form and payment slip to the coordinators by June 08, 2019.

Important Dates

Registration Started	May 6, 2019
Last date of registration	June 08, 2019 May 30, 2019
Starting of Internship	June 12, 2019
Ending of Internship	July 09, 2019

For details

Contact Nos.: +91-9410013014, +91-9716000576, +91-8003643472 Email: kapil.gandhi@kiet.edu





[An Integrated Campus approved by AICTE
Accredited by NAAC with Grade 'A' (5yrs.)]

(An ISO-9001:2008 Certified Institute)
Affiliated to AKTU, Lucknow

Registration Form

Summer Internship Programme
On
**Advance Power Engineering Technologies,
Instruments and Green Energy**
(June 12-July 09, 2019)

Organized by

**Centre of Excellence for Power Engineering Technologies and Clean Energy Integration
(CEPET&CEI)**

Department of Electrical & Electronics Engineering
KIET Group of Institutions, Ghaziabad, Uttar Pradesh-201206, India



Technically Sponsored by
IEEE PES/IAS Joint Chapter UP Section



Technical Partner
OPAL-RT Technologies

1. Name of the Student _____
(In Block Letters)

2. Father/Guardian Name _____

3. Name of Institute _____

3. Name of University _____

4. Branch _____ Student (UG) _____

4. University Enrollment Number _____ Year/Semester _____

7. Address for Communication _____

E-Mail Address _____ Phone / Mobile No. _____

8. Payment Details

For KIET Students only: Fee Receipt No. Amount Rs. Date

OR

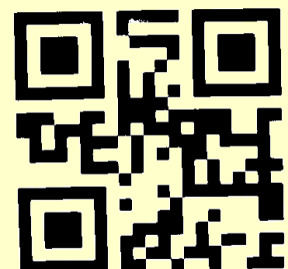
Details of payment via Paytm Transfer (Scan QR Code and select "Course fee for existing students")

Mobile no. Amount Rs. Date

Transaction reference no.

Place _____

Date _____



(Signature of applicant)

Note: Please submit registration form and payment slip to the coordinators by June 8th, 2019.



[An Integrated Campus approved by AICTE
Accredited by NAAC with Grade 'A' (5yrs.)]

(An ISO-9001:2008 Certified Institute)
Affiliated to AKTU, Lucknow

Summer Internship Programme
On
**Advance Power Engineering Technologies,
Instruments and Green Energy**
(June 12-July 09, 2019)

Organized by

**Centre of Excellence for Power Engineering Technologies and Clean Energy Integration
(CEPET&CEI)**

Department of Electrical & Electronics Engineering
KIET Group of Institutions, Ghaziabad, Uttar Pradesh-201206, India



Technically Sponsored by
IEEE PES/IAS Joint Chapter UP Section



Technical Partner
OPAL-RT Technologies

Course Structure

Module 1: Fundamental of Design and Fabrication of Electrical Systems

Introduction to electrical and electronic components, electrical wiring, design and fabrication of inductors and transformers, PCBs fabrication using CNC machine.

Module 2: Advance Electrical Measurement Equipment

Introduction and operation of digital storage oscilloscope, 1 \emptyset and 3 \emptyset power analyzers, variable frequency drive, and measuring instruments.

Module 3: Introduction to Renewable Energy Systems and Experiments

Renewable energy, introduction to solar PV and wind power generation system, experiments on solar PV research & training system, wind power simulator.

Module 4: Introduction to Advanced Topics in Power Engineering Applications

Introduction to smart grid, concept of microgrid, energy storage, MATLAB modelling and simulation of hybrid microgrid, application of real-time simulations.