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### Course Highlights

- Lectures by eminent experts from Academia, Industry and Govt. Organizations
- Practical Aspects of High voltage equipment design and testing.
- Understanding of computer based Simulations for lightning electromagnetic field and its analysis.
- Consideration of lightning electromagnetic interference on power systems.
- Business opportunity and job Creation in Energy Sector

### Chief Patron

Dr. A. M. Rawani,  
Director, NIT Raipur

### Patron

Dr. (Mrs.) Shubhrata Gupta,  
Dean (R&C), NIT Raipur

### Convener

Dr. N. D. Londhe,  
HoD, Department of Electrical  
Engineering,  
NIT Raipur

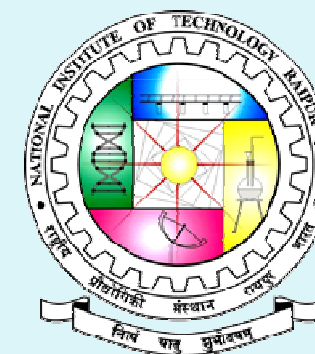
### Coordinators

Dr. K Chandrasekaran  
Assistant Professor, EED,  
NIT Raipur

Dr. Baidyanath Bag  
Assistant Professor, EED,  
NIT Raipur

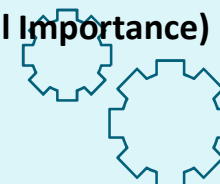
One Week Shot Term Training  
Program  
On

# Recent Trends in Power systems and High voltage Engineering (31<sup>st</sup> Oct-4<sup>th</sup> Nov) 2019



Organized by

Department of Electrical Engineering  
National Institute of Technology  
Raipur-492 010, India  
(An Institute of National Importance)



## About the Institute

National Institute of Technology, Raipur situated in the capital of Chhattisgarh, has proven to be a Pioneer in the field of science and technology over the decades. The institute laid its foundation stone with the hands of President Hon'ble Dr. Rajendra Prasad on 14<sup>th</sup> September, 1956, and the inauguration of the Institute building was done by Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14<sup>th</sup> March 1963. From 1<sup>st</sup> December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railway station and 18 km from airport on NH-6, the Great Eastern Road.

## About the Department

The Department of Electrical Engineering came into existence in year 2000. Electrical Engineering Department acts as the study, research and work place for approximately 600 students from the 29 states across India. The department provides an outstanding research environment and offers academic program leading to the award of B. Tech, M.Tech. and Ph.D. degrees.

## Workshop Venue

Department of Electrical Engineering, National Institute of Technology, G.E. Road, Raipur-492010 (C.G.), India

## Course Objectives

UHV transmission line would be more suitable for transfer of bulk power efficiently. Thus it is essential that the electrical engineers need be equipped with the latest research and development issues in high voltage technology. This emphasizes the need for a platform for teachers of engineering/technical institutions and practicing high voltage engineers to learn modern techniques for increasing power generation as well efficiently transmitting it.

The main objectives of the short-term course are to enhance the participant's understanding of basic concepts and theory related to the generation and measurement of high voltage its application. The safety, insulation selection, grounding, partial discharge and the concept of high voltage related to pulsed power will be discussed. The participants will also be provided hands on practical experience in the high voltage laboratory of the Department along with all the theory relevant to this particular area of the power system.

## Topics to be Covered

- High voltage generation
- High voltage measurement and testing techniques.
- Partial discharge studies.
- Condition monitoring of power equipments.
- Lightning Theory - electrical perspective
- Lightning electromagnetic fields – Computation
- Effects of lightning on power system components
- Control, operation and monitoring of power system
- Financial and business models of power systems

## Registration

Applications in prescribed format with registration fee in the form of Demand Draft drawn in favour of "Director, NIT Raipur" payable at Raipur, must reach the coordinator on or before **30<sup>th</sup> October 2019**. **Registration fee includes registration kit, lunch, snacks and hand outs.** Certificates will be issued to the participants only after attending the complete course.

## Registration Fee

Participant Category	Amount (in Rs)
UG/PG / Ph.D. Students	800/-
Internal Faculty of NITRR	1000/-
Faculty/Industry Delegates	1000/-

## Who Should Attend ?

- U.G./ P.G. /Ph.D. students of All Streams
- Faculty members/ Researchers
- Industry Employees

## Provisional Registration

Please take the printout of registration form, after filing the asked details send the scanned copy with DD at **email: [kchandrasekaran.ee@nitrr.ac.in](mailto:kchandrasekaran.ee@nitrr.ac.in)**  
**Contact No.: +91-9479202269**

REGISTRATION FORM

ONE WEEK SHOT TERM TRAINING PROGRAM ON  
**Recent Trends in Power Systems and High Voltage Engineering**  
**(31<sup>st</sup> Oct-4<sup>th</sup> Nov) 2019**

**Organized by**  
Department of Electrical Engineering  
National Institute of Technology, Raipur, C.G.

**Full Name (Block Letter):** .....

**Name of College/Institution/Organization:**

.....  
.....

**Qualification:** .....

**Designation:**.....

**Address:**

.....  
.....

Pin code:

Phone No./Mobile No.:

E-mail:

Do you need accommodation: ( Yes/ No ):

I have enclosed the registration fee of Rs.....by D.D. No .....

Dated.....in favour of ***“Director, NIT Raipur” payable at SBI, GCET Branch, Raipur***

Place:

Signature of the Participant

Date:

**Duly filled registration form must reach to Department of Electrical Engineering, NIT-Raipur, before last date of receipt of registration form by post/by hand along with registration fee (DD)**