

## ABOUT THE INSTITUTE



National Institute of Technology, Raipur (Formerly Known as GCET, Raipur) is an institute of national importance established in

1956. It is one of the premier institute in the field of science and technology in Central India. It is situated in the centre of Raipur, capital of a newly incepted state of Chhattisgarh. NIT Raipur is well connected to all parts of the country by rail and air. The institute is about 5 km from Raipur railway station and 25 km from Raipur airport.

## ABOUT THE DEPARTMENT

The Department of Electrical Engineering came into existence in 1958. Department of Electrical Engineering aims at imparting the state of the art of knowledge and skills to the students in the field of electrical engineering and to mould them to become successful intellectuals of the society. The department provides an outstanding research environment and offers academic programs leading to the award of B.Tech, M.Tech. and Ph.D. degree.

## OBJECTIVES

The objective of this workshop is to provide hands-on training on PSIM and CYME software in the field of power electronics and power system. Lectures will be delivered by experts from Trident Techlabs Pvt. Ltd. It also provides a platform for interaction between the experts from industry and the faculty members, research scholars, young scientists, post graduate and under graduate students of various organizations. It will provide introduction to renewable energy module, closed loop controls, digital control module, SIM coupler module (MATLAB interfacing), hybrid vehicles design suits, motor controller design suits, controller designing software smart control, PSIM interface with TI-F28335 DSP (hardware interfacing), power transmission & distribution network analysis with CYME power world simulator including power flow analysis, fault analysis, contingency analysis, transient stability.

## COURSE DESCRIPTION

The workshop is proposed to give a thorough exposure to the PSIM and CYME platform for analysis in the field of Power Electronics and Power System for accessing of energy. Distinguishing features of this programme include demonstration of PSIM and CYME, hands-on training, and laboratory session. The proposed workshop will provide opportunity to faculty, engineers, and utility/industrial personnel to analyse latest advances, associated problems and measures to overcome them.

## COURSE CONTENTS

The program will be conducted in an interactive environment providing greater scope for discussion. Emphasis will be on a highly participative style of learning

- Power Electronics Converters.
- Multilevel Inverter
- Control algorithms and optimization of Power electronics converter
- Power Electronics Applications
- Power System Analysis
  - Load Flow Analysis
  - Transient Analysis
  - Fault Analysis
  - Contingency Analysis

## IMPORTANT DATES

**Last date of receipt of application by post: 28/02/2017,**

**Notification of Shortlisted Candidate by email: 02/03/2017**

## CONTACT

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**Dr. Monalisa Biswal**

Assistant Professor,

**Dr. Ebha Koley**

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## REGISTRATION FORM

Self - Sponsored

Five Days

Short Term Training Programme (STTP)

on

**PSIM and CYME platform for Power  
Electronics and Power System**

6<sup>th</sup> March to 10<sup>th</sup> March, 2017

Organized by  
Department of Electrical Engineering,  
National Institute of Technology,  
Raipur – 492010, Chhattisgarh

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

Name of College/Institution/Organization  
.....

Qualification:.....

Designation:.....

Address:.....

Pin code:.....

Phone No.: .....

Mobile No.: .....

E-mail: .....

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

Dated.....in favour of “**Director, NIT,  
Raipur**”

Place :

Date :

**Signature of the participant**

## Patron

**Dr. Sudarshan Tiwari**  
Director, NIT Raipur

**Dr. Shubhasish Sanyal**  
Dean (R&C), NIT Raipur

## Course Coordinators

**Dr. Swapnajit Pattnaik**

**Dr. Monalisa Biswal**

**Dr. Ebha Koley**

Assistant Professor

National Institute of Technology Raipur

## Registration Fee

**PG/PhD Students Rs. 1000/-**

**Academician Rs. 2000/-**

**Industrial Person Rs. 2500/-**

The fee has to be paid in the form of non refundable DD drawn in favour of “*Director NIT, Raipur*” payable at **SBI, GCET Branch, Raipur**. The fee includes course material, tea and snacks.

## HOW TO APPLY

Application in the prescribed format with registration fee in the form of Demand Draft must reach the coordinator on or before 28<sup>th</sup> February, 2017. **Accommodation will be provided in hostel in minimal payment basis.** Selected candidate will be informed by email as per the schedule. Certificates will be issued to the participants only after attending the complete course.

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&  
Trident Techlabs Pvt. Ltd., Pune