ABOUT THE INSTITUTE

National Institute of Technology, Raipur (Formerly Known as GCET, Raipur) is an institute of national importance established in 1956 and upgraded as NIT in December 2005. 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 formed state of Chhattisgarh. NIT Raipur 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 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 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 STTP is to train the faculty members, research scholars, young scientist, students and person from industry of various organizations in the field of power electronic converter and its real time digital control. The objective of the programme is also to provide a platform for interaction and exchange of ideas on recent trends and future advancement in the field

COURSE DESCRIPTION

The STTP is proposed to give a thorough exposure to the recent research trends, analytical analysis and real time implementation in the field of power electronic converters, its real time digital control and applications. Distinguishing features of this programme include expert talk on field and future technological advancement, hands-on training and laboratory sessions. The proposed STTP will provide opportunity to faculty, engineers and utility/industrial personnel to know the latest advances, associated problems and measures to overcome them and possible areas of research.

COURSE CONTENTS

- Review of classical power electronic converters and associated issues.
- DC-AC Converters (Square wave, PWM and Multilevel inverters).
- AC-DC converters (Classical and multilevel rectifiers).
- DC-DC Switch Mode Converters (Single and multiple input)
- Switching techniques of power electronic converters (Pulse width modulation).
- Digital control and controllers.
- Nonlinear, adaptive and robust control techniques.
- Optimization based controller design and system identification
- Real time control of power electronic converters.
- Hands on training on implementation of digital controllers in different platforms like DSP, FPGA and dSPACE
- Tutorial sessions and Laboratory Exercises

CONTACT

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REGISTRATION FORM

Short Term Training Programme

on

Recent Trends in Power Electronic Converters and Real Time Control

(Sponsored by TEQIP – II)

December 14-18, 2015

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

Full Name (Block Letter): ……
……..
Name of College/Institution/Organization
……..
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Qualification:……
Designation……..
Address:……
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……
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

Chief Patron

Prof. Sudarshan Tiwari
Director, NIT Raipur

Patron

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

Course Coordinators

Dr. Subhojit Ghosh
Assistant Professor and Head
National Institute of Technology Raipur

Mr. Lalit Kumar Sahu
Assistant Professor
National Institute of Technology Raipur

Registration Fee

Research Scholar	**Rs.**	**1000/-**
Academician	**Rs.**	**1500/-**
Industry Person	**Rs.**	**2000/-**

The fee has to be paid in the form of non-refundable DD drawn in favour of "***Director NIT Raipur***". The fee includes course material, working lunch, tea and snacks.

HOW TO APPLY

Candidates should apply online through link http://bit.ly/1L8LQI6 and submit the duly filled registration form along with DD to the Department of Electrical Engineering, NIT-Raipur on or before 14 Dec 2015.

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Course Coordinators

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