ABOUT THE INSTITUTE

National Institute of Technology, Raipur (Formerly Known as GCET, Raipur) is an institute of national importance established in 1965. It is one of the premier institute in the field of science and technology in Central India. It situated in the centre of Raipur, capital of a newly incepted 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 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 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 program leading to the award of B.Tech, M.Tech. and Ph.D. degree.

OBJECTIVES

The objective of this workshop is to train the faculty members, research scholars, young scientist and post graduate students of various organizations in the field of power electronics 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 workshop is proposed to give a thorough advancement and real time implementation in the field of power electronics 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 session. The proposed workshop will provide opportunity to students, faculty, engineers and utility/industrial personnel to know the latest advances, associated problems and measures to overcome them. The workshop will also help to explore the research areas in the field of power electronics converters, electrical drives and real time control

COURSE CONTENTS

- Review of classical power electronics converters and associated issues.
- DC-AC Converters (Square wave, PWM and Multilevel inverters).
- AC-DC converters (Classical and multilevel)
- 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.
- Modelling and Simulation of different power electronics converters
- Hands on training on implementation of digital controllers in different platforms like DSP, FPGA and dSPACE
- Experimental session on validation of different power electronics converters
- Hands on session for development of laboratory prototype and PCB design

IMPORTANT DATES

Last date for applying Online: 30/11/2019
Confirmation of Participation : 05/12/2019

CONTACT

Contact No.: **9630234305 / 9441162682**
Email: **rtpec.rtc@gmail.com**

REGISTRATION FORM

2nd National Workshop

on

Recent Trends in Power Electronics Converters and Real Time Control

December 9-13, 2019

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**. …. with the online transaction **ID/ DD No.** …. **Dated**….. in favour of **"Director, NIT Raipur"**

Place :
Date :

Signature of the participant

PATRON

Prof. A M Rawani
Director, NIT Raipur
Dr. (Mrs.) Shubhrata Gupta
Dean (R&C), NIT Raipur

CHAIRMAN

Dr. N D Londhe
HoD, Department of Electrical Engg.

COURSE COORDINATORS

Dr. Lalit Kumar Sahu
Assistant Professor,
Department of Electrical Engineering
Dr. Subhojit Ghosh
Associate Professor,
Department of Electrical Engineering

Registration Fee

UG Student	**Rs.**	**1000/-**
PG/PhD Student	**Rs.**	**1500/-**
Faculty/Academician	**Rs.**	**2000/-**
Industry Personnel	**Rs.**	**3000/-**

The fee has to be paid online or 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, working lunch, tea and snacks.

HOW TO APPLY

Applications in prescribed format along with registration fee details should reach to the coordinator on or before 5 December, 2019; failing which the participation of the candidate will get cancel automatically. Fee is non-refundable. Since the number of seats is limited to 30, the selection will be made on first cum first serve basis and intimation will be sent to the candidates by email as per the schedule.

2nd National Workshop

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RECENT TRENDS IN POWER ELECTRONICS CONVERTERS AND REAL TIME CONTROL

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Course Coordinators

Dr. Lalit Kumar Sahu

Dr. Subhojit Ghosh

Organized by

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

Contact No.: **9630234305 / 9441162682**
Email: **rtpec.rtc@gmail.com**

Account details for online payment of registration fees:

NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR
BANK DETAILS OF TEQUIP-III

ELECTRONIC CLEARING SERVICE / REAL TIME GROSS SETTELEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

A. DETAILS OF ACCOUNT HOLDER

NAME OF THE ACCOUNT HOLDER	DIRECTOR NIT RAIPUR
COMPLETE CONTACT ADDRESS	G.E.ROAD, RAIPUR (C.G.) 492010
E-Mail Id of the Account Holder	director@nitrr.ac.in

B. BANK ACCOUNT DETAILS

BANK NAME	STATE BANK OF INDIA
BRANCH NAME WITH COMPLETE ADDRESS	G.C.E.T.BRANCH, G.E.RAOD RAIPUR (C.G.)
IFSC CODE OF THE BRANCH	SBIN0002852
MICR CODE	492002004
SWIFT CODE	SBININBB646
TYPE OF BANK ACCOUNT	SAVING ACCOUNT
COMPLETE BANK ACCOUNT NUMBER	34349680351

Banker's Signature and Seal

Authorized Signatory with seal
By. Registrar (F & A)
NIT, Raipur (C.G.)