

Send Your Registration Form

To

Prof. B. Venkatesaperumal., Head of Department
Coordinator One week STC on Power Converter Design.
NITK Surathkal, Mangalore-575025.

ABOUT NITK

NITK Surathkal is a premier institution engaged in imparting quality technological education and providing support to research and development activities. NITK is recognized as an institute of national importance by an act of parliament. NITK has carved a niche for itself among the best technical institutes in India. NITK offers 9 UG, 26 PG programs and PhD programs.

DEPARTMENT OF EEE

The Department of Electrical Engineering was established right from the inception of the institute in 1960. The post-graduate programme in Power and Energy Systems was started in the year 1992. Formal research activities leading to a doctoral degree (PhD) were introduced in the year 2003. The department has always exerted the best of its efforts to meet the objective of achieving technical excellence. The department is actively involved in research, development, testing and consultancy activities. There are several full-time PhD scholars pursuing research in the department, in addition to a large number of part-time registrants. Department has been extending need-based services of testing and consultancy to the industrial sector. Its R & D activities have gained momentum with funding/MoU from governmental agencies/industries.

Coordinators

Dr. B. Venkatesaperumal, Dr. H. Nagendrappa,
Dr. Y. Suresh, Dr. P. Parthiban and
Dr.A.Karthikeyan
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**A Self Financed One Week
Short Term Course**

on

Power Converter Design

From

17-12-2018 to 21-12-2018

Organized by

**NITK-STEP & Department of
Electrical & Electronics Engineering
National Institute of Technology
Karnataka, Surathkal,
Mangalore - 575 025**

In Association with

PantechProEd Pvt. Ltd.,



ABOUT THE COURSE

De-dc power converters are employed in a variety of applications, including power supplies for personal computers, office equipment, spacecraft power systems, laptop computers, and telecommunications equipment, as well as dc motor drives. This course deals about the Converter Design, Controller Design and Fabrication of the basic dc to dc converters. The controller design topic deals about dSPIC30F4011 Microchip DSP Controller.

SCOPE OF THE COURSE

The following topics will be covered:

- Introduction to power Electronics
- Introduction to DC - DC Converters
- Introduction to dSPIC30F4011
- MATLAB | MPLAB
- MATLAB to MPLAB Code conversion
- Design calculation
- Simulation of DC - DC Buck & Boost Converters
- Choosing Switches | Capacitors | Diodes
- Design and Fabrication of Inductor
- Gate Driver Design
- Fabrication of DC - DC Buck & Boost Converter
- Measurement of Voltage and Current
- Open/Closed Loop Design of DC - DC Buck Boost Converter

About NITK-STEP

NITK-STEP (formerly KREC-STEP) was established on 31st August 1994 in KREC campus. It is situated in an independent location in the complex of NITK about 23 K.M. from Mangalore

city, adjacent to N.H. 66 and adjoining the Arabian Sea beach. Out of 16500 sft. built up area, 8500 sft. consists of Entrepreneurs' Block and the remaining area comprises of computer laboratory, conference hall and administrative block. It is an entrepreneurial driven self sustaining body.

REGISTRATION FEE

The registration fee for

- Faculty/Industry persons- Rs.4000/-
- Students(UG/PG/PhD)-Rs.3500/-

The registration fee includes registration kit, lunch and refreshments for all the days. Limited accommodation for the participants will be provided in the institute guest house / hostels on request (**chargeable basis**). Normally it will be a twin shared accommodation.

With a view to give individual attention to the participants and to make the program more effective, the number of participants is restricted to about 60.

IMPORTANT DATES

Completed Registration forms accompanied by registration fee (in the form of DD) should reach the coordinator not later than

30th November 2018.

The selected candidates will be intimated by **3rd December 2018** through e-mail / phone.

REGISTRATION FORM

**One Week STC on
Power Converter Design
Organized by NITK-STEP &
EEE Department, NITK Surathkal, Karnataka
17.12.2018 to 21.12.2018**

Name: _____

Designation: _____

Organization: _____

Official Address: _____

Mobile/Telephone: _____

e-mail: _____

Accommodation Required: _____ (Yes / No)

Payment Details

Online AC Transfer/DD No.: _____

Date: _____ Rs. : _____

(DD should be drawn in favor of "The Co-ordinator ,NITK-STEP, Surathkal" payable at Canara bank, NITK Surathkal campus , Canara Bank A/C# 8517101000111 -Online transfer- mention STC-PCD-DEC2018.)

Date: _____

Signature: _____