

**A Self-Financed Online Short
Term Course on
Design and Control of Power
Electronic Converters and its
Applications**

19 – 23 October, 2020

Organized by

NITK-STEP

&

Department of

Electrical & Electronics Engineering

National Institute of Technology Karnataka,

Surathkal,

Mangalore - 575 025



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.

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.

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.

ABOUT THE COURSE

Power Electronic converters are employed in a variety of applications including Switch Mode Power Supplies, Motor Drives, Renewable Energy Conversion systems, Power Systems, Electric Vehicles etc., This course covers the Design, Operation and Control of Power Converters for different applications.

SCOPE OF THE COURSE

The following topics will be covered:

- Switch Mode Power Supplies
- Design of DC - DC Converters
- Design of Multistring Inverters for Micro-Grid
- Design of Power Converters for Solar Energy Conversion
- Design of Multi-level Inverter Topologies.
- Power Converters for Electric Vehicles
- Power Quality Improvement

COORDINATORS

Dr. B. Dastagiri Reddy

Dr. Y. Suresh

Dr. V. Vignesh Kumar

Dr. H. Nagendrappa

Dr. B. Venkatesa Perumal

Department of

Electrical & Electronics Engineering

National Institute of Technology Karnataka,

Surathkal,

Mangalore-575025

REGISTRATION FEE

The registration fee for

- Faculty/Industry persons- Rs.350/-
- Students(UG/PG/PhD)-Rs.250/-

HOW TO APPLY

A dully filled in registration form in the prescribed format along with screen shot of transaction details should be uploaded in the google form on or before last date.

Link for Registration:

<https://forms.gle/YbTCDG24D2geGYRe7>

- This short term course will be on virtual mode, the coordinator(s) will send the details for joining the online sessions to the email ID of the registered participants.
- E-Certificate will be provided to the participant with no absenteeism.

IMPORTANT DATES

Duration of STC: 19.10.2020 – 23.10.2020

Last date of registration: 10.10.2020

Confirmation by E-mail: 14.10.2020

Course Timings: 6.00 p.m. – 8.00 p.m.

BANK DETAILS FOR ONLINE TRANSFER

Account Name: Director-STEP

Account No.: 8517101005614

Bank Name: Canara Bank

Branch: NITK Campus, Surathkal, Mangalore

IFSC code: CNRB0008517



Registration fee can also be paid
by scanning this QR code:



CONTACT INFORMATION

Dr. B. Dastagiri Reddy, Assistant Professor, EEE

Email: dastagiri.reddy@nitk.edu.in

Dr. Y. Suresh, Assistant Professor, EEE

Email: ysuresh.ee@nitk.edu.in

Dr. V. Vignesh Kumar, Assistant Professor, EEE

Email: v.vigneshkumar@nitk.edu.in

Dr. H. Nagendrappa, Assistant Professor, EEE

Email: nagendrappa@nitk.edu.in

National Institute of Technology Karnataka,
Surathkal, Mangalore, Karnataka – 575 025

Mobile: 7358895065, 7411069506, 7598050420

Dr. B. Venkatesa Perumal

Professor-EEE, Professor-In-Charge NITK-STEP

National Institute of Technology Karnataka,
Surathkal, Mangalore, Karnataka – 575 025

Email: bvperumal@nitk.edu.in

REGISTRATION FORM

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Design and Control of Power Electronic
Converters and its Applications*

*Organized by NITK-STEP &
Department of EEE, NITK Surathkal, Karnataka
19 – 23 October, 2020*

Name: _____

Designation: _____

Highest Qualification: _____

Organization: _____

Official Address: _____

Mobile/Telephone: _____

E-mail: _____

Registration Fee paid: _____

Online transaction reference No. & date:

Place:

Date:

Name & Signature of Participant