About the Institute

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and was upgraded as a National Institute of Technology on 4th October, 2002. SVNIT is one of the pioneering engineering institutions of the country which has contributed many outstanding engineers in India & abroad. It is conducting six UG programs, nineteen PG programs (in addition to three integrated M.Sc. programs) and Ph.D. programs in all disciplines of engineering and applied sciences. Special attention is given to interdisciplinary research. The institute has an excellent placement record with a number of top-ranking companies visiting the campus every year.

About the Department

The department is one of the pioneering departments of the Institute. Over the years, the department has progressed at a rapid pace with development in both the spheres of infrastructure facilities and academic programs. The department has highly qualified faculty members engaged in teaching and research with the aim of achieving excellence in the field of Electrical Engineering. The department offers an Undergraduate course in Electrical Engineering and Postgraduate programs in Power Electronics & Electrical Drives, Power Systems and Instrumentations & Control. The department offers a Ph.D. program to promote basic research activities in the various areas of Electrical Engineering. The consultancy and testing services are also rendered by the department.

About the Surat

Surat is a top ranking industrial city of the country with clean wide roads. It is well known worldwide for textiles, Zari and Diamond industries. Several large scale industries and establishments are located in the city. Surat is situated on the main western railway route between Vadodara and Mumbai. The institute is located at Ichchanath on Surat-Dumas road at a distance of about 10 km from Surat railway station.

About the Short Term Course

One-week online short-term Course aims to highlight the recent trends in research of Power & Control Strategy for Net-Zero Emissions. Many nations and organizations are working toward achieving net-zero emissions. The objective of this Course is to contribute to mission 'Net-Zero Concept', which is one of the most promising solutions for sustainable development combating environmental pollution and also deal with fossil fuel crisis. Implementation of emerging control strategy that contributes to 'Net-Zero emission' is the utmost need for our society. Reducing emissions from current sources is the first step towards a net-zero emissions management approach. This can be accomplished by taking energy-saving measures, switching to green transport with electric vehicle and alternative renewable energy sources. This Short Term Course will offer an exclusive opportunity to the experts from prestigious institutions, important industries, notable experts working in the area of Net-Zero and Research scholars to share their experiences, novel ideas, practical problems faced and the probable solution to it. The Course consists of lecture/presentation/laboratory by invited speakers from academic institutes, industries and R&D organizations.

Topics to be covered:

The course shall discuss

- Introduction to Net-Zero Emissions
- Emerging Green Technology
- Power generation and control for Net-Zero
- Advanced Control System for Net-Zero
- Power Electronics converters Strategy for Net-Zero
- Future projection of Electric Vehicle
- Emerging Power Electronics in EV for Net-Zero concept
- Progression in Charging Infrastructure
- Machine learning for Net-Zero
- Importance of emerging role of Smart Grids for EV and Renewable integrated Power for Net-Zero

Call for Participation

One-Week Short Term Course (Online)

Power & Control Strategy for Net-Zero Emissions (PCSN-2023)

20-24 February 2023

Course Coordinators

Dr. Sukanta Halder, Assistant Professor
Dr. Rakesh Maurya, Associate Professor
Dr. Sabha Raj Arya, Associate Professor
Dr. S. N. Sharma, Professor

Organized by
Department of Electrical Engineering
Sardar Vallabhbhai National Institute of Technology, Surat.
(An Institute of National Importance of Govt. of India)
Surat-395007, Gujarat, India

Registration and General Information

The Course will be organized through google meet. Applications for the participation in the 'course' should fill in the Google Form by clicking 'https://forms.gle/e2rr6M3ZaewMMhKs5' below. The participants are required to send the application form and Payment details to the following email. **PCSNSVNIT23@gmail.com**
Link: https://forms.gle/e2rr6M3ZaewMMhKs5
The payment can be found at the Course fee section.

Instructions to fill the Google form

- In google form all fields are mandatory.
- Participants have to attach the scanned copies of the Filled Registration Form and Payment Details.
- Alternatively, the participants can send the application on the following email id as well

PCSNSVNIT23@gmail.com

The last date of registration is

19 February, 2023

The candidates would be informed of their selection through E-mail by

19 February, 2023

The participants should attend all the sessions.

Address for Communications, if any

Dr. Sukanta Halder (sukanta.h@eed.svnit.ac.in)
Dr. Rakesh Maurya (rmaurya@eed.svnit.ac.in)
Dr. Sabha Raj Arya (sra@eed.svnit.ac.in)
Dr. S. N. Sharma, (sns@eed.svnit.ac.in)

Organizing Committee
Department of Electrical Engineering
S. V. National Institute of Technology,
Ichchhanath, SURAT, Gujarat, 395007.

Mobile: 9027425536, 8849823704, 8511034177, 8866093530

Course Fee

Research Scholars: UG/PG/Ph.D. : Rs 200 + 18% GST
Academicians/Scientists/Researchers: Rs 300 + 18% GST
Delegates from Industries : Rs 500 + 18% GST

The non-refundable registration fee should be sent through **Net-banking/Online Payment.**

Bank Account Name	:	Director, SVNIT-CCE
SBI Account No.	:	37030749143
Bank Name	:	State Bank of India
IFSC Code	:	SBIN0003320
Branch	:	SVRCET Branch, Ichchhanath, Surat, Gujarat, 395007.

While paying through the net-banking, in remarks the purpose is to be written as **"PCSN SVNIT".**

(Kindly save the receipt or take screenshot of the payment)

Who Can Apply?

- Research Scholars
- Teachers of Engineering Colleges
- Practicing Engineers from industries
- PG/UG students

Patron

- Prof. Anupam Shukla, Director, SVNIT, Surat.

Organizing Committee

- All faculty members of DoED, SVNIT, Surat.

Resource Persons

- Academicians from IITs/NITs and other Professionals

Other Instructions

- This STC will be conducted through Google Meet platform, so the participants should be equipped with the necessary infrastructure.
- In case of any query, feel free to contact the course coordinators.
- Google meet link will be shared to participants prior to the session starts.
- The certificates will be issued based on their attendance in the technical sessions

Registration Form

One-Week Short Term Course (Online)

On

Power & Control Strategy for Net-Zero Emissions (PCSN-2023)

20-24 February, 2023

Full Name:

Designation:

Department & Institution with Address:

Male/Female:
Mobile:
E-mail (Gmail):
Date of Birth:
Academic Qualifications:

Experience (Years):
Teaching:
Research:
Industry:

Payment Receipt No. :

I declare that the details furnished above are correct to the best of my knowledge and belief. I also undertake to abide by the rules and other conditions prescribed by SVNIT, Surat.

Signature of the Applicant