

About the Institute

The institute, one of the pioneering engineering institutions of the country, was established in 1961 as Sardar Vallabhbhai Regional College of Engineering & Technology and was given the status of National Institute of Technology in 2002. At present, there are 11 undergraduate courses, seventeen postgraduate courses, and Ph.D. programs in all disciplines of engineering and applied sciences. It has an excellent placement record, and many top-ranking companies visit the campus.

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 Training Program

Embark on transformative journey into the realm of sustainable leadership with our intensive five-day online Short Term Training Program (e-STTP). This program is tailored to empower the participants with expertise in smart renewable and e-mobility system with an objective of innovative and eco-friendly solutions to achieve net zero targets. Throughout the program, participants will delve into key topics such as AI and ML enabled promising tool to facilitate large integration of renewables and EVs, energy management and optimization systems, demand response, intelligent charging infrastructure, G2V and V2G operations, cyber physical systems, Internet of Things (IoT) integration. This comprehensive program aims to equip professionals with a blend of theoretical depth and practical dynamic practical approach to implement AI and ML technologies to forsee the sustainable development. The program consists of lecture/presentation/laboratory by invited speakers from academic institutes, industries and R&D organizations.

Topics to be covered:

The program shall discuss

- Introduction to energy sustainability, renewables and E-mobility
- Advancement in renewable energy systems
- Emerging trends in E-mobility
- Energy storage system
- Innovative AI and ML applications in energy and/ or transport sectors
- Integrated energy and e-mobility modelling
- Smart charging and operations of EVs
- EVs driving behavior analysis
- Intelligent Demand Response Program
- Power Electronics converters and its smart control for renewables and EVs.
- Smart utilization of energy storage
- V2G and G2V Technology
- IoT Integration
- Cyber physical systems

Call for Participation

One-Week Short-Term Training Program (Online)

on

Smart and Sustainable Strategy for Renewable Energy and E-Mobility (SUSTAIN-E 2024)

23-27 September 2024

Coordinators

Dr. Akanksha Shukla

Dr. Varsha A. Shah

Dr. Basant K. Sethi



Organized by



**Department of Electrical Engineering
S.V. National Institute of Technology
Surat Gujarat, India– 395007**

(An autonomous Institute under the aegis of the Ministry of Education, Govt. of India)
website: <http://www.svnit.ac.in>

Course Fee

| Participant Category | Registration Fees |
|-------------------------------|-------------------|
| Students: UG/PG/Ph.D | Rs 300 + 18% GST |
| Academicians | Rs 350 + 18% GST |
| Industry Person/ Engineers | Rs 1000 + 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 “**SUSTAIN-E24 SVNIT**”.

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

Address for any Communications

Dr. Akanksha Shukla (ashukla@eed.svnit.ac.in)

Dr. Basant K. Sethi (bks@eed.svnit.ac.in)

Organizing Committee

Department of Electrical Engineering

S. V. National Institute of Technology,
Ichchhanath, SURAT, Gujarat, 395007.

Mobile: 9772131431, 7008392721

Patron

Prof. Anupam Shukla,
Director, SVNIT, Surat

Convenor

Prof. Pranav. B. Darji,
HoD DoEE, SVNIT, Surat

Organizing Committee

All faculty members of DoEE,
SVNIT, Surat

Resource Persons

Academicians from IITs/NITs and
other Professionals

Who Can Apply?

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

Other Instructions

- This STTP will be conducted through Google Meet platform.
- 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.
- Certificates will be awarded to the participant who attends 75% of the sessions and successfully completes the STTP.

Registration and General Information

The program will be organized through google meet. Participants are requested to complete the registration process using the QR link.



You are requested to upload the necessary documents after paying the registration fee.

REGISTRATION FORM

<https://forms.gle/yniTyZ9FskjeAMsP8>

All the communication regarding this STTP will be done through the following email

sustain_e24@gmail.com

The last date of registration is

18 September 2024

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

20 September 2024

The participants should attend all the sessions