

Course Objectives

IEEE Gujarat Section Jt. Chapter of IE-IA-PEL Societies brings you an in-person training program on 'Recent Advancements in Electric Transportation from 02-06 Dec'24 at SVNIT Surat.

The in-person workshop will cover various topics, including the selection of motors for EV applications and the control of converters specifically designed for these vehicles. Participants will learn about fault detection, the reconfiguration of high-power converters used in transportation, and adjustable speed drives for marine applications. The workshop will also focus on controlling five-phase induction motors for EVs and explore predictive control strategies for Interior Permanent Magnet Synchronous Motor (PMSM) drives. Additionally, advancements in battery chargers, renewable energy sources integration, Vehicle-to-Grid (V2G), and Grid-to-Vehicle (G2V) functions will be discussed, providing a comprehensive overview of these critical areas.

Researchers, industry professionals, faculty members, and engineering students are invited to join this event and find an environment tailored for exchanging knowledge and establishing collaborations and networking.

Topics to be Covered

- Selection of motors for EV applications
- Control of converter for EV applications
- Fault detection and reconfiguration of power converters for transportation applications
- Adjustable speed drives used for marine applications
- Five-phase induction motor for EV applications
- Predictive control strategies for Interior PMSM drive for EV applications
- Battery chargers' advancements
- Renewable Energy Sources Integration, V2G and G2V functions

Major Highlights

- Industry experts in e-mobility will feature at this face-to-face event.
- Laboratory sessions on e-mobility advancements.
- Elaboration of development aspects of EV
- **One-day Field Trip**

Eminent Speakers

- Uday Mhaskar - KPIT, Pune
- Seshadri Gopalan - Danfoss Drives, Chennai
- Deepak Fulwani - IIT, Jodhpur
- K. Ragavan - IIT, Gandhinagar
- Manoj Rathi, Director, RCSS Pvt. Ltd, Nasik
- Anchal Saxena, Principal Technical Specialist, Varroc Engg. Ltd., Pune
- Vijay Shah – ABB, Vadodara

Address for Communication



Department of Electrical Engineering,
S. V. National Institute of Technology,
Ichchhanath, surat-395 007, Gujarat.

Phone: 0261-2201581.

E-mail: raet.svnit@gmail.com

Call for Participation

One Week Short-Term Training Program
(Physical Mode)
on

**Recent Advancements in Electric
Transportation**

(RAiET-2024)

02 – 06 December 2024

Organized by



Department of Electrical Engineering
S. V. National Institute of Technology
Ichchhanath, Surat-395 007, Gujarat

&

**IEEE Gujarat
Section**
IES-IAS-PELS JOINT CHAPTER

IEEE Gujarat Section Jt. Chapter of IE-IA-PEL

Societies

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SCLA GRANT 2024

Registration and General Information

Applications for participation in the 'course' should fill in the Google Form using the following link.

<https://forms.gle/UMpdhVSMiGTekn8CA>

Instructions to fill out the Google Form

- All fields mentioned in the Google Form are mandatory.
- Participants must attach scanned copies of the Filled Registration Form, Payment Details, and Institute ID card.
- Alternatively, the participants can send the application to the following email ID raet.svnit@gmail.com

Course Fee

Category	IEEE Member	Non-IEEE Member
Academicians / Scientists/ Researchers	Rs. 1500	Rs. 2000
Students (UG/PG/PhD)	Rs. 500	Rs. 750
Practicing Engineers / Professionals	Rs. 2500	

The non-refundable registration fee should be deposited through **net banking/UPI Payment to the account details below.**

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 net banking, in remarks, the purpose is to be written as "RAiET 2024 Registration Form." **(Kindly save the receipt or take a screenshot of the payment)**

Important Dates

- Last date of Registration: **25th November 2024**
- Notification Confirmation: **27th November 2024**

Accommodation

Accommodation to the **outside** participants will be available at institute guest house **on request**, made well in advance **at an additional cost**. Refer following URL for more details:

<https://www.svnit.ac.in/web/guesthouse.php>

Organising Team

Patron:

Prof. Anupam Shukla, Director, SVNIT, Surat

Co-patron:

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

Organizing Committee:

Dr. Mahmadasraf A. Mulla, Dr. Amit Ved, Dr. Priyesh Chauhan, Dr. Anil Kumar Roy, Dr. Pallavi Bharadwaj, Dr. Aeidapu M, Dr. Manisha Shah, Dr. Manisha Shukla, IEEE, IEEE Gujarat Section, IAS, IES, and PELS.

Organizing Coordinators:

Dr. Mahmadasraf A. Mulla
Prof. V. A. Shah
Prof. A. K. Panchal
Prof. R. Chudamani
Dr. Sanjay Tolani
Dr. Chandani Gor

Scan QR



Registration Form

One Week Short-Term Training Program
(Physical Mode)
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Recent Advancements in Electric Transportation (RAiET-2024)

02 – 06 December 2024

Full Name:

Designation:

Department & Institution with Address:

Member IEEE: Yes/No, Mem. No. _____

Male/Female:

Mobile:

Open/OBC/SC/ST:

E-mail:

Date of Birth:

Academic Qualifications:

Experience (Years):

Teaching:

Research:

Industry:

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

Signature of the Applicant

Place:

Date: