## AICTE Training and Learning (ATAL) Academy

ATAL Academy was established with a Vision to empower faculty to achieve goals of Higher Education such as access, equity and quality.
The objectives of ATAL FDP are:
- ❖ To support technical institutions in fostering research. innovation and entrepreneurship through training.
- ❖ To stress upon empowering technical teachers & technicians using ICT.
- ❖ To provide a variety of opportunities for training and exchange of experiences such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.

## 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.

## Patron

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

## Organizing Committee

All faculty members of DoEE, SVNIT, Surat

## Program Coordinator

**Dr. Pranav B. Darji**,
Professor, HoD DoEE,
SVNIT Surat

## Program Co-Coordinator

**Dr. Akanksha Shukla**
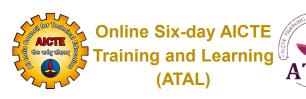Assistant Professor, DoEE,
SVNIT Surat

## Important Dates

**Last date for registration: Nov. 29, 2024**
**Intimation of selection: Nov. 30, 2024**
**Confirmation by participants: Dec. 01, 2024**
**Date of FDP: Dec. 02-07, 2024**

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**Online Six-day AICTE Training and Learning (ATAL)**

**Faculty Development Program on**

# PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities

**02-07 December, 2024**

**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

## About the FDP

This Faculty Development Program (FDP) focuses on advancing both the theoretical knowledge and practical skills required to seamlessly incorporate renewable energy sources with sustainable mobility systems. Participants will gain insights into fostering eco-friendly and resilient smart cities by employing AI, ML and IoT enabled approaches contributing to a cleaner and more sustainable urban future.

Key objectives of the program include:
- ❏ Exploring the convergence of renewable energy and e-mobility technologies
- ❏ Understanding the role of smart grids
- ❏ Investigating policy frameworks and strategies
- ❏ Developing expertise in V2G and G2V operations
- ❏ Addressing DER and EV integration challenges.

## Course Content

The program shall discuss

- Foundations of Smart Cities and Renewable Energy
- Electric Vehicles (EVs) and Charging Infrastructure: design, deployment, intelligent charging systems, G2V and V2G operations.
- Energy Management and Optimization Systems for smart grids embedded with renewable energy: role of EMS, AI driven DSM techniques.
- Innovative AI, ML and IoT applications in energy and/ or transport sectors: energy forecasting, grid optimization, predictive maintenance, energy monitoring, cybersecurity.
- Integrated energy, e-mobility and smart grid modelling: intelligent transportation system, microgrids.
- Policy Frameworks, Case Studies, and Future Trends

## Resource Persons

The resource person for the FDP are from renowned universities/institutes and leading industries. They are expert in the area of renewable energy and e-mobility modelling intelligent transportation system, optimization.

## Registration and Other Details

There is No Charge for Registration, Course and Certification for participants. Eligible participants will be notified by the email. .

## Who Can Participate

- Faculty members of the AICTE approved institutions
- Research scholars and PG students
- Personnel from government sector, research and development, and industries

## How to Apply

Registration is mandatory to attend FDP. Registration has to be done through ATAL portal (https://atalacademy.aicte-india.org/login).

## Guidelines

- FDP will be held in online mode.
- Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail only.
- In case of any query, feel free to contact the course coordinators.
- On the last day of the program an assessment test will be conducted for all participants.
- Digital certificates will be issued by the AICTE Training and Learning (ATAL) Academy to participants who achieve at least 80% attendance and a minimum score of 70% on the assessment.