

About the FDP

The AICTE ATAL sponsored Faculty Development Programme on “Quantum Computing Applications in Electric Vehicle and Power System Engineering” is a six-day program designed to provide in-depth knowledge of emerging EV technologies and advanced computational approaches. The FDP covers key topics such as EV architecture, electric drives, battery technologies, charging infrastructure, and power electronics. It also introduces quantum computing concepts and their applications in energy and transportation systems. Delivered by experts from IITs, IISc, NITK, and industry, the programme includes hands-on sessions, research article discussions, and an industrial visit to NTPC Kudgi, offering participants practical exposure and interdisciplinary research opportunities.

Eligibility to Participate

Students of UG/PG/Academic Institutes/ Ph. D. Scholars belonging to all the disciplines of Science, Arts and Technology are eligible to attend.

Registration Fee: *There is no registration fee for the program. Since the program is sponsored by AICTE Training and Learning (ATAL), New Delhi. Registration will be based on a First come First Serve basis. The interested Candidates are requested to complete the online registration.*

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Convener/ Coordinator:

Dr. Mohammad Ziaullah, Assc. Prof., SIET.

Dr. Wasim Nidgundi, Assc. Prof., SIET.

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3. **Dr. Kiran R Patil**, KLE Tech University, Hubali
4. **Dr. Arunkumar Patil**, CUK Kalaburagi
5. **Dr. Vinod Patil**, KLE Tech University, Hubali
6. **Mr. Anupkumar**, Battery Expert, & Technical lead, Hubali
7. **Mr. Anantnag K**, Founder and CEO, Pyagyan EduSec Pvt Ltd, Hubali
8. **Mr. Aman**, Co-Founder and COO, Pyagyan EduSec Pvt Ltd, Hubali
9. **Dr. Wasim Nidgundi**, SIET, Vijayapur
10. **Dr. Md. Ziaullah**, SIET, Vijayapur

Industrial visit
to Wardha Solar Maharashtra Pvt Ltd, 50MW
Solar Power Plant, Yatanaal Vijayapura

A Six Day AICTE-ATAL Sponsored ON “Quantum Computing Applications in Electric Vehicle and Power System Engineering”

05th -10th October 2026

Organized by
Department of Electrical and Electronics
Engineering



**SECAB INSTITUTE OF ENGINEERING AND
TECHNOLOGY, VIJAYAPUR KARNATAKA,
(INDIA).**

SECAB Campus, Bagalkot Road,
Jala Nagar / Naurasapur,
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About The Institution

SECAB Institute of Engineering and Technology (SIET) is the brainchild of the visionary and founder of the Institute Late. Dr S.A Punekar. It was established in 2002 and then onwards its fame and name ameliorated to multitudes, making it a prestigious engineering college affiliated to Visvesvaraya Technological University (VTU) and approved by AICTE. Over the years, SIET evolved and achieved recognition as a notable School of Engineering. The competent and committed faculty, high-quality infrastructure, latest teaching aids are infused together to meet International Standards. The smart classrooms and modern infrastructure provide an appealing ambience for academics with no compromise on the facilities.

About The Department

The Department of Electrical and Electronics Engineering at SECAB Institute of Engineering and Technology is committed to excellence in teaching, research, and innovation. Established in 2009, the department offers a B.E. program with a strong foundation in electrical sciences and modern technologies. It is equipped with well-developed laboratories and experienced faculty, promoting practical learning and technical skills. The department actively organizes workshops, seminars, and industrial visits to enhance industry exposure.

With focus areas including power systems, renewable energy, and electric vehicles, it encourages research and higher studies, aiming to produce skilled engineers capable of addressing real-world engineering challenges

Learning Objectives

The objective of this FDP is to provide participants with a foundational understanding of quantum computing concepts and their relevance to electric vehicles and power system engineering. It aims to bridge classical and quantum approaches for solving complex engineering problems. The program focuses on applications such as battery optimization, smart charging, grid stability, and renewable energy integration. Participants will gain hands-on experience with quantum tools like Qiskit and Cirq. The FDP also encourages interdisciplinary research, innovation, and collaboration, enabling faculty to explore advanced computational techniques for efficient energy systems and next-generation electric mobility solutions.

Outcomes of FDP

At the end of this FDP on *Quantum Computing Applications in Electric Vehicle and Power System Engineering*, participants will gain a comprehensive understanding of EV technologies, power system challenges, and the fundamentals of quantum computing.

They will be able to analyze complex optimization problems related to energy management, smart grids, and EV charging using quantum approaches. Participants will develop insights into advanced simulation techniques, battery optimization, and grid stability enhancement. They will also be equipped to explore interdisciplinary research opportunities, apply emerging tools in real-world scenarios, and contribute to innovative, sustainable solutions in electric mobility and modern power systems.

Organizing Committee

1. Dr. A.M. Mulla

Professor.

2. Prof. Shivaram Jalapur

Assistant Professor

3. Prof. Anand Dodamani

Assistant Professor

4. Prof. Swaliya Mulla

Assistant Professor

5. Prof. Masuda M Fairozabad

Assistant Professor

6. Ms. Anjum Nadaf, IEEE

Student Branch Chair

7. Ms. Falaknaz Naik,

IEEE Student Branch Secretary