ABOUT PSG iTech:

PSG Institute of Technology and Applied Research (PSG iTech), the latest initiative of PSG and Sons' Charities, aims to empower youth through technical education. The institute offers various engineering disciplines, with a focus on learning, industry engagement, innovative and inclusive pedagogy, and ethics. It aims at effective transfer of knowledge, pursuit of truth and moulding students into ideal citizens, and has quickly become one of the most preferred institutions for engineering aspirants in Tamil Nadu.

ABOUT ECE Department:

B.E. Electronics and Communication Engineering is the flagship programme of the department. It provides students with a strong foundation in core areas such as electronics, communication, and computing, while also emphasizing problem-solving and innovation. The curriculum is designed to balance theoretical knowledge with practical application, ensuring students gain exposure through laboratory work, projects, and industry interactions. This programme has produced successful graduates who are contributing in diverse sectors including telecommunications, IT, embedded systems, and research.

ORGANIZING COMMITTEE

CHIEF PATRON:

Shri. L. Gopalakrishnan
Managing Trustee
PSG & Son's Charities

PATRON:

Dr. P.V. Mohanram
Secretary

Dr. N. Saravanakumar
Principal

CONVENER:

Dr. P. Vijayakumar
Professor & Head - Dept. of ECE

CO-ORDINATORS:

Dr. M. Jayasanthi
Professor - Dept. of ECE

Dr. D. Selvakumar
Associate Professor - Dept. of ECE

VENUE: (OFFLINE MODE)

ECE DEPARTMENT : E4 SEMINAR HALL

CONTACT DETAILS:

Email: jayasanthiranjith@psgitech.ac.in / selvakumar@psgitech.ac.in

Call: +91 96295 90251 /+91 9994372244

PSG Institute of Technology and Applied Research
(An Autonomous Institution)
Approved by AICTE
Affiliated to Anna University

Department of ECE

Organizes

SHORT-TERM TRAINING PROGRAMME ON QUANTUM COMPUTING: FROM QUBITS TO QUANTUM FRONTIERS

07/12/2026 - 12/12/2026

in association with

FOUNDATION FOR QC INNOVATION

DST-NQM T-Hub for Quantum Computing at Indian Institute of Science (IISc)

ABOUT FQCI:

The Foundation for QC Innovation is a Quantum Computing Thematic Hub (T-Hub), set up as a Section-8 company (not-for-profit) by Indian Institute of Science, Bengaluru, under the National Quantum Mission (NQM), implemented by the Department of Science and Technology (DST), Government of India.

The T-Hub is a transformative initiative designed to advance quantum computing technology while building a robust national ecosystem.

ABOUT THE PROGRAMME:

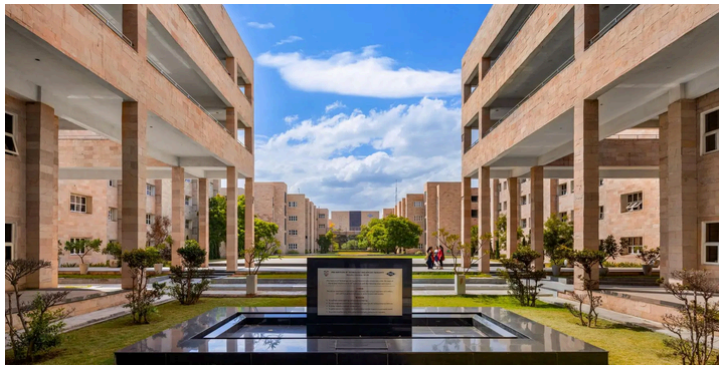
Quantum Computing is an emerging technology with applications in AI, cybersecurity, optimization and scientific computing. This six-day STTP covers the field from theoretical foundations to hardware, programming frameworks and emerging applications, combining expert lectures, demonstrations and hands-on sessions to bridge concepts and practice.

OBJECTIVES OF THE STTP:

- ✓ To introduce quantum computing fundamentals, gates, circuits
- ✓ To provide hands-on exposure to Quantum algorithms and Quantum Tools
- ✓ To explore Quantum ML, Quantum AI, cryptography and research opportunities

TOPICS TO BE COVERED:

- ✓ Introduction to Quantum Computing, Algorithms and Applications
- ✓ Quantum Computing Hardware and Processors
- ✓ Quantum Gates and Quantum Circuits
- ✓ Hands-on Training on Quantum Computing
- ✓ Quantum-Centric Supercomputing
- ✓ Quantum Machine Learning and Artificial Intelligence
- ✓ Superconducting Qubit Simulation and Layout Generation
- ✓ Quantum Error Correction
- ✓ Advanced Quantum Algorithms
- ✓ Quantum Cryptography
- ✓ Quantum Opportunities, Challenges and Future Directions



Avinashi Road, Neelambur, Coimbatore – 641062

RESOURCE PERSONS:

Faculty members from IITs, NITs, CFTIs, reputed institutions, and experienced industry professionals.

WHO SHOULD ATTEND?

Registration is open to **Faculty members, UG/PG Students** and **Researchers** from relevant discipline of AICTE approved Institution and **Industrialists.**

REGISTRATION FEE: ₹1000

Accomodation will be provided on payment basis

REGISTRATION CLOSES ON:
03/12/2026

REGISTRATION LINK:

https://events.psginstitutions.in/EMS/register/75E7205D239