



Two Days Hybrid Workshop on Quantum Computing and Its Applications

14th and 15th October 2026



Organized by

**Department of Quantum AI
School of Computer Science and
Engineering (SCOPE)**

Vellore Institute of Technology, Vellore – 632 014



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Dr. Sathiya Kumar C, HoD, Department of Quantum AI, SCOPE

Coordinators

Dr. Adrija Bhattacharya

Assistant Professor, Department of Quantum AI

Dr. Samriddhi Sarkar

Assistant Professor, Department of Quantum AI

Target Participants

UG & PG Students

Research Scholars

Academicians

Contents of the Programme

- **Session 1: Basics of Quantum Technology**
Quantum computing fundamentals, qubits, quantum states and technology landscape
- **Session 2: Post-Quantum Cryptography (PQC)**
Quantum-safe cryptography, post-quantum algorithms and security transition
- **Session 3: Hands-on Quantum**
Guided practical exposure to quantum programming and experimentation
- **Session 4: QML and Applications**
Quantum Machine Learning concepts, workflows and applications
- Resource experts from academia, industry and IBM Quantum
- Two-day hybrid format connecting foundations, security, practical quantum computing and QML

Target Audience

UG and PG students, Research Scholars, Faculty members

Registration

Fee

- **External participants:** INR 499 (inclusive of 18% GST)
- **Internal participants:** INR 299 (inclusive of 18% GST)
- Registration charges include snacks (for offline participants), participation certificate and course material in soft copy (for all).

Registration deadline: 10th October 2026

About VIT

Our Memoranda of Understanding with various international universities are our major strength. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities. Many of our students, who pursue their research projects in foreign universities, bring high quality to their work and esteem to India and have done us proud. With steady steps, we continue our march forward.

VIT at a Glance

- **Founded:** 1984, as Vellore Engineering College, by Dr. G. Viswanathan
- **Status:** Deemed to be University since 2001
- **Campuses:** Vellore, Chennai, Andhra Pradesh and Bhopal
- **Accreditation:** NAAC A++ grade
- **Community:** 40,000+ students from across India and 60+ countries

About SCOPE

- Department of Analytics
- Department of Computational Intelligence
- Department of Database Systems
- Department of Software Systems
- Department of Information Security
- Department of IoT
- Department of Quantum AI

About the Workshop

The programme connects foundational concepts with practical exposure and applications through sessions led by resource experts.

- **Session 1:** Basics of Quantum Technology
- **Session 2:** Post-Quantum Cryptography (PQC)

Speakers

- 1. Mr. Shakthi Ganesh**
CTO, Co-founder; Quantum Machine Learning (QML) Developer, KwantumG Research Labs Pvt Ltd, Bengaluru
- 2. Dr. Nayana Das**
Research Engineer, LTIMindtree; Expert in quantum communication and post-quantum cryptography, Kolkata
- 3. Ms. Debarthi Pal**
Research Engineer, IBM Quantum, Bengaluru
- 4. Prof. Amlan Chakrabarti**
Professor and Director, A.K. Choudhury School of IT, University of Calcutta; Visiting Prof., Dept. of AI, IIT Kharagpur; Adj. Prof., IIIT Delhi

Workshop at a Glance

- **Dates:** 14th and 15th October 2026
- **Mode:** Hybrid (online and offline)
- **Fee:** INR 499 external / INR 299 internal (incl. 18% GST)
- **Register by:** 10th October 2026

How to Register

Participants are requested to register for the workshop through the following web link:



Scan the QR code or visit:
<https://events.vit.ac.in/>