About SCOPE

The school has one of the best infrastructures including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices, employ innovative approaches in programming and problem solving, and create large scale software systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies. The school has formed Department of Analytics, Computational Intelligence, Database Systems, Information Security, IoT and Quantum AI.

About the event

This workshop delivers hands-on training in the mathematical and conceptual foundations of quantum computing, connecting linear algebra concepts like complex vector spaces and Dirac notation with real-world quantum systems. Participants will explore key quantum phenomena such as superposition, entanglement, and measurement while developing and simulating quantum circuits. The program also introduces Quantum Algorithms, Quantum Machine Learning (QML), Quantum Neural Networks (QNNs), enabling learners to design simple models for basic learning tasks. By combining theory with practical implementation, this workshop equips researchers, developers, and enthusiasts with the skills needed to effectively work with quantum programming tools and simulators.

SDG Goals: SDG 4: Quality Education, SDG 8: Decent Work and Economic Growth, SDG 9: Industry, Innovation, and Infrastructure, SDG 10: Reduced Inequalities and SDG 17: Partnerships for the Goals

Resource Persons

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Eligibility: The workshop is open to Faculties, Research Scholars and UG/PG students. Fees are non-refundable once the registration process is complete.

Mode: Hybrid

Registration Amount: Rs. 295/- (Inclusive GST)

Registration Link: https://events.vit.ac.in/

VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

One day Workshop on Build Your First Quantum Algorithms: Hands-on with QFT, QML and QNN

8th May, 2026

Organized by

Department of Quantum AI

School of Computer Science and Engineering

Vellore Institute of Technology, Vellore, India-632014