



School of Electronics Engineering (SENSE)
organizes

A ONE-DAY NATIONAL-LEVEL HYBRID WORKSHOP ON

QUBIT & ORBIT:

A Hands-on Workshop on Quantum Computing & Deep Learning



Date
16 October 2026
(Friday)



Time
10:00 AM – 05:00 PM
(IST)



Venue
TT144, Optical
Communication Lab,
VIT Vellore



Mode
Hybrid
(In-person & Online)

ABOUT THE WORKSHOP

This workshop aims to provide participants with a strong foundational understanding and practical exposure to two transformative technologies — Quantum Computing and Deep Learning. Through expert sessions, hands-on exercises and real-world demonstrations, participants will explore key concepts, tools and applications, and gain insights into how these technologies are shaping the future of intelligent and secure systems.

KEY HIGHLIGHTS

- Hands-on exposure to quantum computing platforms and tools (e.g., Qiskit)
- Hands-on sessions on deep learning and CNN architectures for remote sensing applications
- Real-world applications in urban planning, agriculture, flood monitoring and intelligent systems
- Case study demonstrations using real datasets
- Interaction with industry experts and academicians
- Certificate will be issued to all registered participants

TOPICS TO BE COVERED

Quantum Computing

- Introduction to quantum computing
- Qubits, quantum gates and quantum circuits
- Quantum algorithms (e.g., Grover's, QAOA)
- Hands-on using Qiskit / IBM Quantum
- Applications in cryptography, optimization and communication

Deep Learning

- Introduction to deep learning
- CNN architecture for remote sensing applications
- Applications in urban planning, agriculture and flood monitoring
- Model training, evaluation and visualization
- Case study demonstrations using real-world datasets
- Hands-on with PyTorch / TensorFlow

WHO CAN ATTEND?

- UG Students
- PG Students
- Research Scholars
- Faculty Members
- Industry Professionals

INDUSTRY RESOURCE PERSON

Experts from
Centre for Development of Advanced Computing (C-DAC), Bangalore

ADVISORY COMMITTEE

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REGISTRATION DETAILS

Registration Amount
₹ 200/-
(Inclusive of GST)

Last Date for Registration
12 October 2026

Registration Link
<https://forms.gle/JLLzK3DTBN3ZtLAp6>

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