

India's First Quantum Academy for Educators and Innovators

Backed by the National Quantum Mission (NQM), Department of Science and Technology, under the guidance of our Hon'ble Prime Minister, QNu Academy (the brainchild of QNu Labs) is dedicated to preparing India's workforce proactively for the quantum revolution—aligning with the nation's vision of becoming a developed economy by 2047.

Vision & Mission

QNu Academy is committed to making quantum education accessible, practical, and industry-relevant.

Our goal is to equip academia, students, faculty, and professionals with the knowledge and tools to excel in the quantum era, fostering innovation and strategic leadership.

Why QNu Academy?

- **India's First, World's #1 Quantum Cybersecurity Pioneer** – Incubated at IIT Madras in 2016, QNu Labs leads the nation in quantum-secured communication.
- **Strategic & Industry Partnerships** – Trusted by the Indian Armed Forces and Enterprises. Backed by NQM (Govt. of India)
- **State-of-the-Art Quantum Lab Solutions** – Hands-on learning with the world's first commercial QKD and QRNG, plus defense-grade, mission-critical enterprise-ready equipment.
- **Certified Quantum Education** – Programs that meet national and international standards of teaching and advanced research.
- **Faculty Certification** – Upskill colleges' faculty to deliver industry-aligned quantum courses.
- **Industry Integration & Real Applications** – Internships, assessments, research collaborations, live projects and placements with defense and enterprise industry leaders across critical sectors, and interactive simulations.
- **Turnkey Solutions** - End-to-end lab setup, curriculum, and faculty development.
- **Brand Leadership** - Position your university as a quantum education hub, attracting grants and top students.
- **Cutting-Edge Virtual Labs** – Experiment remotely with QShield Virtual Labs, running real QKD protocols and post-quantum cryptography simulations.

Who's it for?

- Ideal for academic institutions, universities, engineering students, freshers, tech enthusiasts, and experienced professionals.

Democratizing Quantum Education for a Proactive, Quantum-Ready India

Our Offering

- **Quantum Labs** - Physical CoE Lab & QShield Virtual Lab
- **Learning Management System** - AICTE-aligned curriculum with online modules
- **Faculty Development Programs** - Intensive blended training for professors
- **Industry Certifications & Internships** - Hands-on experience with QNu Labs, DRDO, and strategic partners.

What is Quantum Labs and Why?

Physical Center of Excellence (CoE) Lab

- Features **Armos** – India's first commercial **Quantum Key Distribution (QKD)** system
- Includes **Tropos** – **Quantum Random Number Generator (QRNG)** for ultra-secure cryptographic functions
- **Defense-grade technology**, trusted by the **Indian Armed Force** and many enterprises
- Configured for both **academic teaching & advanced research**
- Meets **AICTE standards**, ensuring rigorous quantum education

QShield Virtual Lab

- Enables **Quantum Key Distribution (QKD)** protocols & **Post Quantum Cryptography** simulations
- Remote access for seamless learning from anywhere
- Provides collaborative, project-based learning across multiple product lines
- Fully integrated with real QNu deployments, offering practical, industry-aligned experience

Both lab options complement each other, serving different educational needs while providing authentic quantum exposure.

Join the quantum revolution! Partner with **QNu Academy** to lead India proactively into a quantum-secured future and quantum-secured workforce.



Explore our Offerings