



Olewin
Academy

Professional level program on



**Build full-stack quantum systems, apply
quantum computing in industry & research
or build a product**

Job Oriented Program

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<https://olewinacademy.com>



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**Empowering learners globally
with quality education and
training content for new
approach to learning
paradigms.**



Your Gateway to a Future in Tech!

REVOLUTIONIZE YOUR CAREER WITH ADVANCED PROGRAMS

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visit:- www.olewinacademy.com

Quantum Computing Professional Program

Discover the possibilities of generative Models For Real World Problems

Limited Intake Only

Trained by IITians & Startup Founders

Starts from May/June - 2025

Limited Enrollment Note:

Only a small cohort is selected for each batch to ensure high-quality mentorship, access to quantum hardware, and custom guidance for capstones, research, or innovation. Entry is by shortlisting and interview.

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WHAT SHOULD YOU EXPECT FROM THIS PROGRAM....?

- ▶ **Recognized Certification**
- ▶ **Real-World Application Development**
- ▶ **Job-Ready Technical Training**
- ▶ **Placement & Job/Career Support**
- ▶ **Master in-demand skills tailored to meet the needs of MNCs and private sector companies, making you job-ready from day one.**



2-Certifications based on Real-world Projects & Internships (Paid & UnPaid).



- ▶ **Official Internship Endorsement**
- ▶ **Project-Based Experience**
- ▶ **Industry-Aligned Exposure**
- ▶ **Skill Application Proof**
- ▶ **Career Advancement Credential**
- ▶ **Real world Projects development with AI -Driven and deploy it as a Service model**

Why Settle for Theory When You Can Build the Future?

Note:- This is a real-time, industry-aligned professional program designed for serious learners who want to build practical expertise through hands-on projects and live case studies.

Admission is based on a shortlisting process. Only selected candidates will receive the opportunity to join this immersive, career-transforming journey.



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Curriculum Overview

Modules - 1

- Fundamentals of Quantum Mechanics & Linear Algebra
- Quantum states, Qubits, Superposition, Entanglement
- Bra-ket notation, tensor products
- Quantum gates & quantum circuits (IBM Q)

Modules - 2

- Quantum Programming with Qiskit & Cirq
- Classical vs quantum programming
- IBM Q Experience setup
- Qiskit fundamentals (Python-based)
- Circuit building, execution, and visualization

Modules - 3

Quantum Algorithms - I

- Deutsch-Jozsa Algorithm
- Grover's Search
- Bernstein-Vazirani
- Simulations using IBM Q & Google Sycamore (via Cirq)

Curriculum Overview

Modules - 4

- Quantum Algorithms - II
- Quantum Fourier Transform
- Shor's Algorithm
- Quantum Phase Estimation
- Error mitigation basics

Modules - 5

- Quantum Machine Learning (QML)
- Variational quantum circuits
- Hybrid ML + Quantum models
- Qiskit Machine Learning module
- Use cases: classification, optimization
- Advanced Quantum Algorithms & Error Correction
- Quantum internet and teleportation concepts
- Build a working prototype (Quantum-powered app)

Modules - 6

Projects

- Choose from: Quantum Cryptography, QML, Optimization, Finance, Chemistry
- Team-based or individual



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Academy

**6 & 9 Months
intensive
program with
Internship**



QUANTUM INTELLIGENCE MODEL FOR GEOSCIENCES & ENERGY SECTOR

Quantum Computing Professional Programs, designed for deep learning, real-world project implementation, and global career readiness. We are working on 2 quantum Ai driven Projects (Energy Sector, Advance Quantum Models) where it solves Real time data insights introduced in International Conference

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COMPANY PROFILE



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