



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

School of Computer Science Engineering and Information Systems (SCORE)

Value Added Course **Quantum Programming Using Qiskit**

Why Enroll in this Course?

Quantum computing is transforming the future of technology in various fields. This course introduces IBM's Qiskit framework, enabling participants to design, simulate, and execute quantum circuits and implement real-world quantum algorithms through interactive online sessions.

Course Highlights

- ✓ Fundamentals of Quantum Programming using IBM Qiskit
- ✓ Mathematical Foundations of Quantum Computing
- ✓ Quantum Circuits: Single & Multi-Qubit Gates
- ✓ Visualization and State Representations
- ✓ Execution on Qiskit Simulators
- ✓ Hands-on Implementation of Quantum Algorithms



Offered By

Dr. N. Jeyanthi, Dr. B. Selva Rani & Dr. J. Arun Pandian

Advanced Learning Pathway

Successful participants of this course will be eligible for the **Quantum Machine Learning** course, offered with PennyLane. Learn how quantum computing and machine learning combine to solve advanced AI challenges.



Start your quantum journey today with Qiskit and prepare for the next leap into Quantum Machine Learning with PennyLane!

Course Mode	: Online
Course Fee	: ₹150 (including GST)
Beneficiaries	: Open to All VIT Students
Duration	: 30 hours

Participants can register for the course by scanning the QR code or using the link provided.

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<https://forms.gle/NJJAkQZS1hhZG7pk8>