



MNIT Jaipur IIT Roorkee IIT Kanpur IIT Guwahati NIT Patna NIT Warangal IIITDM Jabalpur

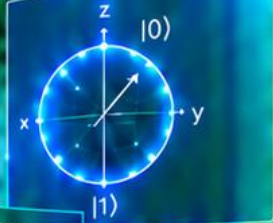
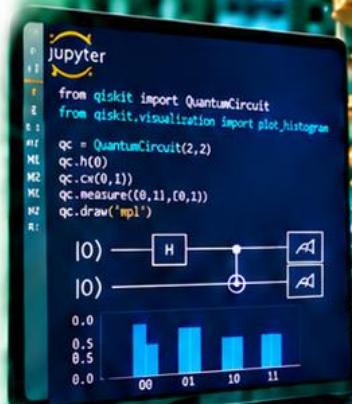
ONLINE FACULTY DEVELOPMENT PROGRAMME

QT-03 & 04

Quantum Programming and Technologies Lab

(5 CREDIT - 60 HOUR)

(30 Days)



1. Qiskit
2. PennyLane
3. Cirq
4. Qniverse

Quantum Programming

Quantum Hardware



October 26- December 05, 2026



Monday to Saturday



2:00 – 4:00 PM (IST)

Facilitated by MeitY, EICTA Consortium, AICTE, NQM and IBM



इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY



PROGRAMME HIGHLIGHTS

- Classes will be conducted on WebEx platform and attendance will be marked automatically
- Lecture Slides and Recordings will be shared on Moodle, daily after the class
- 30-minute Quizzes will be conducted using Moodle on three weekends
- Communication with participants will be through WhatsApp
- Minimum Requirements - Attendance: 75% & Quizzes: 40%. 25% Attendance relaxed on genuine reasons
- Certificate of Completion will be awarded with logos of MeitY, NQM, AICTE, IBM & EICTA Consortium

PROGRAMME MODULES

- 01 Programming and Benchmarking
- 02 Quantum Simulations and Cloud based Quantum Processing
- 03 Numerical Integration and Diff. Eqn., Linear Algebra and Probability & Statistics
- 04 Quantum Machine Learning, Error Correction
- 05 Applications of Quantum Mechanics and Electromagnetics
- 06 RLC Circuits and RF Technology using VNA
- 07 Hybrid Quantum Computing, Quantum Optics
- 08 Industry Perspectives

TENTATIVE EXPERTS / SPEAKERS

1. Prof. Kallol Bhattacharya, UoC Kolkata
2. Prof. Vineet Sahula, MNIT Jaipur
3. Dr. Anupama Ray, IBM
4. Dr. Ritajit Mazumdar, IBM
5. Dr. Mostafizur Rahaman, KTH Sweden
6. Ms. Janani Ananthanarayan, IBM
7. Dr. Aswath Babu, IIIT Dharwad
8. Dr. Jayakumar Vaithyashankar, CEO Anuthantra
9. Prof. Dipti Saxena, MNIT Jaipur
10. Dr. Kavita Lalwani, MNIT Jaipur
11. Experts from CDAC

E & ICT Officials

Prof. N. P. Padhy

Chairperson, Director MNIT Jaipur

Prof. Vineet Sahula

Chief Investigator, Professor Department of ECE

Programme Coordinators

Prof. Pilli Emmanuel Shubhakar

Professor Department of CSE

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Dr. Vikash Kumar

Assistant Professor Department of CSE

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REGISTRATION FEE (FOR 60 HOUR DURATION COURSE)

- Academia (Faculty / PhD Scholars) / India / SAARC / African Countries ₹ 1125 /-
- Professionals / Industry / Others India / SAARC / African Countries ₹ 2250 /-
- Participants from the Rest of the World USD \$ 90

+ GST 18% extra, as applicable.

NATIONAL LEVEL INITIATIVE ON QUANTUM TECHNOLOGIES