



इलेक्ट्रॉनिक्स एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

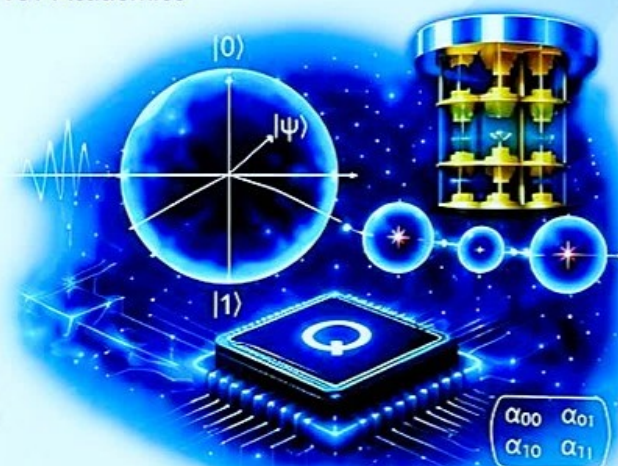
सत्यमेव जयते



Funded by Ministry of Electronics and Information Technology (MeitY)
and Organised by Electronics and ICT Academies

ONLINE FACULTY DEVELOPMENT PROGRAMME

QT-02 Foundations of Quantum Technologies



September 21 - October 15 2026



Monday to Saturday



2:00 PM - 4:00 PM (IST)

Facilitated by National Quantum Mission | AICTE | IBM



PROGRAMME HIGHLIGHTS

- Aligned with AICTE Approved Minor Course & National Quantum Mission
- Comprehensive coverage of Quantum Computing, Communications, Sensing & Applications
- Expert-led sessions from Academia, Industry & Research Organisations
- Certificate from E&ICT Academy, MNIT Jaipur
- For Faculty, PhD Scholars, Students & Working Professionals

PROGRAMME MODULES

- Classical Physics
Hamiltonian function and Hamilton's equations
- Evolution of Quantum Mechanics
Planck's quantum hypothesis, Bohr's quantisation principle, De Broglie's wave particle duality
- Postulates of Quantum Mechanics
Hilbert Space, Dirac notation, Schrödinger equation, Heisenberg's Uncertainty principle
- Quantum Mechanics
Superposition and Entanglement, No cloning theorem, Spin and Angular momentum, Pauli problem, Bosons and Fermions
- Statistical Physics
First and second laws of thermodynamics, Thermal Equilibrium and Gibbs principles, Fermi-Dirac and Bose-Einstein distributions
- Information Science
Digital communication, Shannon entropy, Coherence and noise
- Computational Complexities
P vs NP, PSPACE, Q, BQP, QBC, BPP, QMA
- Post Quantum Cryptography (PQC) and Quantum Key Distribution

TENTATIVE EXPERTS / SPEAKERS

- Mr. Mritunjay Ghosh, HCL
- Dr. Jayakumar Vaithiyashankar, CEO Anuthantra
- Dr. Mostafizur Rahaman, KTH Sweden
- Dr. Aswath Babu, IIIT Dharwad
- Dr. Ritajit Majumdar, IBM
- Dr. Santosh Kumar Vipparthi, IIT Ropar
- Ms. Janani A., IBM
- Other 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
Principal Coordinator | espilli.cse@mnit.ac.in | 9462937359
Dr. Arka Prokash Mazumder
Joint Principal Coordinator | apmazumdar.cse@mnit.ac.in | 9549658129

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REGISTRATION FEE (PER COURSE)

- Academia (Faculty/PhD Scholars) / India / SAARC / African countries ₹750/-
 - Professionals / Industry / Others India / SAARC / African countries ₹1500/-
 - Participants from the rest of the World USD: \$ 60
- *GST 18% extra, as applicable.