



TENTATIVE SPEAKERS & TOPICS

Prof. Prasanta K. Panigrahi, IISER Kolkata

- Quantum principles for Quantum Computing and Quantum Technology

Prof. Arun Kumar Pati, HC Research Institute, Jhansi

- Future of Quantum Computing

Prof. C. M. Chandrashekar, IISc. Bangalore

- Near-term quantum computers and their applications

Prof. Manish K Gupta, DAICT Gandhinagar

- Quantum Error Correction

Prof. Siddhartha Bhattacharyya, Birbhum, WB

- Quantum Machine Learning

Dr. Debajyoti Bera, IIT Delhi

- Introduction to Quantum Computing

Dr. Sunil Kumar Mishra, IIT (BHU)

- Quantum Teleportation using Spin Chains

Dr. Rajat Mittal, IIT Kanpur

- Basics of Quantum Algorithms (Deutsch and Simon's algorithm)

Dr. Subhashish Banerjee, IIT Jodhpur

- Open Quantum Systems in Quantum Information and Computation

Dr. Aravinda S, IIT Tirupati

- Quantum Parallelism, Deatch - Josha Algorithms

Dr. Pankaj Kumar Mishra, IIT Guwahati

- Spin-Orbit (SO) coupled Bose Einstein Condensates

Dr. Bibhash Sen, NIT Durgapur

- Fault Tolerance and Reliability in QDCA

Dr. Swapan Debbarma, NIT Agartala

- Quantum Material Specification

Mr. Arunjit Chowdhury, EBTS

- Quantum based Search Algorithm

Faculty Development Program

on

Quantum Computing

(Advanced Level)

7th – 11th February, 2022

Organized by

Department of Information
Technology, Tripura University

Sponsored by

AICTE Training & Learning
Academy (ATAL)

COURSE OBJECTIVE

This program serves as a platform for research scholars, faculty, engineers and students to interact on cutting edge technologies in Quantum Computing. The Quantum Computing has evolved from the convergence of computer architecture, future technology. Quantum computing is the exploitation of collective properties of quantum states, such as superposition and entanglement, to perform computation. This FDP will deliver the advanced concepts relevant to theory and applications of Quantum Computing. It will enable the researchers and developers to explore and integrate. This FDP will consist of technical sessions and practical's, delivered by experts from reputed industries and academicians from institutes of international repute.

HOW TO APPLY?

- Registration should be done online <https://www.aicte-india.org/atal> and an intimation can be sent to itwc@tripurauniv.in also.

✓ There is no registration fee.

WHO CAN APPLY?

- Faculty Members/ Teaching Assistants/ Students/ Research Scholars from academics and industries recognized by AICTE/ UGC/ Equivalent Central and State Government personnel can apply.

COORDINATORS

Mr. Jayanta Pal, Assistant Professor, IT
Dr. Alak Roy, Assistant Professor, IT