Capacity Building Workshop On

QUANTUM TECHNOLOGIES

5-Day Workshop Program

Organized by

IITM CDOT Samgnya Technologies Foundation

National Hub for Quantum Communication, Chennai

Explore the fundamentals, tools and applications of quantum technologies for a smarter tomorrow

Date
7 – 11 December 2026
(5 Days)

Venue
DMT Hall
Sacred Heart College
(Autonomous), Tirupattur

Time
9.30 AM – 4.00 PM

Broad Topics

- Fundamentals of Quantum Mechanics
- Introduction to Quantum Technologies
- Quantum Computing
- Quantum Communication and Cryptography
- Quantum Sensing, Metrology and Quantum Materials
- Practical Exposure to Quantum Computing

Registration

Interested participants are requested to register on or before **23/11/2026**

Scan Here to Register

Registration Link : https://forms.gle/pJhPdtmxaq4C4BvP6

Who can apply?

Final Year Undergraduate Physics Students

DMT Hall

Department of Physics
Sacred Heart College (Autonomous),
Tirupattur- 635601, Tamilnadu.

For Further Details

Contact: +91 9944825036
+91 8668024880
E-mail: jose@shctpt.edu



No Registration Fee **Lunch & Refreshments will be Provided**

Step into the future with Quantum Computing

Capacity Building Workshop on Quantum Technologies

FIVE-DAYS WORKSHOP | 07–11 DECEMBER 2026

Organized by

IITM C-DOT Samgnya Technologies Foundation, National Hub for Quantum Communication, Chennai

VENUE: DEPARTMENT OF PHYSICS, SACRED HEART COLLEGE (AUTONOMOUS), TIRUPATTUR

PROGRAMME SCHEDULE

DATE	SESSION I 9:30 AM – 11:00 AM	TEA BREAK (11:00 AM – 11:30 AM)	SESSION II 11:30 AM – 1:00 PM	LUNCH (1:00 PM – 2:00 PM)	SESSION III 2:00 PM – 3:30 PM
07/12/2026	**Ms. Selvagangai C** *Scientist C, SETS, Chennai* Topic: Introduction to Quantum Information and Computation		**Prof. Dr. G. Bhagavannarayana** *Former Chief Scientist, CSIR-NPL, New Delhi* Topic: Secure Quantum Communication: From Quantum Principles to Real-World Applications		**Ms. Selvagangai C** *Scientist C, SETS, Chennai* Topic: Quantum Technologies: Core Principles and Current State of Quantum Communication
08/12/2026	**Dr. Balakrishnan Subramanian** *VIT University, Vellore* Topic: Brief Introduction to Quantum Mechanics		**Dr. M. Senthilvelan** *CSIR Emeritus Scientist, Bharathidasan University, Trichy* Topic: Entanglement: From Arguments to Creation of Technologies		**Dr. Venkat Abhignan** *NIT Patna* Topic: Advances in Quantum Computing and Quantum Communication Technology
09/12/2026	**Dr. M. Senthilvelan** *CSIR Emeritus Scientist, Bharathidasan University, Trichy* Topic: Entanglement: From Arguments to Creation of Technologies		**Dr. Balakrishnan Subramanian** *VIT University, Vellore* Topic: Understanding of Quantum Circuits		**Dr. Balakrishnan Subramanian** *VIT University, Vellore* Topic: Applications of Quantum Computation
10/12/2026	**Dr. Vijayanand Chandrasekaran** *VIT University, Vellore* Topic: Physics Behind Quantum Computing		**Mr. Vijai Amalraj Irudaiyam** *NeST Digital Private Ltd, Bengaluru* Topic: Cybersecurity Evolution from Classical Defense to Quantum Security		**Dr. Mohammed Armoon Shaliq** *TCS Research, Bengaluru* Topic: Foundations of Quantum Technologies: A Physics Perspective
11/12/2026	**Ms. Debarthi Pal** *Research Engineer, IBM Quantum, Bangalore* Topic: Introduction to Quantum Computing with Real-World Use Cases		**Dr. Balachandar Settu** *IIT Madras* Topic: From Quantum Spins to Real-World Sensing: NV-Diamond and Fiber-Optic Quantum Technologies and Their Applications		**Dr. Balachandar Settu** *IIT Madras* From Quantum Spins to Real-World Sensing: NV-Diamond and Fiber-Optic Quantum Technologies and Their Applications