

**5-Day Symposium and Training Workshop on**  
**Quantum Information & Technologies (QIT)**  
**IIIT Allahabad & C-DAC Pune**  
**July 24-28, 2025**

**Registration:** At CC3 Ground Floor **Time:** 09:00 – 09:30 on 24/07/2025

**Lecture Venue:** **CC3-5055**

**Breakfast will be served everyday at Visitor Hostel - I (VH-I) between 8 AM - 9AM**

**Day 1: Thursday, 24/07/2025**

| TIME (IST)    |                                   |                                                                                      |
|---------------|-----------------------------------|--------------------------------------------------------------------------------------|
| 09:00 – 09:30 | Registration                      |                                                                                      |
| 09:30 – 10:10 | Inaugural Session                 |                                                                                      |
|               | SPEAKER                           | TITLE                                                                                |
| 10:30 – 11:45 | Pramod Kumar                      | Introduction to Topological Quantum Materials                                        |
| 11:45 – 11:50 | Break                             |                                                                                      |
| 11:50 – 12:50 | Srijit Bhattacharjee              | Introduction to Quantum Measurements & Decoherence                                   |
| 12:50 – 13:30 | Upendra Kumar                     | Introduction to Quantum Gates & Circuits                                             |
| 13:30 – 15:00 | LUNCH: Visitor Hostel - I (VH-I)  |                                                                                      |
| 15:00 – 15:35 | Amit Saxena                       | Quantum Computing at CDAC                                                            |
| 15:35 – 16:15 | Manpreet Singh                    | Ultracold Atoms as Quantum Simulators: From Phase Transitions to Quantum Computation |
| 16:15 – 16:30 | Tea Break                         |                                                                                      |
| 16:30 – 18:00 | Sai Vinjanampathy                 | Introduction to Quantum Computing Ideas - I                                          |
| 20:00 – 21:30 | DINNER: Visitor Hostel - I (VH-I) |                                                                                      |

**Day 2: Friday, 25/07/2025**

| Time (in IST) | SPEAKER                           | TITLE                                        |
|---------------|-----------------------------------|----------------------------------------------|
| 10:00 – 11:30 | Sai Vinjanampathy                 | Introduction to Quantum Computing Ideas - II |
| 11:30 – 11:45 | Tea Break                         |                                              |
| 11:45 – 13:15 | Sunil Nair                        | Quantum Materials & Devices                  |
| 13:15 – 15:00 | LUNCH: Visitor Hostel - I (VH-I)  |                                              |
| 15:00 – 16:30 | K P Singh                         | Quantum Machine Learning                     |
| 16:30 – 16:45 | Tea Break                         |                                              |
| 16:45 – 18:00 | Shashank Gupta                    | Introduction to Quantum Cryptography         |
| 20:00 – 21:30 | DINNER: Visitor Hostel - I (VH-I) |                                              |

**Day 3: Saturday, 26/07/2025**

| Time (in IST)     | SPEAKER                                   | TITLE                                                                   |
|-------------------|-------------------------------------------|-------------------------------------------------------------------------|
| 10:00 – 11:30     | Shekhar Verma                             | Variational Quantum Algorithms                                          |
| 11:30 – 11:45     | Tea Break                                 |                                                                         |
| 11:45 – 13:15     | Soumyadev Maity                           | Post Quantum Cryptography                                               |
| 13:15 – 15:00     | LUNCH: Visitor Hostel - I (VH-I)          |                                                                         |
| HANDS-ON SESSION: |                                           |                                                                         |
| 15:00 – 16:30     | Aashay Pandharpatte<br>Don Reji           | Introduction to Qniverse<br>Executing Quantum Algorithms using Qniverse |
| 16:30 – 16:45     | Tea Break                                 |                                                                         |
| 16:45 – 18:00     | Shashank Gupta                            | Introduction to Quantum Cryptography                                    |
| 20:00 – 21:30     | Special DINNER: Visitor Hostel - I (VH-I) |                                                                         |

**Day 4: Sunday, 27/07/2025**

| Time (in IST)     | SPEAKER                           | TITLE                     |
|-------------------|-----------------------------------|---------------------------|
| 10:00 – 11:30     | Sunil Mishra                      | Quantum Many Body Physics |
| 11:30 – 11:45     | Tea Break                         |                           |
| 11:45 – 13:00     | Sanjai Singh                      | Quantum Materials         |
| 13:15 – 15:00     | LUNCH: Visitor Hostel - I (VH-I)  |                           |
| HANDS-ON SESSION: |                                   |                           |
| 15:00 – 16:30     | Kanishka Padamata                 | Quantum Error Correction  |
| 16:30 – 16:45     | Tea Break                         |                           |
| 16:45 – 18:15     | Vishu Vyas                        | Quantum Machine learning  |
| 20:00 – 21:30     | DINNER: Visitor Hostel - I (VH-I) |                           |

**Day 5: Monday, 28/07/2025**

| Time (in IST) | SPEAKER                          | TITLE                                                      |
|---------------|----------------------------------|------------------------------------------------------------|
| 09:45 – 11:00 | Sunil Singh Kushvaha             | Quantum materials towards metrology                        |
| 11:00 – 11:15 | Tea Break                        |                                                            |
| 11:15 – 12:45 | Debraj Rakshit                   | Quantum Sensors: The Next Frontier in Precision Technology |
| 12:45 – 13:15 | Valedictory Session              |                                                            |
| 13:15 – 15:00 | LUNCH: Visitor Hostel - I (VH-I) |                                                            |