Guru Nanak Dev Engineering College, Ludhiana

Computer Society of India

(Student Chapter)

A WORKSHOP ON

QUANTUM COMPUTING

(SESSION 1)

4TH NOVEMBER, 2022

9:30 AM TO 01:00 PM

SEMINAR HALL-4 CSE DEPARTMENT

BY:

MR. ARSHPREET SINGH

Lead Engineer, ITC Infotech, Bengaluru.

https://bit.ly/3DtaEbp

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Workshop on Quantum Computing

Session 1

Date: 4th November 2022	Venue: Seminar Hall 4 and R Lab
Duration: 9:30 AM to 1:00 PM	Total Participants: 55

Computer Society of India- Student Chapter organized a workshop on Quantum Computing ***(Session 1)*** on 4th November, 2022. The event was organized to provide the fundamental knowledge and hands on experience to the students on this latest and rapidly developing technology. The expert for the session was **Mr. Arshpreet Singh**, Lead Engineer, ITC Infotech Bengaluru. He is an IBM Quantum Computing Certified Professional with a very vast experience in Software Development, Complex System Integration, Web Development, etc.

Dr. Parminder Singh, HOD-Computer Science and Engineering inaugurated the session with a formal welcome and by introducing importance and need of Quantum Computing in various application domains.

The key points delivered in the session were:

- Fundamentals of GPU Computing
- Comparison between CPU and GPU Computing (with Demonstration)
- Fundamentals of Quantum computing
- Quantum bit and superposition (with Demonstration)
- Quantum gates
- Quantum measurement
- Quantum computing models

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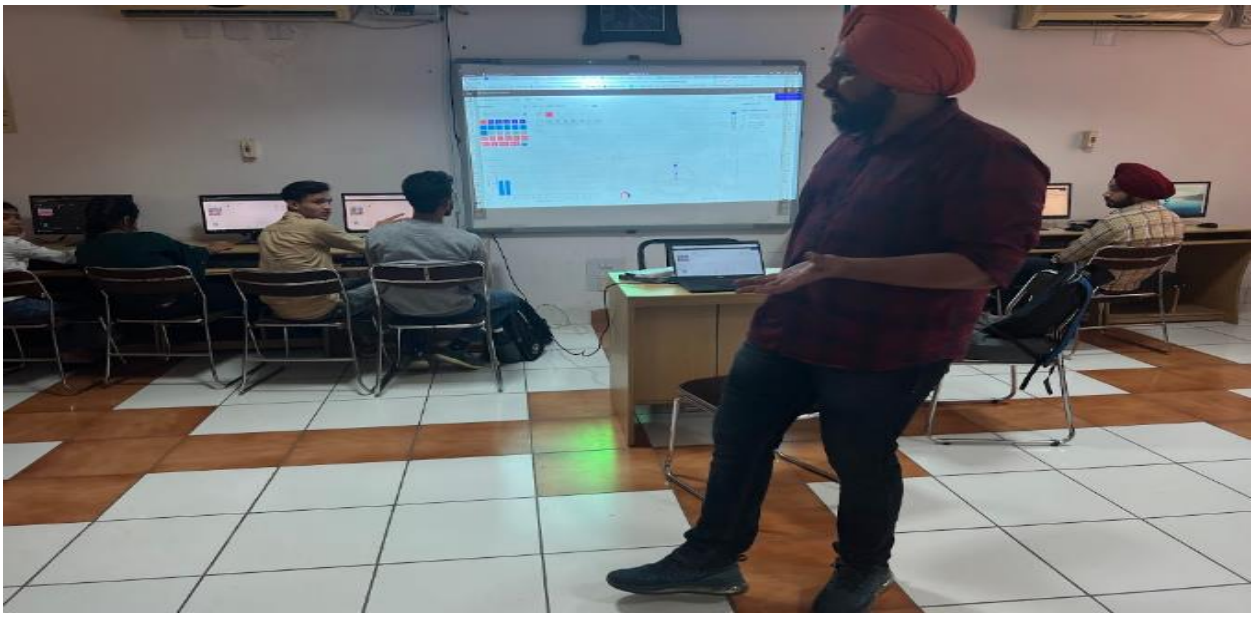
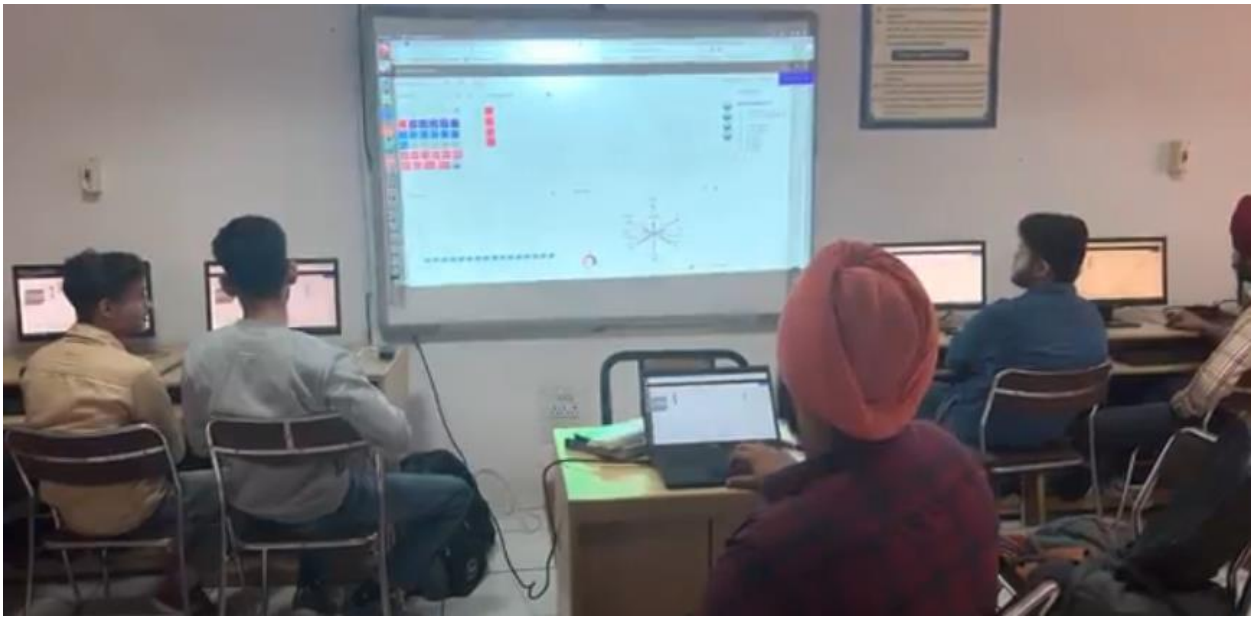
- Quantum Computing Simulators (with Demonstration)
- Quantum Machine learning (Present and Future scenario)
- Quantum Machine Learning in Banking and Finance
- National and Global Scenario of Quantum Computing

The expert of the session, Mr. Arshpreet Singh concluded the workshop by discussing the vision of Indian Government and various Research Institutes in this rapidly developing computational paradigm.

Student – Convener **Faculty-Coordinator**

Event Glimpses