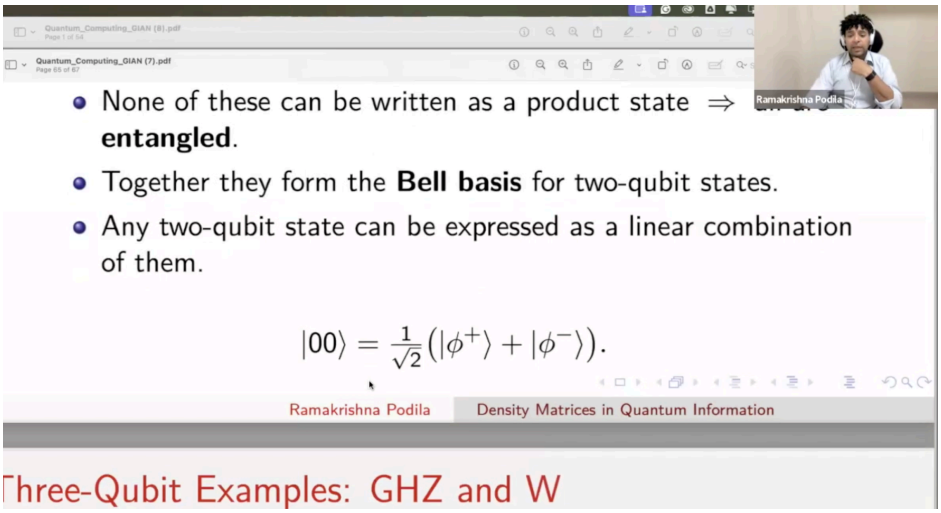
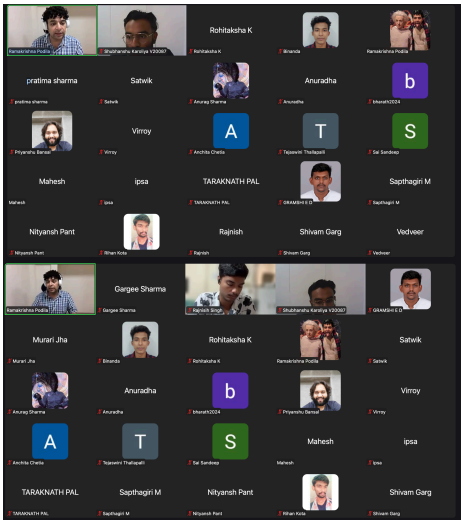
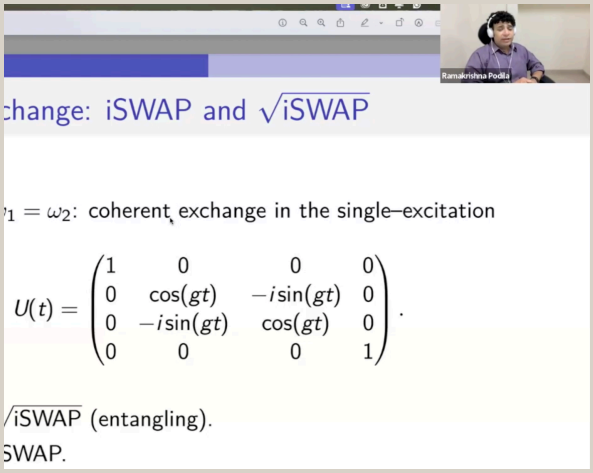
GIAN course conducted on Hands-on Quantum Computing and Quantum Information





A GIAN course on "Hands-on Quantum Computing and Quantum Information" was conducted online at the Indian Institute of Technology Delhi from 29 September to 10 October 2025, under the **Ministry of Education's Global Initiative of Academic Networks (GIAN) program.**

The course was led by *Prof. R. Podila* (Department of Physics, Clemson University, USA) and *Prof. Gargee Sharma* (Department of Physics, IIT Delhi) and drew participants from across India, including students, faculty, and professionals from academia and industry.



The program offered a comprehensive introduction to quantum computing and quantum information, covering quantum mechanics fundamentals, quantum gates and circuits, quantum algorithms (Deutsch, Grover, Shor), and quantum cryptography (BB84 protocol). Participants also gained hands-on experience using IBM Qiskit for implementing and visualizing quantum circuits.