



Summer School on “Theory and Techniques in Quantum Computation”

At
CNCB Academy of Science & Technology
Taradapada (near SBI Sampur), Jagatsinghpur-754103 , Odisha

<https://cncbacademy.com>

May 8 - May 21, 2024

TOPICS TO BE COVERED

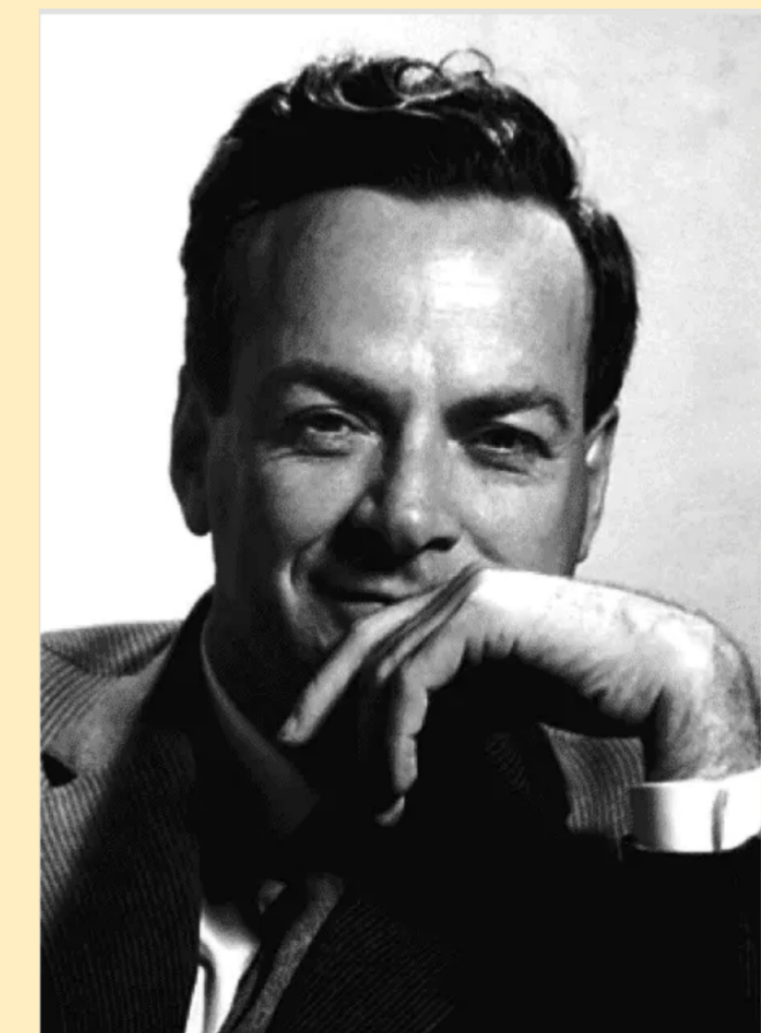
- ▶ Introduction to Quantum Mechanics through electron spin
- ▶ Entangled States, Bell's Theorem and implication.
- ▶ Quantum Logic Gates
- ▶ Quantum Fourier Transformation and Phase Estimation
- ▶ Shor's Algorithm and its implementation on a quantum computer like **Qiskit** platform of **IBM**
- ▶ Problems and Tutorials

INSTRUCTOR

Dr. Devashish Sanyal
M.S.(IISc, Bangalore), Ph.D (IACS,
Kolkata),
Postdoc Fellow (IOP, BBSR)
Associate Prof, Physics, CNCB

SCHEDULE , ELIGIBILITY, REGISTRATION

- ▶ 8th May - 21th May, 2024 , 9:00 - 11:30
- ▶ Students pursuing B.Sc (physics, chemistry, mathematics, computer science) , B.Tech or MCA are eligible to register.
- ▶ Participants can register on 8th May in person at the venue from 8:30 onwards.



Richard P Feynman