



## Q-Sim

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- Ministry of Electronics & Information Technology launched Q Sim - Quantum Computer Simulator Toolkit, **to enable Researchers and Students to carryout research in Quantum Computing in a cost effective manner.** This is one of the first initiatives in the country to address the common challenge of advancing the Quantum Computing research frontiers in India.
- **QSim is an outcome of the project 'Design and Development of Quantum Computer Toolkit (Simulator, Workbench) and Capacity Building'.** This project is being executed collaboratively by IISc Bangalore, IIT Roorkee and C-DAC with the support of Ministry of Electronics and Information Technology.
- **QSim Feature-**
- **Intuitive UI:** QSim offers a robust QC Simulator integrated with a GUI based Workbench allowing researchers to create Quantum programs, visualize the instant circuit generation and simulated outputs.
- **Simulate noisy Quantum logic circuits:** Helps simulate Quantum circuits with and without noise and test how well various algorithms work with imperfect quantum components.
- **Pre-loaded Quantum algorithms:** QSim comes loaded with Quantum programs and algorithms providing a head start to the users.
- **Integrated with High performance computing :** The quantum simulations are performed on powerful High performance computing resources allowing multiple users to submit jobs simultaneously with different QuBit configurations.

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Best Team, Best Teaching

# सामान्य अध्ययन फाउंडेशन (प्रिलिम्स + मेन्स)

**ऑफलाइन बैच**

कक्षा आरंभ : 20 सितंबर 2021

समय : 11:30 AM – 2:30 PM

**ऑनलाइन लाइव कोर्स**

कक्षा आरंभ : 25 अगस्त 2021

समय : 6:30 PM – 9:00 PM



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