



Department of Physics
Faculty of Natural Sciences

WORKSHOP
ON

**QUANTUM COMPUTING AND
QUANTUM TECHNOLOGIES**

03 - 04 MARCH 2026

Topics

- Introduction to Quantum computation
- Quantum communication
- Quantum metrology and quantum sensing
- Experimental aspects of quantum computation
- Hands on session on IBM Qiskit
- Career prospects in quantum technologies

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[**A206, RTC, RUAS, PEENYA,
BENGALURU**](#)

About the workshop

Quantum technologies harness laws of quantum physics - such as superposition and entanglement - to create entirely new capabilities beyond classical systems. They are enabling breakthroughs in quantum computing, quantum communication and quantum sensing. Together, these technologies promise transformative impacts across cybersecurity, healthcare, energy, finance, and fundamental science, moving rapidly from research labs into real-world applications.

This workshop is mainly aimed towards beginners in the field (Ph.D. students, Masters in Physics, Mathematics, Engineering and related disciplines, Faculty members interested in the area, Industry professionals, etc.). Key objectives of the workshop are to introduce participants to different sub fields of quantum technologies and to provide a platform to dive deeper into this exciting and rapidly emerging field. A hands-on session on cloud based implementation of quantum protocols using Qiskit is also included.

Invited speakers



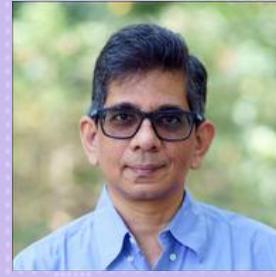
Prof. Apoorva Patel
IISc



Prof. Chandrashekhar C M
IISc



Prof. Usha Devi A.R.
Bangalore University



Prof. Sadiq Rangwala
RRI



Prof. Sudha
Kuvempu University



Prof. Prabhu R.
IIT Dharwad.



Dr. Omkar S.
Seoul National University



Ms. Janani A.
IBM

Registration fees

- Students: Rs. 350/- (including GST)**
- Faculty members/Industry participants/others: Rs. 600/- (including GST)**
- The workshop will be held **in-person mode** only.
- Participants are requested to bring their own laptops for the Hands-on training session on IBM Qiskit during the workshop.
- For more details or any clarifications contact the organizers.

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REGISTRATION CLOSES SOON

RUAS

Ramaiah University of Applied Sciences (RUAS), established by the Gokula Education Foundation (GEF), is a leading private university in Bengaluru dedicated to excellence in teaching, research, and innovation. The University promotes applied learning and interdisciplinary education to address real-world challenges in science and technology. Offering programs across Engineering, Science, Health Sciences, Management, Art and Design, and Humanities, RUAS fosters innovation, industry collaboration, and social responsibility. Its vision is to be a globally recognized institution for outcome-based education and translational research, nurturing creative and responsible professionals. [Click here to know more.](#)

Department of Physics

The [Department of Physics](#) was established under RUAS's Faculty of Natural Sciences (FNS) in the year 2014. Our programmes are designed to cultivate scientific inquiry, critical thinking, and hands-on experimentation. With state-of-the-art laboratories and modern teaching methodologies, students gain a strong foundation in theoretical and experimental aspects of the subject. The following programmes are offered by the Department of Physics, FNS, RUAS.

- M. Sc. in Physics (Applied Solid State Physics)
- M. Sc. in Physics (Nuclear Physics and Technology)
- Ph. D. in Physics

