

CHIEF PATRONS

Shri. Samir S. Somaiya
President, Somaiya Vidyavihar

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Secretary, Somaiya Vidyavihar

Dr. Raghunath Shevgaonkar
Provost, Somaiya Vidyavihar

PATRON

Dr. Suresh Ukarande
Principal, KJSIEIT, Mumbai
Associate Dean, Faculty of Science and Technology,
University of Mumbai,
Member Academic Council, BOD, BOEE, RRC,
University of Mumbai,
National Executive Council Member, ISTE, New Delhi

CONVENOR

Dr. Sunita Patil
Vice-Principal, KJSIEIT
Member, BoS in Computer Engineering, UoM

CO-ORDINATOR

Dr. Sarita Ambadekar
HOD, Dept. of Computer Engineering, KJSIEIT
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CO-CORDINATORS

Dr. Shreya Patankar
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For any queries contact the co-coordinators and
Visit: <http://kjsieit.somaiya.edu.in>

 www.facebook.com/kjsieitofficial

 www.youtube.com/kjsieitofficial

 www.instagram.com/kjsieit_official

ELIGIBILITY

Students & Faculties from AICTE/ UGC Approved
Technical / Management Institutes and Professional
from Industry are eligible to participate.

REGISTRATION DETAILS

Registration Fees: Rs.500/-

Mode of payment: Online

Account name: K J Somaiya Institute of Engineering and
Information Technology

Name of Bank: Axis Bank Ltd.

Account Number: 029010100284646

IFSC Code: UTIB0000029

Participants shall register online through the link:
<https://forms.gle/STpyBwKdkUjksQyda>

CERTIFICATION CRITERIA

- ❖ Minimum 80 % attendance
- ❖ Minimum 60 % marks in any 1 out of 2 tests

IMPORTANT DATES

Last date (Online registration): 05th Dec. 2022

VENUE

Department of Computer Engineering
K J Somaiya Institute of Engineering & Information
Technology, Sion, Mumbai-22.

QUANTUM COMPUTING



SOMAIYA
VIDYAVIHAR

K J Somaiya Institute of Engineering and Information Technology
An Autonomous Institute permanently affiliated to University of Mumbai.



IET
The Institution of
Engineering and Technology



ISTE, IET & University of Mumbai Approved
ONE WEEK FACULTY DEVELOPMENT PROGRAM
ON

QUANTUM COMPUTING

(Hybrid Mode)

12th to 17th December 2022

Organized by

Department of Computer Engineering
In association with

**The Institution of Engineering and
Technology (Mumbai LN)**



**K J Somaiya Institute of Engineering and
Information Technology,**
Somaiya Ayurvihar Complex, near Everard Nagar,
Eastern Express Highway, Sion, Mumbai-22
Phone No: 022-24061431, 351 Fax: 022-24028804
<http://kjsieit.somaiya.edu.in>

ABOUT KJSIEIT

K. J. Somaiya Institute of Engineering and Information Technology (KJSIEIT) is an autonomous engineering institute recognized by UGC, approved by AICTE & DTE and is permanently affiliated to the University of Mumbai. KJSIEIT offers UG programs in Computer Engineering, Information Technology, Artificial Intelligence & DataScience, Electronics & Telecommunication Engineering, PG programs in Artificial Intelligence and Ph.D. program in Computer Engineering, Electronics and Telecommunication Engineering and Information Technology.

- ❖ KJSIEIT is re-accredited by NAAC with 'A' Grade and 3.21 CGPA up to 31st December 2026. Two UG programs are re-accredited and one UG program is first time accredited by National Board of Accreditation (NBA) upto June 2025.
- ❖ In Indian Rankings 2020, KJSIEIT has been placed in Rank Band 251-300 by National Institutional Ranking Framework (NIRF) in AY 2019-20.
- ❖ KJSIEIT bagged Best Academic Affiliate Institute Award by The Institution of Engineering & Technology (IET) in 2016, 2017, 2018 and 2019.
- ❖ KJSIEIT - Institution's Innovation Council (IIC) is listed at first position in western zone among 467 institutions and in top 10 among institutions all over India in 2020-21. It is listed as one of the Top 3 IICs in Western Zone and as one of the Top 25 IICs & Top 40 IICs in the Nation for the Years 2018-19 & 2019-20 respectively by MoE's Innovation Cell. IIC is selected as mentor to 05 institutes under mentee-mentor program.
- ❖ In Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2020, KJSIEIT is placed in Rank Band 'B' indicating a rank in Top 50 participating Private Institutions across India and in "Performer Rank Band" in 2020 and 2021 respectively.
- ❖ KJSIEIT was presented with Best College Award by University of Mumbai (Urban Region), ISTE (Maharashtra and Goa Section) and CSI (Mumbai Region) in AY 2018-19.
- ❖ In AICTE-CII Survey of Industry-Linked Technical Institutes, KJSIEIT is placed in Platinum Category for 2020, 2019 & 2018 and in Gold Category for 2017 & 2016.
- ❖ KJSIEIT got 297th ALL INDIA RANK in AICTE Internshala's Internship Ranking 2021 among 2000+ participating colleges across India.
- ❖ Institutes PocketQube standard satellite proposal selected by ISRO for launching experimental satellite platform aboard PS4-OP program.

ABOUT COMPUTER ENGINEERING

The Department of Computer Engineering was established in the year 2001 to impart quality education with UG B. Tech intake of 120, PG, M. Tech(Artificial Intelligence) intake of 18 and Ph.D. intake of 15.

- ❖ The Department is accredited by NBA in 2018 and re-accredited in 2022, upto June 2025.
- ❖ The Department has highly qualified, determined and dedicated teaching faculty who prepare students to excel in the field of Computer Engineering.
- ❖ Project Based, Skill based, Activity-based and Technology based teaching learning process is the strength of the department.

ABOUT IET

- ❖ The Institution of Engineering and Technology (IET) student chapter helps students to develop their technical skills that are essential in the corporate world. Most of the workshops, seminars, competitions are held by IET professionals with training on various technical projects.

PROGRAM OBJECTIVES

- ❖ To learn Mathematics required for Quantum Computing.
- ❖ To Understand the building blocks of Quantum Computing and design algorithm
- ❖ To Understand Quantum hardware principles and tools for Quantum Computing.
- ❖ To explore various research opportunities and challenges in the domain of Quantum Computing for developing applications.

PROGRAM OUTCOMES

Participants will be able to:

- ❖ Learn Building blocks of Quantum computing through architecture and computing models
- ❖ Appraise various mathematical models required for Quantum computing and evaluate various Quantum computing algorithms.
- ❖ Explore and contribute to research and innovation through various research opportunities and challenges in this domain.

RESOURCE PERSONAGE

- ❖ Dr. Siddharth Santra, IIT Bombay.
- ❖ Dr. Ayan Mukhopadhyay, IIT Madras.
- ❖ Dr. Siddharth Bhattacharya, Birbhum, India.
- ❖ Dr. Bodhaditya Santra, IIT Delhi.
- ❖ Dr. Debhanjan Konar, Research Scientist, Germany.
- ❖ Dr. Rajiv Iyer, Head, EXTC Dept, KCCEMSR, Mumbai.
- ❖ Prof. Tulika Dutta, Presidency University, Bangalore.
- ❖ Dr. Anil Garg, Domain of Holistic academy, Thane, Mumbai.

ORGANISING COMMITTEE

Dr. Shyamal Virnodkar	Prof. Aarti Sahitya
Prof. Kavita Bathe	Prof. Pradnya Patil
Prof. Mrunali Desai	Prof. Pradnya Bhangale
Prof. Jyoti Wadmare	Prof. Bhagyashri Ingle
Prof. Chitra Bhole	Prof. Minal Sonkar
Prof. Nisha Vanjari	Prof. Pallavi Patil
Prof. Shubhada Labde	Prof. Payal Varangaokar
Prof. Mandar Bivalkar	

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