

DATE

Faculty Development Program will be held during
3rd to 7th January 2022

REGISTRATION:

on ATAL Portal only

<https://www.aicte-india.org/atal>

To, **Mr. Vijay More,**

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FACILITIES



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Trustee, MET's BKC, Nashik

Hon. Shefali Bhujbal

Chief Administrator, MET's BKC, Nashik

PATRON

Dr. V. P. Wani

Principal,

MET's Institute of Engineering, BKC, Nashik

CONVENER

Dr. M. U. Kharat

HOD, Dept. of Computer Engineering

COORDINATOR

Mr. Vijay More

ORGANIZING COMMITTEE

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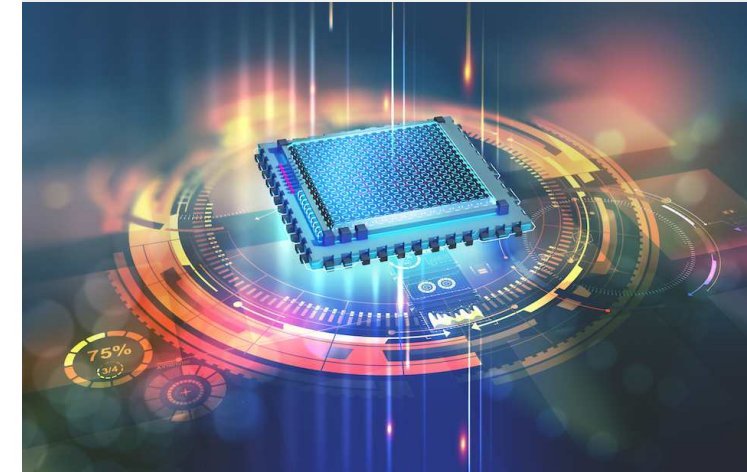
Mr. Atul Chaudhari

Mr. Manoj Suri

ONLINE FACULTY DEVELOPMENT PROGRAM on

QUANTUM COMPUTING

3rd to 7th January 2022



Sponsored by

**AICTE Training And Learning (ATAL)
Academy Scheme**



Organized by

**Institute of Engineering,
Department of Computer Engineering**

THE MET LEAGUE OF COLLEGES
AS SHARP AS YOU CAN GET

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ISO 9001:2015 certified. MET is an NGO in special consultative status with UN (ECOSOC)

About Institute

Mumbai Educational Trust (MET) is a public charitable trust established in year 1989 with a mission to radically redefine education system in India. MET League of colleges has contributed over 30,000 professionals to the Indian and global business houses.

In the line with its commitment to provide world class education in India, MET has created state-of-the-art Bhujbal Knowledge City (BKC) at Nashik, Maharashtra. It promises to be the answer to the ever changing need of education scenario. The campus is situated at Adgaon, Nashik, with 34 acres of lush green landscapes having 4 lack sq.ft. of campus building spaces. The college offers Institute of Engineering, Institute of Management, Institute of Pharmacy, Institute of Technology (Polytechnic), Institute of Information Technology, Institute of Distance Learning.

Institute of Engineering offers various disciplines viz. Computer, IT, MCA Electronics, Electronics & Telecommunication, Mechanical, Electrical, Civil imparting UG and PG education along with research, approved by AICTE and Affiliated to Savitribai Phule Pune University, Pune. MET's BKC has excelled in academics, cocurricular and Extra-curricular activities.

About Department

The Computer Engineering Department of MET's Institute of Engineering is established in the year 2006, and has grown over the years into a competent department with state of the art computing facilities, and dedicated faculty. Having started with a four year under-graduate program, B.E (Computer Engineering), the department proudly host Post Graduate program, M.E Computer (Computer Engineering) along with Research Center. The intake of under graduate program is 120 (increased from 60 to 120 wef 2018-19) and post graduate program is 24. As of now, there are 12 research scholars associated with research center.

The goal of the department is to establish state of the art computing environment to develop competent computer engineers imbibe with the spirit of professionalism and responsible citizenship. The department emphasizes the Vision of the Mumbai Education Trust's, for excellence in education. Highly qualified, dedicated faculty and good infra-structure facilities, make this dream realizable.

Computer Engineering Department had re-accredited for second cycle with effect from 2020-21 to 2022-23 upto 30-06-2023

PROGRAMME OBJECTIVES:

- Focus on introduction to Quantum Computing and its applications
- Focus on different Quantum Computing algorithms and their applications
- Exposure to different tools and methodologies available in this domain.

COURSE CONTENTS:

- Introduction to Quantum Computing
- Evolution of Quantum Computing Architecture
- Quantum Algorithms and their Applications
- Quantum Business Models and importance in the application industry
- Role of Quantum Computing in various domains
- Quantum Circuits Significance
- Introduction to Quantum Mechanics
- Relation of Machine Learning and Quantum Computing
- Hands on Quantum Computing with different tools (e.g. IBM Quantum Circuit Composer)

EXPECTED OUTCOMES

This FDP will serve as an introductory concepts as well as hands-on sessions on Quantum Computing domain. At the end of the FDP the learner should be able to understand concepts and tools and techniques available in the field of Quantum Computing. Learner also will be able to provide conceptual solution and preliminary demonstration of real life problems based on the knowledge acquired on Quantum Computing.

WHO SHOULD PARTICIPATE?

- The program is open to the Faculties of AICTE approved Engineering & Polytechnic Institutions.

