DATE

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

REGISTRATION:

on ATAL Portal only

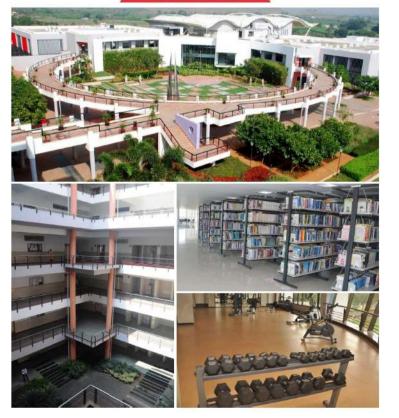
https://www.aicte-india.org/atal

To, Mr. Vijay More,

Assistant Professor,
Department of Computer Engineering,
MET's, IOE, Bhujbal Knowledge City
Adgaon, Nashik-422003, Maharashtra, India
Email: vijaym_ioe@bkc.met.edu
Mob.No:-+91 9421991569
Tel: (0253) 2555836

For more details please visit: www.metbkc.edu.in

FACILITIES



CHIEF PATRON

Hon. Sameer Bhujbal

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

Dr. S. V. Gumaste
Dr. Prashant Yawalkar
Dr. Priti Metange
Dr. Kalpana Metre
Mr. Shailendra Vidhate
Mrs. Archana Banait

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Mrs. Deepali Suryawanshi

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Mr. Ashutosh Kale Mr. Atul Chaudhari

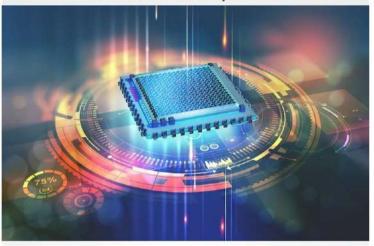
Mr. Manoj Suri

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

MET Bhujbal Knowledge City

Adgaon, Nashik - 422003

Tel.: (0253) 2303442, 2303515 | Telefax: (0253) 2303203 email: enquiries@bkc.met.edu

Website: metbkc.edu.in

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 establish 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
- Handson 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 and tools and techniques available in the field of Quantum Computing. Learner also will be able to provide conceptual solution and priliminarial 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.



REPORT

Quantum Computing

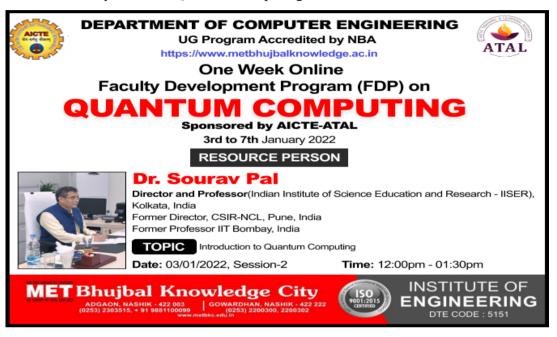
Date: 3rd to 7th January 2022, Institute Name: MET's Institute of Engineering, Bhujbal Knowledge City, Nashik, Department of Computer Engineering

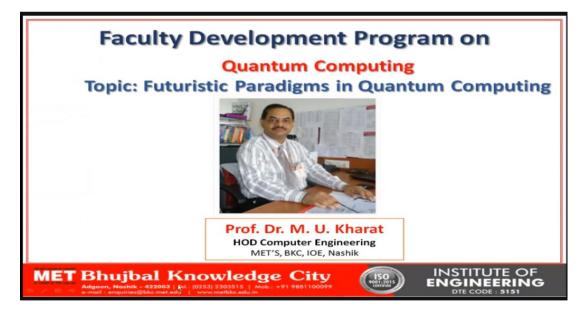


Quantum Computing FDP

Quantum Computing 5-Days AICTE sponsored FDP was conducted from 3rd to 7th January 2022 in which around 175 participants from different parts of the country participated.

The speakers for the 5-day FDP on "Quantum Computing" were:







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One Week Online

Faculty Development Program (FDP) on

QUANTUM COMPUTING

Sponsored by AICTE-ATAL

3rd to 7th January 2022

RESOURCE PERSON



Dr. Vinod Pachghare

Associate Professor(College of Engineering,Pune),Department of Computer Engineering

TOPIC Role of Quantum Computing in various domains

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RESOURCE PERSON



Mr. Manoj Bhatkar

Senior VP, IT Delivery Head(Anand Rathi IT Pvt Ltd), Jodhpur, Rajasthan

TOPIC Quanti

Quantum Business Models and importance in the application

industry

Date: 05/01/2022, Session-7 Time: 10:00am - 11:30am

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Dr. Rubell Marion Lincy G

Assistant Professor(Indian Institute of Information Technology (IIIT), Kottayam, Kerala

TOPIC Quantum Algorithms, Demonstration with Qiskit

Date: 05/01/2022, Session-8 **Time:** 12:00pm - 01:30pm

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RESOURCE PERSON



Dr. Raman Kumar Jha

Vice Chancellor (Amity University), Ranchi, Jharkhand

Introduction to Quantum Mechanics for Quantum Computing and some aspects

Date: 05/01/2022, session-9 Time: 02:30pm - 04:00pm

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RESOURCE PERSON



Dr. Prasanta K. Panigrahi

Professor(IISER), Kolkata, West Bengal

TOPIC - 1 Quantum Computing Algorithms and Applications with case studies

Date: 04/01/2022, Session-5 **Time**: 12.00pm -1.30pm

TOPIC - 2 Relation of Machine Learning and Quantum Computing

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RESOURCE PERSON



Dr. Kunal Das

Assistant Professor (Aacharya Prafulla Chandra College), Kolkata, WB

Quantum Algorithms, Quantum Circuit, Hands-on on IBM Quisit or Dwave

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RESOURCE PERSON



Prof. Dr. Bhawana Rudra

Assistant Professor (Grade II)(National Institute of Technology), Surathkal, Karnataka

TOPIC -1 Evolution of Quantum Computing Architecture

Date: 04/01/2022, Session-4 Time: 10:00am - 11:30am

TOPIC - 2 Hands-on on Quantum Computing with different tools Date: 06/01/2022, Session-12 Time: 02:30pm - 04:00pm

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RESOURCE PERSON



Dr. Gaurav Trivedi

Associate Professor (Department of Electronics and Electrical Engineering), IIT, Guwahati, Assam

TOPIC Post Quantum Cryptography: A New Security Paradigm

Date: 07/01/2022, session-13 Time: 10:00am - 11:30am

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3rd to 7th January 2022

RESOURCE PERSON



Mr. Chirag Patil

Trainer(Art of Living), Nashik

Mental & Emotional Development, Stress Management, Meditation, Human Values and Ethics, Health and Happiness to promote FIT INDIA Movement across the country

Date: 07/01/2022, Session-14

Time: 12:00pm - 01:30pm INSTITUTE OF

ENGINEERING

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The schedule of the workshop was as below-

Dates	10:00 AM to 11:30 AM	30 min break	12.00 PM to 1.30 PM	60 min break	2:30 PM to 4.00 PM
03/01/2022	Session 1: Inauguration, Guest of Honour and Key Note Speech by Prof Dr N. S. Chaudhari, Professor (HAG), IIT, Indore, MP, Address by Principal; Address by HOD	Break	Session 2: Introduction to Quantum Computing (Dr. Sourav Pal, Director, Indian Institute of Science Education and Research Kolkata, India Former Director, CSIR -NCL, Pune, India Former Professor IIT Bombay, India)	Lunch Break	Session 3: Futuristic Paradigms in Quantum Computing (Prof Dr. M U Kharat, Professor and Head, Dept of Computer Engineering, MET's Institute of Engineering, Bhujbal Knowlede City, Nashik)
04/01/2022	Session 4: Quantum Computing Algorithms and Applications with case studies (Dr. Prasanta K. Panigrahi, IISER Kolkata, West Bengal)	Break	Session 5: Quantum Information and Case Studies, (Prof. Dr. Bhawana Rudra, National Institute of Technology, Suratkal, Karnataka (NITK))	Lunch Break	Session 6: Role of Quantum Computing in various domains, (Dr. Vinod Pachghare, Department of Computer Engineering, Associate Professor, College of Engineering, Pune)
05/01/2022	Session 7: Quantum Business Models and importance in the application industry (Mr Manoj Bhatkar, Senior VP, IT Delivery Head, Anand Rathi IT Pvt Ltd, Jodhpur Rajasthan)	Break	Session 8: Quantum Algorithms, Demonstration with Qiskit, (Dr. Rubell Marion Lincy G, Assistant Professor, Indian Institute of Information Technology Kottayam (IIIT) Kottayam)	Lunch Break	Session 9: Introduction to Quantum Mechanics for Quantum Computing and some aspects (Dr. Raman Kumar Jha, Vice Chancellor, Amity University, Ranchi, Jharkhand)
06/01/2022	Session 10: Relation of Machine Learning and Quantum Computing, (Dr. Prasanta K. Panigrahi, IISER Kolkata, West Bengal)	Break	Session 11: Handson on Quantum Computing with different tools (e.g. IBM Quantum Circuit Composer), (Dr. Kunal Das, Asst. Prof., Acharya Pafulla Chandra College, Kolkata, West Bengal)	Lunch Break	Session 12: Handson on Quantum Computing with different tools contd(e.g. IBM Qiskit) (Prof. Dr. Bhawana Rudra, National Institute of Technology, Suratkal, Karnataka (NITK))
07/01/2022	Session 13: Post Quantum Cryptography: A New Security Paradigm (Dr. Gaurav Trivedi, Associate Professor, Department of Electronics and Electrical Engineering, Indian Institute of Technology, Guwahati, - 781039, Assam, India)	Break	Session 14: Mental & Emotional Development, Stress Management, Meditation, Human Values and Ethics, Health and Happiness to promote FIT INDIA Movement across the country (Mr Chirag Patil, Trainer, Art of Living, Nashik)	Lunch Break	Session 15: Feedback, Exam, Valediction

The inauguration was held on 3rd January 2022 online at 10:00 am. Guest of Honour and Keynote Speaker of the function was Prof. Dr. N. S. Chaudhari, Professor (HAG), IIT Indore. Dr. V. P. Wani, Principal MET's IOE, Dr. M. U. Kharat, HOD Comp. Engg.

Dr. V. P. Wani addressed the participants about online FDP and Dr. M. U. Kharat welcome and introduced the Guest of Honor Prof. Dr. N. S. Chaudhari. Prof. Dr. N. S. Chaudhari talked about the Quantum Computing and technical points of it. Prof. Dr. S. V. Ghumaste, proposed Vote of Thanks.

Some screenshots of the inaugural function are as below.

Some Screenshots

