

### CHIEF PATRON

**Sri. N. Subash**

President, CBIT (A)

### PATRON

**Prof. C. V. Narasimhulu**

Principal, CBIT (A).

### CONVENER

**Prof. D. Raman**

Professor & Head, Department of CSE

### COORDINATOR

**Dr. V. Padmavathi**

Associate Professor, Department of CSE

### CO-COORDINATORS

**Dr. Uma Maheswari V.**, Associate Professor

**Dr. Ravi Uyyala**, Associate Professor

**Smt. G. Shanmukhi Rama**, Assistant Professor

### ADVISORY COMMITTEE

**Prof. P. Ravinder Reddy**, Director, R & E, CBIT (A)

**Prof. Umakanta Choudhary**, Advisor, I & I, CBIT (A)

**Prof. A.D Sarma**, Advisor, R&D, CBIT (A)

**Prof. Suresh Pabboju**, Director, AEC, CBIT (A)

**Prof. M. Sushanth Babu**, Director, Academics, CBIT (A)

**Prof. N. T. Rao**, Director IQAC, CBIT (A)

**Prof. P.V.R. Ravindra Reddy**, Director, Student Affairs, CBIT (A)

**Dr. N. L. N Reddy**, Advisor, CDC, CBIT (A)

**Prof. M. Swamy Das**, Professor, CSE, CBIT (A)

**Prof. S. China Ramu**, Professor, CSE, CBIT (A)

### ORGANISING COMMITTEE

**Smt. Ch. Madhavi Sudha**, Assistant Professor

**Sri. A. Mohan**, Assistant Professor

**Sri. M. Venkata Krishna Reddy**, Assistant Professor

**Smt. M. Naga Jyothi**, Programmer

**Sri. B. Sangeev Kumar**, Programmer

**Sri. P. Ramesh Babu**, Programmer

### Resource Persons

- **Dr. Prem Laxman Das**

Society for Electronic Transactions and Security (SETS), Chennai

- **Dr. Kannan Srinathan**

Center for Security, Theory and Algorithmic Research (CSTAR), IIIT Hyderabad

- **Venkat Raman B.**, RGUKT (IIIT), Basar

- **P. Sarika**, RGUKT (IIIT), Basar

- **Chiranjeevi V.**, CSTAR, IIIT Hyderabad.

- **S. Shodasakshari Vidya**, CSTAR, IIIT Hyderabad

- **Dr. V. Padmavathi**, CBIT, Hyderabad

### Intended Participants

Faculty, Research Scholars, Students, and Industry Professionals.

### Registration Fee:

- Rs. 300 for Faculty
- Rs. 200 for Research Scholars & Students
- Rs. 500 for others

80% Attendance is mandatory for receiving FDP Participation Certificate.

### QR CODE for Payment



### Registration Link:

<https://forms.gle/H4tXAwD3N6XwCLor6>

Last Date for Registration: 10-06-2024

### For Registration & Other Details

Contact: **Sri. M. Venkata Krishna Reddy**

Mobile No: 9110568229

Email ID: [krishnareddy\\_cse@cbit.ac.in](mailto:krishnareddy_cse@cbit.ac.in)



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
(Autonomous)

**One Week National Level  
Faculty Development Programme  
(Online Mode)**

On

**Quantum Computing: Building a Rapid and  
Secure Information Tomorrow**

**11<sup>th</sup> – 15<sup>th</sup> June, 2024**

### Registration Form

1. Name: .....
2. Highest Qualification: .....
3. Designation: .....
4. Organization: .....
5. Address: .....
- .....
6. Mobile No: .....
7. Email ID: .....

Signature of the Participant      Signature of the Sponsoring Authority

## ABOUT CBIT (AUTONOMOUS)

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 11 UG and 10 PG Programmes. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programmes are accredited by NBA in the year 1998, 2004, 2008, 2013, 2017, 2022 and Five PG Programmes have been accredited by NBA in 2020. The Institute is accredited by NAAC with CGPA of 3.59 on seven-point scale at 'A++' grade in 2023 for five years. CBIT (A) ranked in the rank band 150-200 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The College Campus is spread across 50 acres.

## ABOUT CSE DEPARTMENT

The Department of CSE was started in the year 1985 with an intake of 20. The intake was gradually increased to 180 with three sections. Department started M. Tech. program in the year 2002 with an intake of 18 and increased to 36 in 2011. CSE Department is a recognized research center under Osmania University. B.E. (CSE) Program was accredited by the NBA for the first time in the year 1998 with 'A' grade for 3 years and being successfully accredited.

The Department has committed and well qualified staff. The faculty is active in publishing their research work in various Conferences / Journals. It has been conducting various workshops and certification programs including Microsoft and IBM, professional activities in collaboration with CSI, ISTE along with student branches of IEEE and CSI.

## ABOUT THE FDP

With the fast growth in communication, there is a need to have rapid and secure information by means of indestructible emerging technology which is quantum computing. This FDP aims to explore the huge potential about the cutting-edge technology. The Five Day FDP features invited talks by leading experts covering broad range of the area including fundamentals of quantum computing, deliberation of quantum algorithms, applications showcasing the benefits of the technology, as well as further challenges. The FDP provides an overview of the field to the interested faculty, scholars, students and industry professionals to discuss the current state of the science and inspire the next generation of researchers to pursue the topic. The FDP is designed for theory, research oriented discussion, which shall be helpful in understanding the process.

## FDP CONTENTS

- Fundamentals of Quantum Computing
- Quantum Key Distribution
- Grover's Search Algorithm
- Quantum Machine Learning (QML) for Image Classification
- Implementation of QML using IBM's Qiskit framework
- Quantum Memory
- Pattern Classification using Quantum Hopfield Network
- Quantum Secret Sharing
- Quantum Multi Party Computation
- How to Break RSA



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### One Week National Level Faculty Development Programme (Online Mode)

On

## Quantum Computing: Building a Rapid and Secure Information Tomorrow

11<sup>th</sup> – 15<sup>th</sup> June, 2024

Organized by

## Department of Computer Science and Engineering

Chaitanya Bharathi Institute of Technology  
(Autonomous)

Affiliated to Osmania University, Accredited  
by NAAC A++ Grade,

Kokapet (V), Gandipet (M), Hyderabad-75,  
Telangana State, India.