



ज्ञान-विज्ञान विमुक्तये

**Sponsored by**  
**University Grants Commission**



**Organized by**

**UGC – Malaviya Mission Teacher  
Training Centre, Jawaharlal Nehru  
Technological University Hyderabad,  
Kukatpally, Hyderabad, Telangana.**

### **About UGC-MMTTC, JNTUH:**

UGC-Malaviya Mission Teacher Training Centre (Formerly known as UGC-Human Resource Development Centre), Jawaharlal Nehru Technological University Hyderabad was established in the year 2000 and sponsored by University Grants Commission, New Delhi. The Malaviya Mission Teacher Training Centre of JNTUH organizes UGC sanctioned programmes viz., Faculty Induction Programmes, Orientation Programmes, Refresher Courses, Short Term Training Programmes, NEP Orientation & Sensitization Programmes and Workshops and AICTE sponsored STTP programmes and Faculty Development Programmes, Outreach Programmes and other Self-Financing Programmes on thrust areas for in-service teachers and also for newly appointed teaching faculty on a regular basis, to update the knowledge and skills in their respective fields.

During the current academic year a One Week Online Short Term Course on “**QUANTUM COMPUTING**” is proposed to be organized by UGC-MMTTC, JNTUH during 24-11-2025 to 29-11-2025, through ONLINE.

### **NO REGISTRATION FEE**

Certificate will be issued to the participants on successful completion of the course.

### **Major Course Contents:**

- Fundamentals of Quantum Computing.
- Mathematical Foundations for Quantum Systems.
- Logic Gates and Circuits.
- Quantum Algorithms (Grover's, Shor's, Deutsch-Jozsa).
- Introduction to Quantum Programming Tools.
- Quantum Programming using Qiskit and Google Cirq platforms.
- Quantum Teleportation and Cryptography.
- Quantum Error Correction Techniques.
- Quantum Machine Learning Basics
- Exploration of hybrid models like Quantum SVMs and Quantum Neural Networks.
- Basics of Quantum simulation and Cloud Platforms.
- Applications of Quantum Computing.
- Research Trends and Career Opportunities in Quantum Computing.

## **One -Week Online Short Term Course on “QUANTUM COMPUTING”**

**24-11-2025 to 29-11-2025**

**Sponsored by**  
**University Grants Commission**

### **CHIEF PATRON**



**Prof. T. Kishen Kumar Reddy**  
**Hon'ble Vice-Chancellor**  
**JNTUH, Hyderabad**

### **PATRON**



**Dr. K. Vijaya Kumar Reddy**  
**Rector, JNTUH**  
**Hyderabad, T.S**

### **PATRON**



**Dr. K. Venkateswara Rao**  
**Registrar, JNTUH**  
**Hyderabad, T.S.**

### **CONVENER**

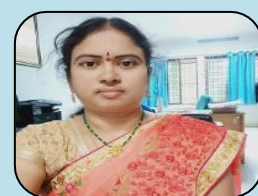


**Dr. M. Sushama**  
**Director (I/c), UGC MMTTC,**  
**JNTUH, Hyderabad, T.S.**

### **COORDINATORS**



**Dr. B. Sateesh Kumar**  
**Professor of CSE & Head,**  
**JNTUH UCEJ, Jagtial, T.S.**



**Dr. Uma Rani Vanamala**  
**Professor in CSE & Head**  
**Dept. of IT, JNTUH UCETH**  
**Hyderabad, T.S.**

### Eligibility:

- The faculty members from the departments of CSE, IT, Computational Linguistics, EEE, ECE, ME, AIML, Data Science, Cyber Security, Mathematics and related disciplines working in Universities and Colleges.
- The faculty members have to be sponsored by the concerned Principal of the College/Head of the Institution for considering the participation in the Programme.

### How to apply:

- The faculty members desirous to participate in the program are requested to register their details through online mode at <https://jntuhhrdc.in/delegate-registration> on or before 20th November 2025.
- Login to UGC HRDC Portal and register as participant by visiting: <https://jntuhhrdc.in/delegate-registration>
- A filled-in form of application duly signed by the faculty member and forwarded by the Head of the Institution. And letter of forwarding from the Head of the Institution, should be uploaded in HRDC <https://jntuhhrdc.in/delegate-registration> portal on or before the last date.

### Confirmation by Participants:

- Confirmation by Participants is a must, as per the date specified overleaf. If the confirmed number of participants is less than 60, the course may be re-scheduled.

### Resource Persons:

- Resource persons are drawn from different Universities, Institutions, IITs, NITs, IIITs and R&D establishments.

### Selection Criteria:

- Selection will be done based on *first-come-first-serve basis* to a maximum number of 80. The list of selected participants will be intimated through E-mail.

### Important Dates:

Last date for the receipt of application through

online: **20<sup>th</sup> November**

Intimation of selection to the participants through

e-mail: **21<sup>st</sup> November**

Course duration: **24-11-2025 to 29-11-2025**

Course Timings: **10.00 AM to 1.15 PM &  
2.00 PM to 5.15 PM**

*Address for all Correspondence*

**Dr. M. Sushama**

**Professor, Dept. of EEE & Director (I/c)**

**UGC-Malaviya Mission Teacher Training Centre**

**Jawaharlal Nehru Technological University**

**Hyderabad, Kukatpally, Hyderabad –**

**500 085, Telangana.**

**Please contact: 8008103814**

**(All working days from 10.30 am to 5.00 pm only)**

**or [directorhrdcjntuh@jntuh.ac.in](mailto:directorhrdcjntuh@jntuh.ac.in) for more enquiries about the Short Term Course**

**Web: [www.jntuhhrdc.in](http://www.jntuhhrdc.in)**

### Instructions to the Participants for Online Course:

- Filling the registration form is mandatory.
- Attendance for all the sessions, Completion of activities, assignments and online tests given by the Resource Persons are mandatory.
- All sessions will be conducted in Google Meet.
- Link will be provided a day in advance.
- Limited seats are available on a First-Come-First-Serve basis.
- During the course, each teacher-participant will be required to work on a mini Project important topics related to the theme of this course
- There will be an online assessment test in the form of MCQ's. An online certificate will be issued to those who have successfully attended the 6 days programme and qualified the assessment test.