



# UGC sponsored Two-Week Online Refresher Course on “Principles of Engineering Mechanics and Mechanics of Solids”



(09-09-2024 to 24-09-2024)

Organized by

UGC – MALAVIYA MISSION TEACHER TRAINING CENTRE  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
KUKATPALLY, HYDERABAD, TELANGANA STATE

## About UGC-MMTTC, JNTUH:

The UGC-Malaviya Mission Teacher Training Centre (formerly known as 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 and 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 two-week Refresher Course on “Principles of Engineering Mechanics and Mechanics of Solids” is proposed to be organized by UGC-MMTTC, JNTUH during 09-09-2024 to 24-09-2024, through ONLINE.

## Major Course Contents:

- Fundamentals of Engineering Mechanics
- Analysis of beams and frames Theories of failure and Laws of friction
- Kinetics of rigid bodies and laws of motion and work energy principles
- Simple harmonic motion and mechanical vibrations
- Unsymmetrical bending and stability analysis of columns Centre of gravity and moment of inertia
- Stresses and strains bending stresses, principal stresses, Torsion
- Column subjected to axial and eccentric loading
- Nonmaterial's and Their Applications in Mechanical Engineering
- Role of surface coating in improving resistance to surface degradation
- Structural Mechanics Aspects of Nuclear Reactor Components
- Basics of machine learning

## NO REGISTRATION FEE

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



### CHIEF PATRON

**Sri. B. Venkatesham, IAS**  
Hon'ble Vice-Chancellor (i/c)  
JNTUH, Hyderabad

### CONVENER

**Dr. G.N. Srinivas**  
Sr. Professor, Dept. of EEE &  
Director, UGC-MMTTC, JNTUH,  
Hyderabad



## COURSE COORDINATORS:



**Dr. N. Darga Kumar**  
Associate Professor,  
Dept. of Civil Engineering,  
JNTUH UCESTH,  
Hyderabad, T.S.

**Dr. Gugulothu Ravi**  
Assistant Professor (Contract),  
Dept. of Mechanical  
Engineering, JNTUH UCESTH  
Hyderabad, T.S.



### Eligibility:

- The faculty members from the departments of Mechanical Engineering, Civil Engineering, Metallurgical Engineering, Chemical Engineering, Aeronautical Engineering and related disciplines working in Universities and Colleges.
- The faculty members have to forward the application through 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 **4th September 2024**. Filling the online registration form is mandatory.
- 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 portal <https://jntuhhrdc.in/delegate-registration> on or before the last date.

### Resource Persons:

Resource persons are drawn from different Universities, Institutions and R&D establishments.

### Selection Criteria:

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

### Important Dates:

Last date for the receipt of application through online	: 04-09-2024
Intimation of selection to the participants through email	: 05-09-2024
Course duration	: 09-09-2024 to 24-09-2024
Course Timings	: 10.00 AM to 1.15 PM & 2.00 PM to 5.15 PM

### Instructions to the Participants for Online Course:

- (1) Filling the registration form is mandatory.
- (2) Attendance for all the sessions, Completion of activities, assignments and online tests given by the Resource Persons are mandatory.
- (3) All sessions will be conducted in Google Meet.
- (4) Link will be provided a day in advance.
- (5) Limited seats are available on a First-Come-First-Serve basis.
- (6) During the course, each teacher-participant will be required to work on a mini project on important topics related to the theme of this course

### Address for all Correspondence:

**Dr. G.N. Srinivas**

Sr. Professor, Dept. of EEE & Director,

UGC-Malaviya Mission Teacher Training Centre

Jawaharlal Nehru Technological University Hyderabad

Kukatpally, Hyderabad – 500 085, Telangana State

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)