



UGC sponsored Two-Week Online Refresher Course on
“ROBOTICS”
(19-02-2024 to 02-03-2024)



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 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 Human Resource Development Centre of JNTUH organizes UGC sanctioned programmes viz., Faculty Induction Programmes, Orientation Programmes, Refresher Courses, Short Term Training Programmes, NEP Orientation & Sensitization Programmes, Workshops and AICTE sponsored STTP programmes and Faculty Development Programmes, TEQIP sponsored 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 “**Robotics**” is proposed to be organized by MMTTC, JNTUH during 19-02-2024 to 02-03-2024, through ONLINE.

Major Course Contents:

- Artificial Intelligence in Manufacturing
- Fundamentals of Artificial Intelligence
- Kinematics and Dynamics of Robotic System
- Kinematics and Dynamics of Autonomous Vehicles
- Fundamentals of Robotic System
- Additive Manufacturing Technology
- Coordinate and homogeneous transformations, Trajectory Planning
- Kinematics and Dynamics of Robotic System
- Robot Sensing and Vision
- Intelligence systems and Interface
- Fundamentals of Neural Networks
- Hyper parameter Tuning, Regularization, CNN, LSTM, GRU
- Knowledge Engineering and Expert System
- Autonomous Vehicles
- Learning-based Robotics for Autonomous Navigation
- Coordinates and Transformations
- Rigid body Dynamics

Registration Fee Particulars:

- The Registration fee for the course is **Rs. 1000/- (Rupees One Thousand Only)** to be paid through online payment mode.
- Certificate will be issued to the participants on successful completion of the course.



CHIEF PATRON
Prof. Katta Narasimha Reddy
Hon'ble Vice-Chancellor
JNTUH, Hyderabad

CONVENER
Dr. G.K. Viswanadh
Sr. Professor of Civil Engineering &
Director
UGC-MMTTC, JNTUH, Hyderabad



COURSE COORDINATORS



Dr. S. Naga Sarada
Professor, Dept. of Mechanical
Engineering, JNTUH,
Hyderabad, T.S.

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



Eligibility:

- The faculty members working in Universities and Colleges from the departments of ME, Aeronautical Engineering, CSE, IT, EEE, ECE and related disciplines.
- 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 12th February, 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 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	:	12-02-2024
Intimation of selection to the participants through email	:	13-02-2024
Course duration	:	19-02-2024 to 02-03-2024
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,
- (3) Completion of activities, assignments and online tests given by the Resource Persons are mandatory.
- (4) All sessions will be conducted in Google Meet.
- (5) Link will be provided a day in advance.
- (6) Limited seats are available on a First-Come-First-Serve basis.
- (7) 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.K. Viswanadh

Sr. Professor of Civil Engineering &

Director, 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 for more enquiries about the Programme

Web: www.jntuhhrdc.in