



NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH

DEPARTMENT OF CIVIL ENGINEERING

Five Day Virtual Faculty Development Programme on

ADVANCES IN THEORETICAL AND COMPUTATIONAL MECHANICS

(October 26th -30th 2020)

The Department of Civil Engineering, National Institute of Technology Andhra Pradesh is happy to announce Virtual Faculty Development Programme (FDP) in **ADVANCES IN THEORETICAL AND COMPUTATIONAL MECHANICS**. We invite applications from motivated Faculty Members, Industrial Professionals, Research Scholars and Post Graduate (PG) students to enhance the knowledge about solid mechanics and allied areas.



Chief Patron

Prof. C. S. P. Rao
Director, NIT Andhra Pradesh



Coordinator

Dr. Shaik Mahabu Subhani
Assistant Professor, NIT Andhra Pradesh

About the Programme

The focus of this FDP on “**ADVANCES IN THEORETICAL AND COMPUTATIONAL MECHANICS**” is to acquaint the participants with theory, research and practice of mechanics through lectures covering both fundamentals and applications. The content covers a range of topics including material modelling, composite mechanics, and finite element methods.

About the Institute

National Institute of Technology Andhra Pradesh is the 31st institution among the chain of NITs started by the Government of India. NIT Andhra Pradesh was established in the state of Andhra Pradesh in the year 2015. The institute offers B.Tech., M.Tech., M.S. (by Research) and Ph.D. Programmes in Eight Engineering Disciplines.

Who Can Attend

Faculty Members, Industrial Professionals, Research Scholars and PG Students. The entry is restricted to 150 participants. Participants who successfully complete the course will be issued an E-certificate.

About the Department

The Civil Engineering Department offers B. Tech, M.Tech (Geotechnical Engineering), M.S (by Research) and Ph.D. Programmes. Faculty research interests include, but are not limited to the following areas: Constitutive modelling, Smart composites, Concrete Technology, Earthquake Geotechniques, Environmental Geotechnology, Water & Wastewater Treatment, GIS-based Hydrological Modelling, and Integrated Watershed Management.

Organizing Team

Dr. Baranidaran S, Head of the Department (Convenor),

Members:

Civil Engineering Department Faculty

Email for Communication

fdp.civil@nitandhra.ac.in

Speakers



Prof. Tarun Kant
Professor Emeritus, IIT Bombay



Prof. A. Arockiarajan
Professor, IIT Madras



Dr. Sheikh Faruque Ali
Associate Professor, IIT Madras



Dr. Parag Ravindran
Associate Professor, IIT Madras



Dr. Maniprakash S
Assistant Professor, IITDM Kurnool



Dr. Deves Punera
Assistant Professor, IIT Bhubaneswar



J. Ramanatham
Scientist-E, Ministry of Defence



Dr. Jithin Jith
Modelling and Simulation Engineer
Schlumberger, Coimbatore



Dr. Sheikh Najam
Senior Analyst, Global Data Insights and
Analytics, Ford Motors Private
Limited, Chennai.

Date	FN (10:30 AM to 12:00 NOON)	AN (02:30 to 04:00 PM)
26-10-20	Advances In Theoretical and Computational Mechanics : Overview Speaker: Prof. Tarun Kant	An Open Source Approach to Finite Element Analysis Speaker: Dr. Jithin Jith
27-10-20	Mechanics of Soft Tissues Speaker: Dr. Parag Ravindran	Finite Element Formulation of Coupled Problems Speaker: Prof A Arockiarajan
28-10-20	Thermodynamics in Material Modelling Speaker: Dr. Mani Prakash S	Variable Stiffness concept in Mechanics: Modelling of Functionally Graded and Angle Tow Composites Speaker: Dr. Deves Punera
29-10-20	Modelling of Incompressible Hyper Elastic Materials Speaker: Mr. Ramanathan	Structural Materials for Morphing Aircraft Speaker: Dr. Shaikh Faruque Ali
30-10-20	Failure Mechanisms and Fracture Energy of Hybrid Materials Speaker: Dr. Sheikh Najam	Automation and Reduced Order Modelling in Finite Element Analysis: An Industrial Perspective Speaker: Dr. Jithin Jith

Registration

The Registration fee is Rs. 500/- for Faculty and Industrial Professionals. The Registration fee is Rs. 300/- for Research Scholars and PG Students. The fee is non-refundable. *Please [click here](#) for online registration.*

Important Dates

Registration is open until 22-10-2020 (05:00 PM) or until the maximum intake (as determined by NIT Andhra Pradesh) is met, whichever happens earlier.

Modality of the Programme

Online-Google Meet

Payment Details

Account Name: Director, NIT Andhra Pradesh
Account Number: 34999 496394
IFSC Code: SBIN0016305
Name of the Bank: State Bank of India
Branch: Satyavathi Nagar,
Tadepalligudem -534 102