A FIVE DAY ONLINE WORKSHOP ON
Computational Geomechanics – Theory and Applications to Earthquake Engineering
24th – 28th August, 2020

(Under Center for Continuing Education Programmes, NIT Warangal)

Coordinator
Dr. G Kalyan Kumar
Assistant Professor
Department of Civil Engineering, NIT Warangal

Organized by
Department of Civil Engineering
National Institute of Technology Warangal
Warangal- 506004, Telangana, INDIA

ABOUT THE WORKSHOP
Protection of cities from earthquake damage as well as protection of the inhabitants from injury and loss of lives are the responsibilities of engineers. It is very important that the civil engineers in seismic countries understand the nature of earthquakes, and how to design and build structures to resist strong ground shaking taking into the account the soil-structure interaction involved. The welfare of a city depends very strongly upon the continued supply of water supply, sewers, electric power, gas, communication network, etc. Every one of those infrastructures mentioned above are connected directly or indirectly to the ground, and thus are vulnerable to earthquakes. The modern day geotechnical engineers and researchers have a huge responsibility to design a city’s infrastructures to make them resilient against earthquakes. In order to achieve that, adequate knowledge of earthquakes, nature of earthquakes and ground shaking, seismicity, related hazards from earthquakes and innovative techniques for earthquake hazards mitigation are very important.

This workshop first focuses on Earthquake Geotechnical Engineering covering aspects of geology, seismology, geotechnical engineering, structural engineering, soil-structure interaction and related areas. The course then explains various earthquake geotechnical hazards through numerous case studies during the past devastating earthquakes from around the world. Finally, the course describes hazard mitigation techniques and strategies covering the recent state-of-art research and development in many industrialized countries.

This workshop would help participants to apply the concepts of Earthquake Engineering to get knowledge required to choose this leading domain as a research area, and the research directions for working with various fields of Earthquake Engineering.

TOPICS TO BE COVERED
- Fundamentals of geotechnical earthquake engineering
- Dynamic Soil Properties and Local Site Effects
- Ground Motion Characteristics
- Stresses and Strains in Soils and Structures
- Constitutive Models and Applications in Earthquake Geotechnics
- Seismic Soil-Structure Interaction: Theory and Applications

RESOURCE PERSONS
Prof. G R Dodagoudar, IIT Madras
Dr. Chandrasekar Annavarapu, IIT Madras
Dr. Rakesh J Pillai, IIT Palakkad
Dr. G Kalyan Kumar, NIT Warangal

REGISTRATION FEE AND SELECTION
Registration fee is Rs. 500/- per participant. Number of participants is limited to hundred. On receipt of the proof (Transaction ID) of online payment of registration fee, the applicants will be sent confirmation of their participation through Email immediately.

ELIGIBILITY
The program is open to all the faculty members, research scholars, and students of all educational/research institutions.
HOW TO APPLY

One can register for the course by filling in the Google form available at the link given below

https://docs.google.com/forms/d/e/1FAIpQLSckUlG5ugVxk_g1PkJEMrGMYLHL_C-6WrscfLuWhH7ng/viewform?vc=0&c=0&w=1

The registration link is active as long as the workshop participant’s limit is not reached.

IMPORTANT DATES

Last date of registration: 23rd August 2020, 6 PM

ABOUT WARRANGAL

Warangal is the second largest city in the state of Telangana. It is historically known as Orugallu or Ekashila nagaram (city carved in single stone). It is a part of tri-cities along with Kazipet and Hanamkonda. Warangal is considered the cultural capital of Telangana with many historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Laknavaram Lake located in a radius of 30 kms.

ABOUT NIT WARRANGAL

NIT Warangal, formerly known as Regional Engineering College (REC) was established in 1959. Over the years it has developed into a premier institute of higher learning in India. There are 14 Departments offering 8 undergraduate and 31 postgraduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, auditorium, guest houses and laboratories.

The campus is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202).

ABOUT THE DEPARTMENT

The Department of Civil Engineering is one of the oldest departments of the college with one undergraduate and 7 postgraduate programs. The department is privileged to be recognized as one of the best civil engineering departments in the country. It was the only department to have been recognized as a QIP centre right from 1972 and now all the departments are QIP centres. The department has excellent labs to cater to both UG, PG and research programs. The department is well equipped for carrying out research in upcoming areas of Civil Engineering. The department offers consultancy and testing services also.

ACCOUNT DETAILS FOR ONLINE FEE PAYMENT

Account Name: Center for Continuing Education NITW
Name of the Bank: State Bank of India (SBI)
Account Number: 62403680215 (Savings Account)
IFSC Code: SBIN0020149
Branch: NIT Warangal

ADDRESS FOR CORRESPONDENCE

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FORMAT OF GOOGLE FORM

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