

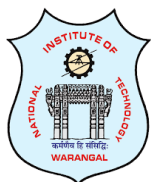
## NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL, Warangal - 506 004, Telangana

(Under Center for Continuing Education  
Programmes, NIT Warangal)

in association with

Hydraulic and Engineering Instruments, HEICO



A five day Indo – UK Webinar on

### Advanced Design of Deep Foundations for Seismic, Bridge, and Offshore Applications

23<sup>rd</sup> – 27<sup>th</sup> August, 2021

#### Coordinators

**Dr. G Kalyan Kumar**

Assistant Professor

**Dr. Sanjit Biswas**

Assistant Professor

**Dr. Sudheer Kumar Yamsani**

Assistant Professor

#### Organized by

Department of Civil Engineering

National Institute of Technology Warangal

Warangal - 506 004, Telangana

## ABOUT THE WORKSHOP

The modern-day geotechnical engineers have a huge responsibility to design infrastructure that are to be constructed on soils having low bearing capacity. Dealing with very large design loads and a poor soil at shallow depth, or site constraints like property lines, a deep foundation is likely to be the optimum solution. Deep foundation which is placed at a greater depth below the ground surface, derives its support from competent strata and the construction process of a deep foundation is more complex and relatively expensive than shallow foundations. Deep foundations are usually subjected to different types of loads namely seismic, cyclic, axial, lateral, and uplift loads. Hence design of these deep foundations for different applications is complex in nature.

This workshop focuses on the advanced design of deep foundations for seismic, high-rise, bridge, and offshore applications. It covers all the aspects related to design and application of various techniques available for design of deep foundations. Finally, the course describes the design procedures for actively and passively loaded piles. This workshop also provides hands on experience for participants in the softwares such as PLAXIS 3D, GeoStudio, and Abaqus. It would help participants to apply the design principles suitable for seismic, bridge, and offshore applications.

## TOPICS TO BE COVERED

Numerical modelling of actively and passively laterally loaded piles  
Seismic Soil-Pile interaction analysis of Piles  
Applications for Bridges and Offshore structures  
Hands on experience sessions for PLAXIS 3D, Abaqus, and GeoStudio

## RESOURCE PERSONS

**Prof. Subhamoy Bhattacharya**, University of Surrey, UK

**Prof. Fethi Azizi**, University of Plymouth, UK

**Prof. G R Dodagoudar**, IIT Madras

**Dr. Arindam Dey**, IIT Guwahati

**Dr. Anasua Guharay**, BITS-Pilani Hyderabad

**Mr. Raunaq Singh**, HEICO, New Delhi

**Dr. G Kalyan Kumar**, NIT Warangal

**Dr. Sanjit Biswas**, NIT Warangal

**Dr. Sudheer Kumar Yamsani**, NIT Warangal

## REGISTRATION FEE AND SELECTION

The registration fee is as follows:

M.Tech Students – Rs. 1000

Research Scholars – Rs. 1500

Industry professionals – Rs. 5000

On receipt of the proof (Transaction ID) of online payment of registration fee, the applicants will be sent confirmation of their participation through Email.

## ELIGIBILITY

The program is open to all the faculty members, research scholars, students of all educational/research institutions and industry professionals.

## HOW TO APPLY

One can register for the course by filling in the Google form

<https://forms.gle/cfbisgTDE3JwQQzN8>

Last date of registration : **22<sup>nd</sup> August 2021**

Participants are advised to install MS-Excel and MATLAB in their laptops

## ABOUT NIT WARANGAL

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 post-graduate 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 163).

## 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 center right from 1972 and now all the departments are QIP centers. 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  
IFSC Code: SBIN0020149  
Branch: NIT Warangal

## ADDRESS FOR CORRESPONDENCE

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**Dr. Sanjit Biswas**, Co-ordinator

Mobile: 8332969265, E-mail: [sbiswas@nitw.ac.in](mailto:sbiswas@nitw.ac.in)

**Dr. Sudheer Kumar Yamsani**, Co-ordinator

Mobile: 8486367769, E-mail: [skyamsani@nitw.ac.in](mailto:skyamsani@nitw.ac.in)

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HYDRAULIC & ENGINEERING INSTRUMENTS

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**23<sup>rd</sup> – 27<sup>th</sup> August, 2021**

1. Name :
2. Educational qualification :
3. Designation :
4. Department :
5. Institution :
6. E-mail :
7. Contact No :
8. Transaction ID :
9. Transaction Copy