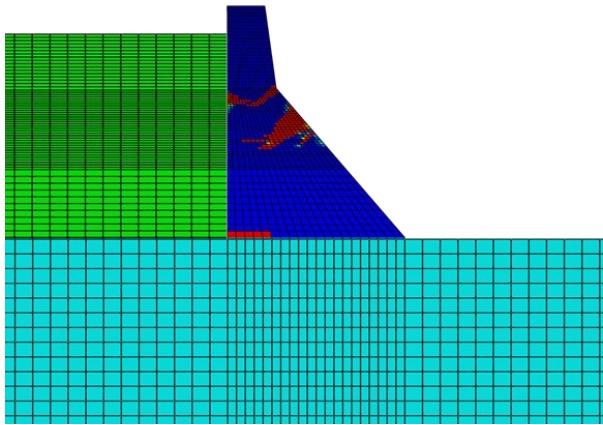


Five Days Short Term Training Programme

on

Modelling Issues of Soil-Structure Interaction Problem

08th –12th July 2019 at VNIT Nagpur



Organised by:

Department of Civil Engineering
Visvesvaraya National Institute of Technology,
Nagpur

In Association with:

Department of Civil Engineering
Samrat Ashok Technological Institute, Vidisha

In Collaboration with:

EDS Technologies Private Limited, Pune



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TECHNICAL EDUCATION QUALITY IMPROVEMENT
PROGRAMME: TEQIP-III

About the Institute

Visvesvaraya National Institute of Technology, Nagpur is one of the thirty National Institutes of Technology in the country. It is an Institute of National Importance, named after Bharat Ratna Sir M. Visvesvaraya. Earlier, the Institute was known as Visvesvaraya Regional College of Engineering (VRCE). It was established in the year 1960 under the scheme sponsored by Govt. of India and Govt. of Maharashtra. The vision of institute is to contribute effectively to the national endeavour of producing quality human resource of world class standard by developing a sustainable technical education system to meet the changing technological needs of the country incorporating relevant social concerns and to build an environment to create and propagate innovative technologies for the economic development of the nation.



About the Department

The Department of Civil Engineering is one of the finest and oldest engineering department of the Institute and stands with an immortal reputation. The department was formed along with the Institute itself and therefore is as old. The Department has highly educated and well experienced faculty members who endeavour to produce finest engineers, contributing incredibly to the nation. The alumni of the department are widespread in India and abroad, occupying high positions in their respective fields. The Department has an intake of 92 students per year under UG Course and 80 students per year under PG Courses.

For registration and further information please contact:

Course Coordinators

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Convener

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Programme Faculty

Course is intended to provide detailed and step-wise discussions on various aspects of modelling issues in soil-structure-interaction. Faculties from IIT, NIT and Industry will be delivering the lectures.

You Should Attend if...

- You are a student at M.E./M.Tech./MS/PhD or faculty from reputed academic institutions and technical institutions with Civil Engineering background.
- You are a faculty teaching the subject soil-structure-interaction
- You are an executive, engineer or researcher from manufacturing, consultancy firm service and government organizations including R&D laboratories.

Objective of the Course

Soil-structure interaction is a very important and relatively new topic in geotechnical earthquake engineering. At present, there is very less interaction between the geotechnical consultant and the structural designers. Generally, the structures are designed considering the fixed base assumption and for foundation design the loads are considered from the superstructure. However, in reality the performance of any structure during an earthquake depends on the combined behaviour of the structure and foundation. Therefore, it is important to consider the interaction between the substructure and the superstructure and further it is essential to model the physical problem accurately. To achieve this numerical modelling plays a very important role.

The course is inter disciplinary in nature and is planned in a way so that it starts with fundamental concepts and focuses on hands on training in modelling of soil-structure interaction problems using numerical method.

The course will be of interest to practicing structural engineers, geotechnical consultants, researchers and academicians who work on relevant research or design topics in research centres, universities, industry and government agencies.

The primary objectives of this programme are to provide the details of assumptions, theories and application methods for modelling soil-structure interaction to the participants and to introduce the relevant Indian/International codes of practice.

Course Contents

- Fundamentals of finite element method
- Structural dynamics/ soil dynamics
- Modelling issues of soil-foundation-structure system
- Interaction problems
- Liquefaction
- Indian/ International Standards and codes of practice related to SSI
- Hands on training in FEM software

Workshop Registration

- Course is free for participants from educational Institutes
- Practicing engineers and participants from industries shall pay a course fee of Rs. 5000/-. This fee shall be paid through a demand draft drawn in favour of 'Director VNIT', payable at Nagpur.
- Interested candidates shall email the scanned copy of duly filled application form and demand draft (if applicable) to **ssi.civ.vnit@gmail.com**
- Registration will be done on first come first served basis to a maximum of 50 seats and selected candidates will be informed through mail
- No TA/DA will be provided
- Limited accommodation can be made available, if requested in advance, in the hostels (Rs. 250/ per day) /guest houses (Rs. 1800/- per day per twin room) of VNIT as per Institute norms for out stationed candidates on twin sharing basis.

Important Dates

- 30/05/2018 Date of announcement
- 16/06/2019 Last date of application
- 18/06/2019 Communication to selected candidates by mail
- 08/07/2019-09/07/2019 Theory lectures
- 10/07/2019-12/07/2019 FEM application and hands on training sessions

For more detail information please go through institute website www.vnit.ac.in/civil

Web Transmission

This course is also being transmitted through web-link to SATI Vidisha. Interested candidate who want to attend the webcast at SATI Vidisha can contact Mr. Bharat Singh Chauhan.

Application Form

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(Form can be photocopied if more copies are required)

Name: _____

Designation: _____ Age: _____

Organization: _____

Address: _____

Tel: _____

Mobile: _____

E-mail: _____

Educational Qualification: _____

Experience: _____

Accommodation Request (Subjected to availability):

Date: _____

Signature of Applicant

Signature of Head of the

Institution/company/department with Seal