About The Course

This course provides a theoretical framework for understanding seismic design for various structures. It will be delivered as a series of 8 lectures of 1.5-hour sessions over 2 days where you will learn the basics of seismic design, dynamic analysis as well as code-related design to structures.

The Lecture includes Structural Response under dynamic loading. The basic design principles in the relevant design guidance will be introduced. Also, EC8 which is euro code 8: Design of structures for earthquake resistance will be introduced.

On completion of the course, you will be able to apply a sound knowledge of various technologies for checking the response of structures and foundations under seismic loading.

Who should attend?

The course is intended for Engineers, Operations Managers, Applied Scientists and Technologists interested in design & structure under seismic loading. Engineers, Managers and Scientists involved in design, assessment and management of a wide range of engineering structures will also benefit from this course.

Cost

The registration fee of the workshop Will be £695 +VAT (VAT UK ONLY)
Which includes course notes.

Payment

Payments can be made by cheque (made payable to ASRANet Ltd.), cash or bank transfer. Please enquire for details.

Contact Us

ASRANet

Limited

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Seismic Structural Design and Foundations

ONLINE

3-4 June 2024

(A Maritime Company for Courses, Conferences, and Research)

PROGRAMME (All timings are in BST (GMT +1))

Monday 3 June 2024

09:00 – 10:30 **Lecture 1:** Structural frames: Earthquake damage characteristics and causes

Dr. Joshua Omer

10:30 –11:00 *Break*

11:00 – 12:30 **Lecture 2**: Introduction to Eurocode 8

Dr. Joshua Omer

12:30 – 13:00 *Lunch*

13:00 – 14:30 **Lecture 3**: Structural Performance Requirements & Compliance Criteria

Dr. Joshua Omer

14:30 – 15:00 *Break*

15:00 – 16.30 **Lecture 4:** Ground Motions and Geotechnical Aspects

Dr. Joshua Omer

Tuesday 4 June 2024

09:00 – 10:30 **Lecture 5:** Response Spectrum Analysis

Dr. Joshua Omer

10:30 – 11:00 *Break*

11:00 – 12:30 **Lecture 6**: Equivalent static analysis

Dr. Joshua Omer

12:30 – 13:00 *Lunch*

13:00 – 14:30 **Lecture 7:** More advanced Structural dynamics

Dr. Joshua Omer

14:30 –15:00 *Break*

15:00 – 16:30 **Lecture 8:** Design and Detailing for seismic resistance: safety Verifications

Dr. Joshua Omer

Dr Joshua Omer

Dr Joshua Omer is a Senior Lecturer in Geotechnical Engineering in the Faculty of Engineering, Computing and Environment, Kingston University, London. He holds a First-Class honors BEng in Civil Engineering, a MSc in Structures and PhD in Geotechnical Engineering specializing in Piled Foundations. He has over 30 years, having worked both in industry and academia in the UK and overseas. He has undertaken a range of consultancy projects and published over 60 research papers in journals and conferences, supervised several PhD students and served as external examiner for PhD theses in UK and overseas universities. Dr Omer is a past recipient of the biannual David Douglas Prize and lecture, awarded by the South Wales Institute of Engineers, UK, for engineering excellence in a paper competition open to all engineers working in South Wales region. He is a former Royal Society Industrial Fellow and winner of the Research & Development award of the Institution of Civil Engineers. Dr Omer is a member of the editorial board of the Geo-engineering Case studies Journal of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) and represents the British Geotechnical Association in the ISSMGE Technical Committee TC107-Lateritic Soils. He is also a member of the Drilled Shafts Technical Committee of the Deep Foundations Institute, USA.