

Geotechnics for Offshore Structures

IN-HOUSE COURSE



COST

The registration fee for the course will be £3000 plus VAT (UK ONLY) for a minimum of 6 people. For additional persons, it will be £600 plus VAT per person.

COURSE MATERIAL

The lecture notes will be sent in advance.

Payment

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

Contact

ASRANet Limited
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ABOUT THE COURSE

The purpose of the course is to provide a comprehensive background to the various aspects of soil mechanics and geotechnical engineering. It is aimed at those who are involved in as well as provide support services to the geotechnical engineering.

Design and construction industry, including government agencies, clients, consultants, contractors and insurance sector.

WHO SHOULD ATTEND

The intended audience for this course are graduate civil mechanical and structural engineers wanting to develop their understanding and skills, engineering geologists with some design experience wanting to develop or refresh their understanding, and graduate and recently chartered geotechnical engineers wanting to refresh their understanding.

PROGRAMME SCHEDULE [Timings in BST (GMT+1)]

Day 1

09.00 - 09.30	Delegate Registration
09.30-11.00	Lecture1: Overview of Geotechnical Engineering <i>Prof Ana Ivanovic</i>
11.00-11.15	Break
11.15-12.45	Lecture2: Soil Characterisation and Fundamental Soil Mechanics <i>Prof Ana Ivanovic</i>
12.45-13.30	Lunch
13.30-15.00	Lecture3: Site Data Collection & Interpretation <i>Prof Ana Ivanovic</i>
15.00-15.30	Break
15.30-17.00	Lecture 4: Foundation Concepts <i>Prof Ana Ivanovic</i>

Day 2

09.00-10.30	Lecture5: Geotechnical Analysis for Offshore Structures <i>Prof Ana Ivanovic</i>
10.30-10.45	Break
10.45-12.15	Lecture6: Design of Mudmats for Offshore Structures <i>T Hodgson</i>
12.15-13.30	Lunch
13.30-15.00	Lecture7: Design of Mooring Anchors & Suction Piles <i>T Hodgson</i>
15.00-15.30	Break
15.30-17.00	Lecture 8: Pile Design for Offshore Structures <i>T Hodgson</i>

ABOUT THE LECTURERS:

Professor Ana Ivanovic, University Of Aberdeen,UK

Ana Ivanović, PhD, CEng, MICE is a Professor in Engineering in the School of Engineering at the University of Aberdeen, with a background in civil engineering and geotechnics. Her research has focused on investigating the influence of iceberg scour on marine pipelines and the influence of trawling gear components on the seabed using both laboratory and numerical modeling approaches. Ana has also investigated numerical modeling of ground anchorages along with complementary laboratory experiments of anchorages installed in both rock and soil, with funding which she secured from the EPSRC. Ana has been an investigator on the EU research projects DEGREE and BENTHIS, looking at the impact of fishing gear elements on the benthos. She has published numerous papers in peer review journals and conference proceedings. Ana was seconded (part time) to Technip UK during 2011, through funding she secured through the Royal Academy of Engineering. In this role she was involved in both project support and R&D. More recently she has been involved in the EU project on decommissioning of wind farms and is currently involved in projects looking into the decommissioning of bundles as well as the interaction between floating offshore renewables and fishing gears/pipelines.

Trevor Hodgson, Kent plc, UK

Trevor Hodgson is in his second spell with Atkins, having been with them in total for well over thirty years. He has spent the majority of this time working in offshore-related areas, both in the technical execution of this work and in the management of teams of engineers to achieve specified goals. He has extensive experience of conceptual and detail design for jacket structures and topsides, including over thirty platforms in SE Asia, and concrete structures in the North Sea and worldwide. His experience encompasses both shallow and deeper water platforms of steel and concrete construction, drilling riser and conductor analysis, semi-submersible and FPSO vessels, high-speed aluminium surface craft, and even peer review for the nuclear industry. He has recently been involved in the development of concepts and detailed designs for the offshore renewable energy market, including wind, wave and tidal energy conversion devices, most recently Wind Turbine Generator (WTG) substructures.

He is highly experienced in the application and interpretation of advanced finite element analysis methods for the design process and has used this experience to great effect in the development and support of engineering software, primarily the ASAS: OFFSHORE suite for the oil and gas industry, now part of ANSYS. He is the author of numerous texts on structural design and analysis, was convenor of a panel covering Structural Analysis of Fixed Concrete Platforms for the ISO standard on offshore installations, and lectures for ASRANet and the Universities of Glasgow and Strathclyde on offshore structures and renewables.