

## ABOUT THE COURSE

The course will aim to teach structural modelling of fixed platforms, which includes calculation of hydrodynamic loading through Morison's equation. The modelling of the fixed platforms as a 3D structural models, using beam elements will be taught. The response of the structure will be checked using codified rules in order to check the compliance of the structure. First principle design and analysis of beams, beam column, unstiffened and stiffened plates will be taught. Finally, the analysis and design of stiffened shells, which form a major structural component of many offshore structures such as Jacket platforms, compliant towers will be outlined, including structural reliability analysis of their shell structures.

## WHO SHOULD ATTEND

Engineers and scientists involved in the design of offshore structures. Personnel from oil companies, classification societies and offshore structure builders will benefit from attending this course. The course is innovative in both content & structure with a careful balance of theory & practice.

## COST

The registration fee of the workshop will be £650 + VAT (UK only) which includes course notes and lunches. You should make your own arrangements for accommodation.

## PAYMENT

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

## CONTACT

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# Advanced Analysis and Design of Offshore Structures



## PROGRAMME

### Day 1

08.30-09.00	Delegate Registration
09.00-10.30	Lecture 1: Overview of advances in offshore structure design.
10.30-11.00	<i>Break</i>
11.00-12.30	Lecture 2: Structural modelling of fixed platforms – I.
12.30-13.30	Lunch
13.30-15.00	Lecture 3: Structural modelling of fixed platforms – II.
15.00 – 15.30	<i>Break</i>
15.30-17.00	Lecture 4: Design of Columns and beam columns.

### Day 2

09.00 – 10.30	Lecture 5: Analysis and design of stiffened plate – I.
10.30 – 11.00	<i>Break</i>
11.00-12.30	Lecture 6: Analysis and design of stiffened plate – II.
12.30-13.30	Lunch
13.30 - 15.00	Lecture 7: Analysis and design of stiffened shells.
15.00 - 15.30	<i>Break</i>
15:30 - 17:00	Lecture 8: Tutorials on stiffened plates and stiffened shells