



DIGITAL SOLUTIONS

SUB-MODELLING ANALYSIS COMBINED WITH PLATE/SHELL FATIGUE ANALYSIS

Course code: SE-22

Duration: 2 days

Prerequisite:

SE-01. The participants should also have knowledge of the principles of stochastic (spectral) fatigue analysis.

DESCRIPTION

The course introduces the sub-modelling technique which allows a refined analysis of a detail of the whole structure. Displacements extracted from an analysis of the whole structure are subjected to the sub-model boundaries together with local loads on the sub-model. Such local sub-model loads may be hydrodynamic loads. A sub-model analysis facilitates stochastic (spectral) fatigue analysis of a plate/shell detail.

LEARNING OBJECTIVES

Learn how to create sub-models in GeniE and use Submod to perform a sub-modelling analysis. Also learn to use Stofat for stochastic fatigue analysis of plate/shell type structures.

TARGET GROUP

Structural engineers involved in detailed design of fixed and floating offshore structures built up by plate/shells and with attention to fatigue problems.