DIGITAL SOLUTIONS

SEMI-SUBMERSIBLE ANALYSIS

Course code: SE-13
Duration: 4 days

Prerequisite:
It is required that the participants have attended SE-01 Concept based FE modelling and analysis using Sesam - Introductory, and are familiar with hydrodynamic analysis.

DESCRIPTION

This course focuses on design analysis of semi-submersibles. Modelling the structure for FE analysis and the panel model for hydrodynamic analysis is done in GeniE. The hydrodynamic environment modelling is done in HydroD and the hydrodynamic analysis in Wadam. Hydrodynamic loads are transferred to the FE model for structural analysis in Sestra.

Hydrodynamic and structural results are presented in Xtract. Code checking of beams and plates is performed in GeniE. Sub-modelling using Submod, and fatigue analysis of plates/shells using Stofat, are also briefly discussed.

LEARNING OBJECTIVES

You will learn to perform all basic steps of structural and hydrodynamic analysis of a semi-submersible and similar floating structures.

TARGET GROUP

Hydrodynamic and structural engineers working with design of offshore floaters.