

**March 25 and 29, 2021 – 3:00pm-6:00pm**

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# **Modeling of Offshore Structures**

In the course, elements for modelling offshore structures will be given. The course is divided into three parts. First, an introduction about structural modelling in offshore environment is discussed in particular how to model simple structures and wave loads. Second, structural dynamics is reviewed and structural modelling with deterministic and statistical loads is considered as well as for linear and nonlinear problems. Third, finite element models and numerical MATLAB codes are discussed for modelling offshore structures. Numerical applications are discussed by taking into account design practices and regulations.