

MIKE 21 ST FM

Sand transport modelling using flexible mesh

This two-day, hands-on course will teach you the fundamentals of sand transport modelling for both pure currents and a combined waves and current regime. You will learn how to set up a sand transport model and simulate the sand transport and morphological changes using a coupled setup with flow and wave models. We shall also discuss when to apply a 3D approach

The sand transport module in MIKE 21 Flow Model HD FM calculates the sediment transport capacity, the initial rates of bed level changes and the morphological changes for noncohesive sediment (sand) due to currents or combined currents/waves.

Typical applications include the ability to predict sediment transport and resulting morphological changes along coasts and in estuaries. This will support the investigation and optimisation of coastal and estuarine infrastructure projects.

COURSE TOPICS

- · Fundamentals of sand transport modelling
- · Application of MIKE 21 ST FM
- · Setting up wave and flow conditions
- · Specifying sand properties
- · Generating sand transport tables
- · Calculating sediment transport
- · Decoupling, dynamic coupling and morphological changes
- · Factors for when to apply a 3D approach
- Overview of MIKE 21 Flow Model HD module and MIKE 21 spectral wave module
- Using the utility software of MIKE 21/3 Flow Models
- · Hands-on exercises

TARGET GROUP AND PREREQUISITES

Professionals in hydraulic or engineering and management working with impact assessment in coastal, estuarine and coastal areas.

It is required that participants have a basic knowledge of the flexible mesh modelling complex either through experience or through following the course 'MIKE 21 Flow Model HD FM - 2D hydrodynamic modelling using flexible mesh' prior to the course.

THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training - face-2-face as well as online.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses

LEARN MORE AND CONTACT US



courses@dhigroup.com www.theacademybydhi.com

