



## MIKE 21 CURVILINEAR

### 2D morphological modelling

This five-day, hands-on course will teach you the theoretical and practical aspects of cohesive and non-cohesive sediment transport modelling in rivers and reservoirs. We can adapt the course to your individual requests.

MIKE 21 Curvilinear (MIKE 21C) consists of a curvilinear hydrodynamics module (CHD) and a sediment transport model (CST). A curvilinear grid generator is also available for preparation of the curvilinear grids for the simulations.

MIKE 21C is one of the best established tools for simulating the development of the riverbed and channel plan form. Simulated processes include helical flow, sediment transport with inclusion of helical flow and bed slope for the bed-load and helical flow and adaptation for the suspended load via an advection-dispersion equation, as well as morphological updating including substrate. A separate module handles bank erosion with the possible inclusion of grid updating to account for bank line changes.

#### COURSE TOPICS

- Grid generation
- Hydrodynamics
- Helical flow
- Non-cohesive and cohesive sediment transport
- Morphological calculations
- Substrate modelling
- Alluvial resistance and bed forms
- Calibration of sediment models
- Modelling graded sediments
- Hands-on exercises

#### TARGET GROUP AND PREREQUISITES

Professionals who wish to enhance their skills to include cohesive and non-cohesive sediment transport modelling of rivers and reservoirs. Participants are expected to have experience in 2D modelling either through experience or through participation in the MIKE 21 courses 'MIKE 21 Flow Model HD - 2D hydrodynamic modelling using 'classic' grid' or 'MIKE 21 Flow Model HD FM - 2D hydrodynamic modelling using flexible mesh'.

#### 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



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