



MIKE 3 FLOW MODEL HD FM

3D hydrodynamic modelling using flexible mesh

This two-day, hands-on course will teach you the fundamentals of 3D hydrodynamic modelling (HD) and give you an introduction on how to set up a hydrodynamic model using the MIKE 3 Flow Model HD FM model using flexible mesh bathymetry.

The hydrodynamic module of MIKE 3 Flow Model HD FM provides the basis for computations of processes performed in many other modules such as sediment and mud transport, transport of heat and suspended matter, oil spill, agent based modelling and ecology but can also be used as a stand-alone application. The module simulates unsteady flow taking into account density variations, bathymetry and external forcing.

Typical application areas of MIKE 3 Flow Model HD FM are assessment of hydrographical conditions in stratified and nonstratified waters, oceanographic circulation studies and lake and reservoir hydrodynamics.

COURSE TOPICS

- Selection of geographical coordinate system, bathymetry digitisation and vertical grid resolution (mesh)
- Data organisation, import, editing and quality control
- Fundamentals of 3D flow modelling
- Setting up simple hydrodynamic models
- Managing boundary conditions
- Calibration and validation procedures
- Using the utility software of MIKE 21/3 Flow Models
- Analyses of model input and output
- Interpretation of results and visualisation, including video animation
- Hands-on exercises

TARGET GROUP AND PREREQUISITES

Professionals in hydraulic engineering and management working with inland flooding, lakes, coastal areas or marine environment.

Experience with hydraulic modelling and the flexible mesh modelling complex is highly recommended either through experience or through following the course 'MIKE 21 Flow Model HD FM - 2D hydrodynamic modelling using flexible mesh' prior to the course.

DATE AND TIME

21-22 May 2019. The course days are from 9 am to 5 pm

LOCATION AND VENUE

Vision Exchange, 2 Venture Drive, Singapore 608526

FEES AND DISCOUNTS

Standard price: SGD 1,143 + GST

Discounts:

- 10% with valid Service Maintenance Agreement on MIKE Powered by DHI product; or
- 25% for 3rd and subsequent participants from same organisation

THIS IS INCLUDED

- Training material
- Lunch and refreshments
- Training Certificate
- Laptop rental

LANGUAGE

Lectures and training material are in English.

REGISTRATION AND CONTACT

Deadline for registration is 3 weeks before course start. A minimum of trainees is required for the course to proceed. DHI reserves the right to reschedule the training course up to 3 weeks prior to the course date scheduled.

Client Success

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RELATED COURSES

- MIKE 21 Flow Model HD - 2D hydrodynamic modelling using 'classic' grid
- MIKE 21 Flow Model HD FM - 2D hydrodynamic modelling using flexible mesh
- MODELLING LONG-TERM SHORELINE EVOLUTION IN COMPLEX COASTAL PROJECTS - Using MIKE 21 FM Shoreline Morphology (SM)
- MIKE 21/3 OS FM Oil spill modelling using flexible mesh
- MIKE 21 AND MIKE 3 TR FM, MT FM, PT FM - Fine sediment modelling using flexible mesh
- MIKE 3 Flow Model HD - 3D hydrodynamic Modelling using 'classic' grid
- MIKE 21/3 ECO Lab - 2D and 3D water quality and ecological modelling
- OIL SPILL ANALYSIS: MODELLING APPROACH - How to model the fate and transport of oil in water environments



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INSTRUCTOR

WU YUSHI

Wu Yushi has a strong educational and research background in coastal engineering with focus in sediment transport, hydrodynamics and other coastal processes. He is experienced in conducting numerical simulations using DHI software MIKE 21 and MIKE 3 to provide solutions to a wide range of coastal problems.



Wu Yushi is also a project manager in DHI. He is actively involved in managing various projects including feasibility and Environmental Impact Assessment studies.

PhD, Sediment Transport, Nanyang Technological University,

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 about THE ACADEMY on www.theacademybydhi.com

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