



MIKE 21/3 ECO Lab

2D and 3D water quality and ecological modelling

This two-day, hands-on course will teach you the fundamentals of ecological modelling and give you an introduction on how to develop an ecological, process oriented model using either MIKE 21 or MIKE 3 ECO Lab (classic or FM series). Depending on the level of your experience and specific wishes topics can be added or tailored course offered.

Ecological modelling is used to describe and simulated various process and phenomena of ecosystems. It is usually applied to model water quality aspects, the fate of dissolved substances or biological relations on population or individual level.

MIKE ECO Lab is a numerical modelling tool for ecological modelling integrated in both MIKE 21 and MIKE 3, which gives easy access to the equations of an ecological model. MIKE 21 ECO Lab is used for 2D simulations of shallow lakes or coastal areas with insignificant stratification whereas MIKE 3 ECO Lab 3D is applied to stratified systems in either marine areas or in deep, stratified lakes.

COURSE TOPICS

- Fundamentals of ecological modelling
- Introduction to MIKE ECO Lab and dialogue overview
- Introduction to existing MIKE ECO Lab templates
- Guidelines for ecological model development
- How to set up the MIKE ECO Lab model
- Calibration and validation procedures
- Trouble-shooting advice
- Hands-on exercises
 - to construct your own basic ecological model descriptions
 - to set up and run MIKE 21/3 ECO Lab simulations (classic or FM series)

TARGET GROUP AND PREREQUISITES

Professionals in environmental engineering and management in the public or private sector working with shallow inland lakes or coastal areas.

You should have a background in applied water quality aspects and/or biology. Experience with hydraulic modelling is an advantage but no condition.

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.

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