



## FLOOD MODELLING WITH FLEXIBLE MESH (FM)

Take your flood modelling a step further

This two-day, hands-on course aims to teach you how to improve your flood modelling projects by using flexible meshes. The emphasis is on the added value of using flexible meshes compared to rectangular grids. However, advanced features of MIKE 21 FM and MIKE FLOOD for riverine and urban floods are also included. Time is dedicated to address your issues from your own experience.

Flooding often occurs as a result of high rainfall intensity in the catchment area, insufficient storm drainage capacity, river overflows, dam/dike breach, storm surge or as a combination of these phenomena. The risks of flooding are amplified by the expected effects of climate change.

MIKE FLOOD is a comprehensive modelling package covering all major aspects of flood modelling and is a tool for understanding flooding, analysing scenarios and testing mitigation measures. MIKE FLOOD integrates flood plains, streets, rivers, and littoral and sewer/storm water systems into one package.

### COURSE TOPICS

- Flexible mesh generation
- Optimising a mesh to reduce simulation times
- Parallel computing for improved performances
- Controlling banks and dike descriptions
- Specific 1D-2D coupling features with MIKE 21 FM
- Stability issues
- Tips and troubleshooting with model coupling
- Analysing results and volume balance for a coupled simulation
- Post-processing tools for flood applications
- Open discussions
- Hands-on exercises

### TARGET GROUP AND PREREQUISITES

Professionals involved in flood management, flood risk assessment or other flood related studies. Participants must be acquainted with the functionalities of MIKE FLOOD either through experience or through participation in the courses 'MIKE FLOOD - Integrated 1D and 2D river flood modelling' and/or 'MIKE FLOOD - Integrated 1D and 2D urban flood modelling'.

### 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 tailored.

**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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