



MIKE BY DHI COURSE DESCRIPTION

URBAN FLOOD MODELLING WITH MIKE FLOOD

Integrated 1D (MIKE URBAN) and 2D (MIKE 21) urban flood modelling

This three-day, hands-on course aims to teach you urban flood modelling by integrating the 1D urban drainage model (MU CS) and 2D overland flow model (MIKE 21) components to simulate the fully integrated flow dynamics between sewage/storm water systems and surface areas. Included in the course are introductions to the capabilities and potentialities of the Flood model components as well as hands-on exercises to become familiar with the User Interface of MIKE URBAN and MIKE FLOOD model components.

Urban flooding often occurs as a result of insufficient storm drainage capacity, river overflows, 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 the major aspects of flood modelling and a tool for understanding urban flooding, analysing scenarios and testing mitigation measures. MIKE FLOOD integrates flood plains, streets, rivers, coastal areas and sewer/storm water systems into one package.

COURSE TOPICS

- Introduction to 2D overland flow modelling with MIKE 21
- Building urban bathymetries
- Preparing MIKE URBAN models for coupling with MIKE 21
- MIKE FLOOD graphical editor
- Coupling of 1D and 2D models with MIKE Zero
- Coupling 1D and 2D models with MIKE URBAN 2D Overland Flow
- 1D-2D linkage options; stability issues
- Tips and troubleshooting with model coupling
- Results viewing and presentation
- Hands-on exercises

TARGET GROUP AND PREREQUISITES

Professionals involved in urban drainage, flood management, flood risk assessment or other flood related studies who wish to obtain knowledge of the theoretical and practical aspects of combined 1D and 2D flood modelling.

DATE AND TIME

Wednesday 20 March - Friday 22 March 2013

Course starts at 09:00 and finishes at 16:30

FEES AND DISCOUNTS

Standard price: € 450

Discounts:

- 10% with valid Service Maintenance Agreement on MIKE by DHI product
- 33% for 3rd and subsequent participants
- 50% for students

THIS IS INCLUDED

- Training material
- Latest MIKE by DHI demo version
- Coffee break
- Training Certificate

LANGUAGE

Lectures and training material are in English

LOCATION AND VENUE

HF Fénix Urban

Av. António Augusto de Aguiar, 14

1050 - 016 LISBOA

REGISTRATION AND FURTHER INFORMATION

Deadline for registration is 28 February 2013. 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.

Contact: Cecilia Maria Rodrigues Correia
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RELATED COURSES

- 'MIKE URBAN CS - Introduction to modelling of collection systems'
- 'MIKE 21 - Hydrodynamic modelling using "classic" grid'
- 'MIKE FLOOD (3-way) - Integrated pipes, channels and surface modelling'
- 'URBAN RADAR TOOL - Introduction to the application of radar data in MIKE URBAN'
- 'URBAN FLOODING ANALYSIS & MANAGEMENT - Preparing for flooding & the impact of climate change on your City'

COURSE INSTRUCTOR

Catherine Dagan

Catherine Dagan is a senior urban hydraulics engineer at DHI . She is responsible for the technical support in collection system and water distribution modelling as well as the urban flood modelling. Catherine Dagan has extensive experience teaching urban water modelling related courses and years of experience in sewer modelling projects in France.



MSc, Urban Water Management from the University of Béthune, France

THE ACADEMY BY DHI

The Academy offers a palette of courses and capacity building packages designed to fit your needs and challenges. Our training courses are offered as standard and/or as tailored training.

MIKE by DHI courses focus on practical skills, hands-on exercises and on teaching you how to get the most out of your software.

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

MIKE Customised courses enable you to understand the power of the MIKE Customised tools for building decision support systems.

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

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