MIKE FLOOD

Integrated pipes, channels and surface modelling

This three-day, hands-on course aims to teach you the integration of the 1D urban drainage model (MU CS), 1D river model (MIKE HYDRO River) and the 2D overland model (MIKE 21) into one comprehensive dynamically coupled model. The emphasis is on establishing a 2D overland flow model followed by coupling of the 1D and 2D components to simulate the fully integrated flow dynamics between sewage/storm water systems, open channels and surface areas.

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

- Introduction to 2D overland flow modelling with MIKE 21
- Building urban bathymetries
- Preparing MIKE URBAN models for coupling
- Preparing MIKE HYDRO River models for coupling
- MIKE FLOOD graphical editor
- Coupling 1D and 2D models (3 ways)
- 1D-2D and 1D-1D linkage options; stability issues
- Tips and troubleshooting with model coupling
- Results viewing and presentation
- 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 basic functionalities of MIKE HYDRO River and MIKE URBAN COLLECTION SYSTEMS (MU CS) prior to the course either through experience or through participation in the MIKE HYDRO River course 'Introduction to river and channel modelling' and the MU CS course 'Introduction to the modelling of collection systems'.

DATE AND TIME

20 to 23 March 2019. The course days are from 9 am to 5 pm.

LOCATION AND VENUE

Manila (address to be announced).

FEES AND DISCOUNTS

Standard price: USD 550 (excl. taxes or levies).

Discounts:

- 10% with valid Service Maintenance Agreement on MIKE Powered by DHI product; or
- 20% for students; or
- 25% for 3rd and subsequent participants from same organisation

THIS IS INCLUDED

- Training material
- Training Certificate

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 HYDRO River - Introduction to river and channel modelling
- MIKE URBAN COLLECTION SYSTEMS - Introduction to the modelling of collection systems
- MIKE 21 FLOW MODEL HD - 2D hydrodynamic modelling using 'classic' grid
- MIKE FLOOD - 1D and 2D urban flood modelling
- MIKE FLOOD - 1D and 2D river flood modelling
- FLOOD MODELLING WITH FLEXIBLE MESH (FM) - Take your flood modelling a step further
- FLOOD RISK MANAGEMENT - How to prepare for and manage floods
- SCREENING OF URBAN FLOOD RISK - Cost-effective mapping of urban flood risk
- MODELLING OF STORM WATER FOR GREEN CITIES- Methods and structures

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www.theacademybydhi.com/courses-and-events-calendar

INSTRUCTOR

FRITZI GIRONELLA

Ms. Fritzi Gironella is trained as a researcher in water sciences and engineering, having worked in research groups for about two years and have written her theses related to hydrology. Professionally experienced in hydroinformatics (numerical water modelling) especially in hydrodynamics. She is currently working in DHI for two years focusing on flooding studies and backwater analyses, as well as data pre-processing for inland water modelling. Fritzi is proficient in MIKE modelling softwares: MIKE 11 (one-dimensional river modelling), MIKE 21 (two-dimensional flood modelling), MIKE FLOOD (coupled one and two-dimensional flood modelling).

Master of Science in Hydroinformatics and Water Management, Civil and Environmental Engineering, EuroAquae

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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