



MODELLING OF STORM WATER FOR GREEN CITIES

Methods and structures

This two-day course gives you an introduction to different approaches to the modelling of various types of green infrastructure in MIKE URBAN and their effect on different types of storm events. In addition, you are also introduced to storm water quality and modelling thereof as well as storm water quality treatment options. The course encompasses all types of the green infrastructure practices on the local level thus including bio-retention cells, rain gardens, green roofs, infiltration trenches, permeable pavements, rain barrels and vegetative swales.

In recent years we have experienced increased focus on making cities water sustainable. Today many cities strive towards integrating the entire urban water cycle into the urban planning. In this way, environmental degradation is minimised and the aesthetic and recreational appeal of the cities improved. Concurrently, cities also need to adapt to a changing climate.

Cities and water utilities need to be able to quantify and document the effects of introducing green infrastructure, for instance in relation to climate change adaptation options, the improvement of water quality in recipients and rainwater harvesting in cities with water shortage.

COURSE TOPICS

- Modelling of green solutions at screening level
- Modelling the different elements of a green infrastructure at a detailed hydraulic level
- On-going developments in urban storm water modelling with MIKE URBAN
- How to couple the green solutions with an existing drainage network
- Storm water quality and the modelling thereof
- Applying treatment water quality measures to various types of green infrastructure
- Result viewing and analysis
- Hands-on exercises

TARGET GROUP AND PREREQUISITES

Professionals who are experienced MIKE URBAN users and who are working with storm water projects or planning to do so.

Participants must be acquainted with the basic functionalities of MIKE URBAN COLLECTION SYSTEMS (MU CS) prior to the course either through experience or through participation in the MU CS course 'Introduction to modelling of collection systems'.

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.

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