INTEGRATED URBAN WATER SYSTEMS (IUWS)

Integrated modelling of water quality in urban areas

This two-day thematic course provides the theoretical basis for the modelling of integrated urban water systems. It includes some interesting case studies of practical applications and hands-on exercises based on the WEST software package.

Both policy makers and the industry are increasingly realising the necessity of adopting an integrated approach to water management. Urban water management presents big challenges, but also great opportunities to minimise both the impact on the receiving water (and on the environment in general, e.g. energy and materials consumption, pollutants emission) and on costs. Options such as water quality based real-time control, sewer operation minimising odour and corrosion problems, global sewer control, construction of retention volumes and treatment facilities, water reuse, nutrient recovery, etc. can be better designed and evaluated by using models that include the interaction between all units involved. Optimising individual subsystems may not be the best solution for the entire system. The integrated assessment of the system provides the opportunity to develop holistic solutions and/or justification for prioritising implementation plans in a manner that will yield the best value and greatest benefits for the receiving water.

COURSE TOPICS

- Hydraulic model simplification
- Water quality model interfaces
- What to request and expect from a model
- Examples from planning cases
  - Conceptual model development
  - Integrated models
  - Decision support, scenarios and indicators

TARGET GROUP AND PREREQUISITES

Urban water resource professionals such as water managers, wastewater collection system and treatment managers, etc.

Comprehensive experience with modelling principles and modelling tools is a prerequisite.

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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