MIKE HYDRO BASIN

Introduction to river basin modelling

This two-day, hands-on course gives you an overview of the capabilities of MIKE HYDRO Basin with the target of enabling you to create models for water allocation and reservoir operation projects. You learn about basic model design. Depending on the level of experience and specific wishes from the participants a number of topics can be optionally addressed (see below).

River basin planning and management can be seen as an attempt to identify the best possible utilisation of available water resources, taking into account environmental, economic and social constraints and opportunities. Analysing the present and planning for future water resources development within a basin requires an integrated analysis of numerous aspects.

MIKE HYDRO Basin is a multi-purpose, map-centric decision support tool for integrated river basin analysis, planning and management. MIKE HYDRO Basin is designed for analysing water sharing issues at international, national and local river basin level. A simplified mathematical representation of the river basin is defined including the configuration of river and reservoir systems, catchment hydrology and existing and potential water user schemes with their various demands including a rigorous irrigation scheme module.

COURSE TOPICS

- Introduction to the MIKE HYDRO Basin modelling framework
- Introduction to model design
- Operational framework and water user allocation rules
- Reservoir operating rules and hydropower modelling
- Result presentation and analysis
- Groundwater and river routing modelling (optional)
- Detailed irrigation demand and management analysis (optional)
- Hydrological modelling (optional)
- Hands-on exercises

TARGET GROUP AND PREREQUISITES

Professionals in water resources planning and management in public and private sectors, who wish to obtain a general understanding of MIKE HYDRO Basin and its capabilities in developing powerful and efficient water resources models with MIKE HYDRO Basin.

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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.

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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