



INTEGRATED CATCHMENT MANAGEMENT

Hydrology, management and decision making in a catchment with competing uses

In this three-day, thematic course we aim to enable you to address suitable holistic integrated catchment management. The course focusses on the challenges of surface water and groundwater resources management at catchment scale, as well as managing competing uses and environmental impacts. Catchment hydrology and its implications on water management is discussed. Decision support tools and modelling tools are introduced through examples and project cases. Hands-on exercises are not included.

Water resources are under increasing stress from growing populations, intensification of agriculture, and climate change.

Catchment management is vital to water use permitting, setting allocation limits, defining permissible loads and environmental impacts, and making water sharing strategies. To achieve holistic integrated catchment management, water managers and planners must address groundwater and surface water interaction as well as the impact of land use and climate change on water resources.

COURSE TOPICS

- Specific water management targets and criteria
- Water use, conflicts and resources
- Understanding the catchment
- Assessment and modelling tools
- What to request and expect from a model
- From data and models to decision variables
- From planning to on-line
- Examples from planning and on-line project cases
 - conceptual model development
 - integrated models
 - decision support, scenarios and indicators

TARGET GROUP AND PREREQUISITES

Water resource professionals including water managers, water resource engineers, hydrologists, hydro-geologists and water resource modellers. It is preferable, but no condition, that participants have previous experience with water management, hydrology and models.

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.

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