



Proposed Agenda: Hydrological Modeling Training (MIKE+ Rivers Training)

Day 1: Introduction to MIKE+ and 1D Hydrodynamic River Modelling

- Introduction to MIKE+ and MIKE+ Rivers
- Theoretical background to 1-D hydrodynamic river modelling
- Data requirements for 1-D river modeling
- Introduction to MIKE+ GUI, the Tools and the Results
- Introduction to MIKE+ Model Manager Database Project
- Introducing the hands-on exercise
- Hands-on exercises (cont.)
- Q/A Follow-up and on content and exercises

Day 2: 1D Hydrodynamic Modelling, Calibration, and River Module Setup

- Rainfall Runoff modelling capabilities
- Hands-on exercise (Rainfall Runoff modelling)
- Stability of 1-D river model, incl. Hands-on exercise
- Model Calibration and Verification, incl. Hands-on exercise
- Introduction to modelling of basic hydraulic structures
- Hands-on exercise (basic hydraulic structures)
- Tips & Tricks on 1-D Hydrodynamic Modelling
- Creating a new MIKE+ River project and Importing river using SHP file
- River editing and creating cross sections (including cross-section extension based on DEM)

Day 3: Advanced River Features and Integrated Modelling

- Setting River model boundary conditions (Upstream flow, Downstream water level)
- Hydrology for River model (Catchment import, parameterization, Rainfall, Evapo-transpiration)
- Running and configuring River simulation
- Checking River model results (TS Plots, Long Profiles, Cross Sections Analysis)
- Integration of River model with Collection System (River Junctions)
- ☐ Coupling River model with Flexible Mesh (1D-2D coupling) (Setup and configuration)
- Advanced Structures, Applications, and More than river modelling
- Course completion and evaluation.