



MANAGEMENT, MONITORING AND MODELLING OF ESTUARIES

Introduction to estuarine dynamics, data and survey methods

The purpose of this one-day, thematic hands-on course is to give project engineers, managers and planners of projects located in estuarine environments an introduction to estuarine dynamics, wind generated waves, stratified flow, transport of fine cohesive sediments. Participants will also learn about the interaction between sediment transport, morphological evolution, flora, fauna and water quality.

This includes a discussion of improved survey and monitoring techniques for estuarine environments that are important to integrate into engineers' and managers' activities along with state-of-the-art numerical modelling tools.

Sedimentation problems in estuarine harbours are among the challenges that engineers and managers face today. Other issues necessary to deal with are impact assessments of major structures in an estuarine environment, design of artificial lagoons with good water quality and the stability of inlets to estuaries and lagoons on littoral drift coasts.

COURSE TOPICS

- Estuarine dynamics
- Hydrodynamics
- Sediment transport
- Inlet stability
- Harbour sedimentation
- Numerical modelling
- Data requirements for setting up and calibrating the models
- Relevant parameters for estuarine studies
- Survey and monitoring

TARGET GROUP AND PREREQUISITES

Professionals in the fields of estuarine environments and projects such as biologists, project engineers, managers and planners, project engineers, managers and planners of estuarine projects.

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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