

# COURSES & EVENTS CALENDAR 2019

## INDIA

**SURFACE & GROUNDWATER, FLOODING, COAST & MARINE,  
ENVIRONMENT & ECOSYSTEMS**

**BUILDING EXPERTISE**





## COURSES & EVENTS CALENDAR 2019

	FOCUS AREA	TITLE	DATES	LOCATION
SURFACE & GROUNDWATER	MIKE HYDRO RIVER	Introduction to river and channel modelling	30, 31 January and 1st February 12-14 June	New Delhi Kolkata
	MIKE SHE	Integrated catchment modelling	08-10 May	New Delhi
	MIKE 21C	2D morphological modelling	11-13 September	Guwahati
	MIKE HYDRO BASIN	Introduction to river basin modelling	27-29 Sept	New Delhi
	FEFLOW	Introduction to groundwater modelling	18-20 December	New Delhi
URBAN	MIKE URBAN	Introduction to the modelling of water distribution systems	03-05 July	Mumbai
FLOOD-ING	MIKE FLOOD	Integrated 1D and 2D river flood modelling	13-15 March 7-9 August	New Delhi New Delhi
	COAST & MARINE	MIKE 21 SW/BW	Introduction to spectral wave and Boussinesq wave modelling	15-17 April
MIKE 21 FLOW MODEL HD FM		2D hydrodynamic modelling using flexible mesh	23-25 October	Kerala

### WHAT DID OUR CLIENTS SAY?

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## COURSE FASHES

SURFACE & GROUNDWATER	<b>MIKE HYDRO RIVER</b> Introduction to river and channel modelling	This three-day course gives you an introduction to the capabilities of the MIKE HYDRO River modelling system in order to enable you to set up and run basic river models with MIKE HYDRO River.	<ul style="list-style-type: none"> <li>• MIKE HYDRO River and modular structure</li> <li>• MIKE HYDRO River graphical user interface (GUI)</li> <li>• Schematisation and application of simple river models</li> <li>• Modelling basic hydraulic structures</li> </ul>
	<b>MIKE SHE</b> Integrated catchment modelling	In this three-day course you learn about the physical and modelling aspects of all the processes in the hydrological cycle and fully coupled and fully integrated surface water and groundwater modelling.	<ul style="list-style-type: none"> <li>• Climate, Vegetation and Actual ET</li> <li>• Channel flow and surface water</li> <li>• Subsurface un-/saturated groundwater flow</li> <li>• Integrated water quality</li> <li>• Calibration and water balance</li> </ul>
	<b>MIKE 21 CURVILINEAR</b> 2D morphological modelling	This three-day course teaches you the theoretical and practical aspects of cohesive and non-cohesive sediment transport modelling in rivers and reservoirs. We can adapt the course to your individual requests.	<ul style="list-style-type: none"> <li>• Grid generation</li> <li>• Hydrodynamics including helical flow</li> <li>• Non-cohesive and cohesive sediment transport</li> <li>• Morphological calculations</li> <li>• Modelling graded sediments</li> </ul>
	<b>MIKE HYDRO BASIN</b> Introduction to river basin modelling	This three-day course gives you an overview of how to use MIKE HYDRO Basin to support river basin management and reservoir operations. The course can be adapted to focus on different aspects of river basin management including hydropower, surface water groundwater interaction, irrigation, and water quality.	<ul style="list-style-type: none"> <li>• Introduction to river basin modelling</li> <li>• Water allocation rules</li> <li>• Reservoir and hydropower modelling</li> <li>• Optional modules including irrigation, rainfall-runoff processes, river routing, surface water-groundwater interaction, and water quality processes</li> </ul>
	<b>FEFLOW</b> Introduction to groundwater modelling	This three-day course provides you with an introduction to groundwater modelling using FEFLOW. You learn about the basic concepts of the software through building flow and transport models (2D/3D)	<ul style="list-style-type: none"> <li>• FEFLOW and its graphical user interface</li> <li>• Creating structure and unstructured mesh geometries (2D/3D)</li> <li>• Setting up flow models (confined/unconfined aquifers), mass-transport models and groundwater age models</li> <li>• Steady-state and transient models</li> <li>• Usage of GIS-/CAD, geological models, etc.</li> </ul>
URBAN WATER	<b>MIKE URBAN WATER DISTRIBUTION</b> Introduction to the modelling of water distribution systems	This three-day course gives you an introduction to data management and numerical modelling (EPANET) of water distribution systems in order to enable you to set up and run simple MU WD models.	<ul style="list-style-type: none"> <li>• Project setup, including units, coordinate system, etc</li> <li>• Data organisation, import/export of external data</li> <li>• Numerical and graphical editing and quality control</li> <li>• Simulation of hydraulics &amp; water quality</li> </ul>
FLOODING	<b>MIKE FLOOD</b> Integrated 1D and 2D river flood modelling	This three-day course teaches you river flood modelling by integrating the 1D river model (MIKE HYDRO River) and 2D overland flow model (MIKE 21). The aim is to establish a 2D overland flow model for river flood modelling.	<ul style="list-style-type: none"> <li>• Building a bathymetry</li> <li>• Coupling MIKE HYDRO River and MIKE 21</li> <li>• Fine scale structures in coarse grids</li> <li>• Floodplain modelling and mapping</li> </ul>
	<b>MIKE 21 FLOW MODEL HD FM</b> 2D hydrodynamic modelling using flexible mesh	This three-day course teaches you the fundamentals of 2D hydrodynamic modelling (HD) and gives you an introduction on how to set up a hydrodynamic model using the MIKE 21 Flow Model HD FM model using flexible mesh bathymetry.	<ul style="list-style-type: none"> <li>• Selection of geographical coordinate system and bathymetry digitisation (mesh)</li> <li>• Data import, editing and quality control</li> <li>• Setting up 2D hydrodynamic models</li> <li>• Managing boundary conditions</li> <li>• Calibration and validation</li> </ul>
COAST & MARINE	<b>MIKE 21 SW/BW</b> Introduction to spectral wave and Boussinesq wave modelling	This three-day course helps you predict and analyse wave climates in offshore and coastal areas and wave conditions in ports and behind structures where accurate assessment of wave impact is of utmost importance.	<ul style="list-style-type: none"> <li>• MIKE 21 BW and MIKE 21 SW setup planner</li> <li>• Bathymetry/mesh generator</li> <li>• Wave generation</li> <li>• Calibration techniques and model validation</li> </ul>



Every year thousands of water professionals all over the world attend THE ACADEMY by DHI courses and events. THE ACADEMY courses are available both as standard as well as tailored courses designed according to your specific requests and based upon your own data.

THE ACADEMY by DHI offers an umbrella of standard and tailored training courses of various duration and targeting different levels of water professionals, including managers/decision makers, mid-level professionals and technicians.

#### **MIKE Powered by DHI courses**

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**THE ACADEMY by DHI** offers a palette of training courses and capacity building packages in the field of water as well as in chemicals regulation and toxicology. Please consult our website for the complete listing as well as latest updates of our Courses & Events Calendar: [www.theacademybydhi.com](http://www.theacademybydhi.com)

#### **Location**

Our courses are scheduled in multiple cities in the different regions of India.

Should the public enrolment course of your interest not be on the list in our Course Schedule for 2018, please feel free to contact us so that we can arrange for future courses or do a one-to-one course at your office!

#### **Computers**

A number of courses require computers. All participants are asked to bring their own laptops.

#### **Language**

Our courses are held in English. All training material is provided in English.

#### **Standard course prices (per person )**

Please get in touch with our sales team for prices.

#### **Discounts for our public enrolment courses**

- 10 % if valid Service Maintenance Agreement (SMA)
- 10% Early Bird registration - 30 days before commencement of course
- 10 % for second and more participant from same organisation

#### **What is included?**

Course fees include training material, training certificates, lunch and refreshments.

#### **Registration**

Deadline for registration is one week before commencement of course. A minimum of participants is required for courses to proceed. DHI reserves the right to reschedule courses up to one week prior to the commencement of a course.

You can register through our website

<http://worldwide.dhigroup.com/in> or contact us at [anbi@dhigroup.com](mailto:anbi@dhigroup.com)

#### **Further information**

About additional software courses, thematic or tailored training please contact us at [mike.in@dhigroup.com](mailto:mike.in@dhigroup.com)

#### **DHI (India) Water & Environment Pvt. Ltd**

206, Ground Floor, Okhla Industrial Estate, Phase-III

New Delhi 110020, India

+91 11 4703 4533 Telephone

+91 11 4703 4501 Fax

[anbi@dhigroup.com](mailto:anbi@dhigroup.com)

<http://worldwide.dhigroup.com/in>