

# Course Schedule 2012

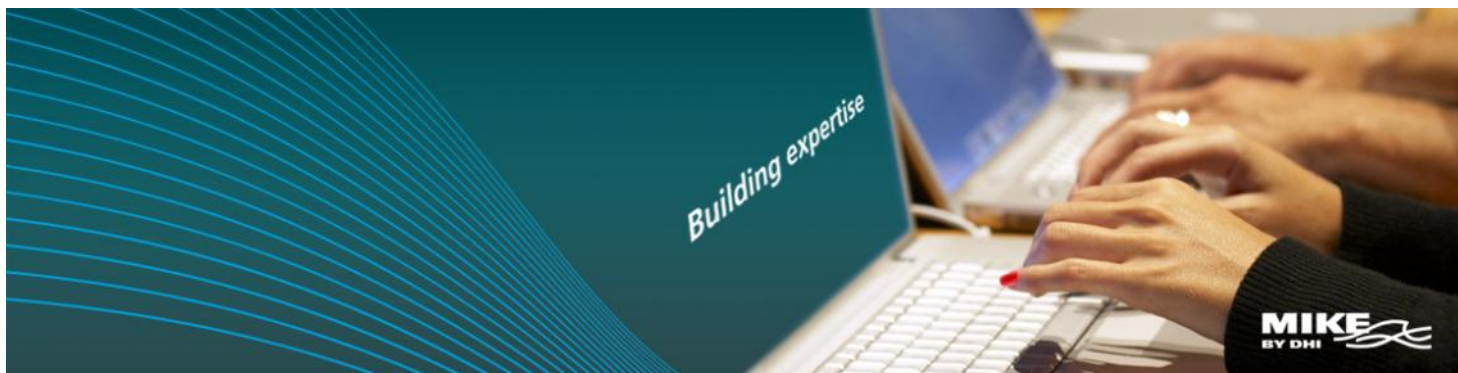
## Malaysia



We help build your expertise

Flooding  
Coast & sea  
Water resources

**MIKE**  
BY DHI 



## COURSE SCHEDULE 2012

### Malaysia

	Product	Title	Dates	Location
COAST & SEA	MIKE 21 HD	Hydrodynamic modelling using 'classic' grid	12 - 13 March	Kota Kinabalu or KL
	MIKE 21 SW	Spectral wave modelling	14 - 15 March	Kota Kinabalu or KL
	MIKE 21 BW	Wave disturbance modelling in ports	20 - 21 March	Kota Kinabalu or KL
	LITPACK	Modelling long shore sediment transport and coast-line evolution	22 - 23 March	Kota Kinabalu or KL
WATER RESOURCES	MIKE BASIN	Introduction to river basin modelling	10 - 11 July	Kota Kinabalu or KL
	MIKE 11	Introduction to river and channel modelling	12 - 13 July	Kota Kinabalu or KL
	MIKE 11 RR	Rainfall-Runoff modelling	16 - 17 July	Kota Kinabalu or KL
	MIKE 11 GIS	GIS based model development	18 July	Kota Kinabalu or KL
FLOODING	MIKE FLOOD (River)	Integrated 1D and 2D river flood modelling	Upon request	n/a
	MIKE FLOOD (Urban)	Integrated 1D and 2D urban flood modelling	Upon request	n/a



# COURSE DESCRIPTIONS

COAST & SEA	<p><b>MIKE 21 HD</b> Hydrodynamic modelling using 'classic' grid</p> <p>Dates 12 - 13 March</p>	<p>This two-day, hands-on course provides a practical introduction to the basics of flow modelling and how to get started with 2D models. The course aims at enabling you to set up and run flow simulations with MIKE 21 HD and MIKE 21 NHD 'classic' versions.</p>	<ul style="list-style-type: none"> <li>• Selection of geographical coordinate system and bathymetry digitization (grid)</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>
	<p><b>MIKE 21 SW</b> Spectral wave modelling</p> <p>Dates 14 - 15 March</p>	<p>This two-day, hands-on course provides a practical introduction to wave modelling using the MIKE 21 Spectral Wave model. The course will help you to predict and analyse wave climates in offshore and coastal areas.</p>	<ul style="list-style-type: none"> <li>• Application of MIKE 21 SW</li> <li>• How to set up models based on flexible mesh (unstructured grid)</li> <li>• Decision of spectral formulation</li> <li>• Calibration techniques and model validation</li> <li>• Interpretation of results</li> </ul>
	<p><b>MIKE 21 BW</b> Wave disturbance modelling in ports</p> <p>Dates 20 - 21 March</p>	<p>This two-day, hands-on course provides a practical introduction to wave disturbance modelling in ports and by structures using the MIKE 21 Boussinesq Wave model. The course will help you predict and analyse wave conditions in ports and behind structures where accurate assessment of wave impact is of utmost importance.</p>	<ul style="list-style-type: none"> <li>• Application of MIKE 21 BW</li> <li>• How to set up models based on rectilinear grid</li> <li>• Creating porosity and sponge layer maps</li> <li>• Calibration techniques and model validation</li> <li>• Interpretation of results</li> </ul>
	<p><b>LITPACK</b> Modelling longshore sediment transport and coastline evolution</p> <p>Dates 22 - 23 March</p>	<p>This two-day, hands-on course provides a practical introduction to the use of 1D modelling of longshore sediment transport and coastline evolution along quasi-uniform coastlines. The course aims at enabling the you to setup and run simulations using LITDRIFT and LITLINE as well as Littoral Processes FM.</p>	<ul style="list-style-type: none"> <li>• Basic assumptions in the 1D modelling setup</li> <li>• Concept of morphological baseline</li> <li>• Setting up LITDRIFT, LITLINE and Littoral Processes FM models</li> <li>• Interpretation of results and calibration</li> <li>• Result viewing and presentation</li> </ul>
WATER RESOURCES	<p><b>MIKE BASIN</b> Introduction to river basin modelling</p> <p>Dates 19 - 20 April</p>	<p>This two-day, hands-on MIKE BASIN overview course aims at familiarising you with the MIKE BASIN concept . It will illustrate how you will be able to operate the software efficiently and create models for water allocation and reservoir operation projects.</p>	<ul style="list-style-type: none"> <li>• Introduction to MIKE BASIN</li> <li>• Introduction to GIS and model design</li> <li>• Creating models for water allocation projects</li> <li>• Reservoir and hydropower modelling</li> <li>• Result presentation and analysis</li> </ul>
	<p><b>MIKE 11</b> Introduction to river and channel modelling</p> <p>Dates 01 - 02 March</p>	<p>This two-day, hands-on course gives an introduction to 1D river modelling with MIKE 11. The aim is to go through the basic features of MIKE 11 to enable you to set up and run simple river models and to evaluate their results.</p>	<ul style="list-style-type: none"> <li>• MIKE 11 modular structure</li> <li>• MIKE 11 graphical user interface (GUI)</li> <li>• Schematisation and application of simple river models</li> <li>• Modelling basic hydraulic structures</li> </ul>
	<p><b>MIKE 11 RR</b> Rainfall-Runoff modelling</p> <p>Dates 16 - 17 July</p>	<p>This two-day, hands-on gives an Overview of the theoretical and practical aspects of empirical and conceptual Rainfall Runoff modelling with MIKE 11. The aim is to enable you to apply the MIKE 11 Rainfall Runoff module either independently or for generating runoff inflows to a river network (HD model) within the same modelling frame.</p>	<ul style="list-style-type: none"> <li>• Principles of hydrological modelling</li> <li>• MIKE 11 Rainfall Runoff (RR) module</li> <li>• The NAM model</li> <li>• The UHM model</li> <li>• Model setup, calibration and validation</li> <li>• The irrigation module</li> <li>• Selection and combination of model types</li> <li>• Interfacing the hydrodynamic modelling network</li> </ul>
	<p><b>MIKE 11 GIS</b> GIS based model development</p> <p>Dates 18 July</p>	<p>A one-day, hands-on introduction course to the latest MIKE 11 GIS package (in ArcMap), which provides a range of efficient tools and features primarily for utilising GIS in the schematisation and preparation of MIKE 11 river model input files.</p>	<ul style="list-style-type: none"> <li>• Schematisation of river model features</li> <li>• Extraction of topographical data from DEM</li> <li>• Importing existing river model data</li> <li>• Exporting model input files</li> </ul>
FLOODING	<p><b>MIKE FLOOD (River)</b> Integrated 1D and 2D river flood modelling</p> <p>Upon request</p>	<p>In this two-day, hands-on course you will learn how to model integrated river and flood plain dynamics using MIKE FLOOD. Focus will be on defining efficient coupled 1D (MIKE 11) and 2D (MIKE 21) models with emphasis on data requirements, optimal model schematisation and model stability.</p>	<ul style="list-style-type: none"> <li>• Building a bathymetry</li> <li>• Coupling MIKE 11 and MIKE 21</li> <li>• Topographic data handling</li> <li>• Fine scale structures in coarse grids</li> <li>• Floodplain modelling and mapping</li> <li>• Results viewing and presentation</li> </ul>
	<p><b>MIKE FLOOD (Urban)</b> Integrated 1D and 2D urban flood modelling</p> <p>Upon request</p>	<p>In this two-day, hands-on course you will learn how to develop a 2D overland flow model by coupling of the 1D urban drainage model (MIKE URBAN) and 2D overland flow model (MIKE 21) to simulate the fully integrated flow dynamics between sewage/storm water systems and surface areas.</p>	<ul style="list-style-type: none"> <li>• Building urban bathymetries</li> <li>• Coupling MIKE URBAN CS and MIKE 21</li> <li>• Coupling 1D and 2D models with MIKE URBAN 2D Overland Flow feature</li> <li>• Using GIS for model preparation and results</li> </ul>



**DHI believes that the best way to ensure the success of our products is to ensure the success of our clients! One of the ways we do this is through our training courses.**

Our courses are held by our offices and technical support services worldwide. In your language and in your region!

**Our courses cover** the areas of water resources and coasts and seas. Should the training course of your interest not be on the list, please feel free to contact us so that we can arrange for future courses or do a one-to-one course at your office.

**Our short standard courses** are designed to introduce you to the application of our various products and modules. Relevant participants for these courses include both new and potential users as well as current users who need an update to our products in a guided way. Our short courses are modular and allow you to build your expertise so as to match the requirements of your job.

**Our tailored courses** within client organisations range from short, dedicated courses in selected topics to longer courses, in which you - with support from relevant DHI experts - are guided through practical applications using your own data.

**Courses can take place at your premises or at your closest DHI office.**

#### **Venue and location**

Our courses are held at DHI Malaysia Offices.

#### **Language**

In general our courses are held in English. All training material is provided in English.

#### **Our standard course prices (per pax per day)**

University: MYR 750.00

Private Sector: MYR 900.00

Course fees exclude training materials and Government Service Tax (6%). Training Certificate will be awarded after completion of the course.

#### **Discounts**

20 % if valid Service Maintenance Agreement (SMA).

#### **Registration**

A minimum of 6 attendees is required for courses to proceed.

#### **Deadline for registration**

Three weeks before commencement of course. DHI reserves the right to reschedule training courses up to three weeks prior to the scheduled dates.

Cancellation of registration by attendees less than 1 week prior to the course commencement date will incur a charge equivalent to 20% of the course fee. If the registered delegate is unable to attend, a substitute is permissible with written notice to [mikebydhi.my@dhigroup.com](mailto:mikebydhi.my@dhigroup.com) prior to the commencement of the training course.

## **Further information**

Consult our global Course Calendar - it always tells you when, where and which MIKE courses are offered worldwide:

[www.mikebydhi.com/training/globalcoursecalendar](http://www.mikebydhi.com/training/globalcoursecalendar)

Detailed course descriptions, course fees and registration forms please contact:

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