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Applied Groundwater Modelling

IHE Delft Institute for Water Education

Certificate / Diploma Short course Delft

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Course description

Qualification Certificate

Field of study Agriculture and environment

Course summary The short course is designed to provide participants with principles and procedures of groundwater modelling and the use of computer models for groundwater resources management and protection.

Course description The short course is designed to provide participants with principles and procedures of groundwater modelling and the use of computer models for groundwater resources management and protection. The experiences of modelling will be obtained through a series of hands-on training in computer workshops. On completion of this course the participants are able • to create a groundwater model following the procedures of building a groundwater model: definition of model objectives, construction of hydrogeological conceptual models, design of numerical models, preparation of model inputs, model calibration and model application. • to use the most popular groundwater model codes: MODFLOW, PMPATH, MT3D and a graphical user interface PMWIN. • to apply groundwater models for evaluation of groundwater development scenarios, determination of capture zone of well fields and prediction of pollutant plume development.

Study subjects Groundwater Flow Modeling; Contaminant Transport Modeling; Saline Groundwater Modeling; Use of MODFLOW, MODPATH and MT3D; Workshops on Groundwater Modeling.

Upon completion of this course, the student is: • familiar with the principles and procedures of groundwater modelling; • able to construct a groundwater model using state of the art



Course objectives	modelling software; • able to use the model for simulation of groundwater flow, contaminant transport and salt water intrusion; • able to apply groundwater modelling techniques for groundwater resources management
ECTS credits	5.00
Duration	3 week(s) full-time
Language of instruction	English
Instruction modes	lecture, tutorial, computer exercise, computer modeling, case study
Accreditation	-

About the institution

Department IHE Delft

Information about the institution IHE Delft Institute for Water Education is the largest international graduate water education facility in the world and the only institution in the UN system to confer accredited MSc degrees and promote PhDs. It offers degree programmes, short courses, online courses and tailor-made training. Since 1957 the Institute has provided graduate education to more than 15,000 water professionals from over 160 countries. More than 175 PhD candidates were promoted. IHE Delft is at the centre of a vast international network of water related institutions, and functions as an interface between knowledge networks and centres, public and private sector organizations, scientific and professional associations and other members of the international water community. The Institute runs a substantial number of joint MSc programmes implemented in partnership with universities around the globe. These joint programmes combine the strengths of the collaborating institutions and deliver either multiple degrees or a joint degree.

Admission

Admission requirements	<ol style="list-style-type: none"> 1. Several years of relevant working experience 2. Relevant wo bachelor (academic bachelor): BSc degree or equivalent qualification in a relevant field from a recognised university 						
Language requirements	IELTS overall band 6 TOEFL internet based 87 TOEFL paper based 999						
Professional experience required	-						
Duration	3 week(s) full-time						
Application deadlines	<table> <tr> <td>Start date</td> <td>EU/EEA Students</td> <td>Non-EU/EEA students</td> </tr> <tr> <td></td> <td>8 Jun 2020</td> <td>8 May 2020</td> </tr> </table>	Start date	EU/EEA Students	Non-EU/EEA students		8 Jun 2020	8 May 2020
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	8 Jun 2020	8 May 2020					



Year EU/EEA Non-EU/EEA Institutional

No tuition fees available.

In short, the following rules apply:

- Tuition fees
- The "EU/EEA rate" is the regular fee for students from within the EU/EEA.
 - The "non-EU/EEA rate" is the rate for students from outside the EU/EEA.
 - The "institutional rate" is for all students who have already obtained a bachelor's or master's degree and who want to start a second programme leading to a degree at the same level or at a lower level.
 - Note that FT, PT and D stand for "full-time", "part-time" and "dual", respectively.

Make sure you contact your institution to find out what rate applies to you. The rates listed here are estimates.

Scholarships Orange Knowledge Programmes (OKP), MENA Scholarship Programme , Netherlands Fellowship Programmes (NFP)

For more scholarships, visit: www.grantfinder.nl

Course website [More information about the course](#)

Contact

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IHE Delft

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Telephone number

Course website

[More information about the course](#)

Institution website

[More information about the institution](#)

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