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River Basin 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 River Basin Modelling course provides competencies for assessment and appropriate application of alternative modelling software systems, primarily for planning and design problems in river basins.

Course description The short course in River Basin Modelling is designed for professionals (engineers and scientists) active in the water sector, especially those involved in using simulation models for river basin modelling. Pre-requisites are a basic knowledge of hydraulics and hydrology. The course aims at providing participants with a comprehensive understanding of the multi-purpose nature of river basins and model-based approaches to their integrated planning and management. The course covers the fundamentals of modelling, and how to build and apply reliable models for basin wide water allocation, groundwater and catchment management. During the course practical applications of modelling systems are demonstrated, involving testing of different management alternatives with fully integrated models. The three main topics of the course are introduced through computer-based hands-on exercises with appropriate modelling packages: • Basin-wide water allocation - RIBASIM; • Groundwater modelling - Processing MODFLOW; • Catchment and river modelling -MIKE SHE / MIKE 11 and SWAT;

Study Practical applications are demonstrated, involving testing of different management alternatives with fully integrated models. The three main topics of the course are introduced through computer-based hands-on exercises with appropriate modelling packages: Basin-wide



subjects	water allocation - RIBASIM; Groundwater modelling - Processing MODFLOW; Catchment / river modelling - MIKE SHE / MIKE 11.
Course objectives	The course aims at providing participants with a comprehensive understanding of the multi-purpose nature of river basins and model-based approaches to their integrated planning and management. Participants will be able to assess alternative modelling software systems, build safe and reliable models and know how to use them for planning and design.
ECTS credits	5.00
Duration	3 week(s) full-time
Language of instruction	English
Instruction modes	computer exercise, computer modeling, individual assignment, lecture, self 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. Preferably 2 to 3 years of practical or research work 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	Start date	EU/EEA Students	Non-EU/EEA students
		30 Mar 2020	28 Feb 2020
	Year	EU/EEA	Non-EU/EEA
		2019 (FT)	€ 2910
		€ 2910	n.a.

In short, the following rules apply:

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| Tuition fees | <ul style="list-style-type: none"> • 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. |
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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)
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For more scholarships, visit: www.grantfinder.nl

Course website	More information about the course
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Contact

C. Schutter-Brakel

Contact information for the study programme Admission and Fellowship Officer

c.schutter-brakel@un-ihe.org

IHE Delft

Contact information for the institution	Student Affairs
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info@un-ihe.org

Telephone number

Course website	More information about the course
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Institution website
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