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Computational Intelligence and Operational Water Management

IHE Delft Institute for Water Education

Certificate / Diploma Short course Delft

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Course description

Qualification	Certificate
Field of study	Engineering
Course summary	The course covers two important areas of hydroinformatics: • Real-time control systems for operational water management • Use of computational intelligence methods to build data-driven models
Course description	The course is designed for engineers and scientists involved in operational water management and control and interested to broaden their knowledge of modern approaches and modelling tools. The course could be also interesting to PhD and Master students conducting research in real-time control of water systems and/or use of data-driven models in hydrology, hydraulics or environment.
Study subjects	1. Introduction to optimisation. 2. Real time control of water systems 3. Data driven modelling and computational intelligence
Course objectives	• Understand main optimisation techniques and their use in model-based optimisation • Understand main principles of real-time control • Identify the potential of control to solve hydrological problems • Sketch a general plan for a regional real-time control system • Know the main techniques of data-driven modelling
ECTS credits	5.00
	3 week(s)

Duration	full-time
Language of instruction	English
Instruction modes	lecture, computer modeling, individual assignment
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	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

Start date	EU/EEA Students	Non-EU/EEA students
2 Mar 2020	2 Feb 2020	2 Feb 2020

Year	EU/EEA	Non-EU/EEA	Institutional
2019 (FT)	€ 2910	€ 2910	n.a.

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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Contact information for the study programme	Admission and Fellowship Officer
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	IHE Delft
Contact information for the institution	Student Affairs
	info@un-ihe.org
Telephone number	
Course website	More information about the course
Institution website	More information about the institution

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