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MSc in Groundwater and Global Change - Impacts and Adaptation

IHE Delft Institute for Water Education

Master Postgraduate Delft

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Course description

Qualification Master of Science

Field of study Agriculture and environment

Course summary Joint Master Course with IST Lisbon and TU Dresden on interactions between groundwater, climate and global change, and how they need to be considered when dealing with adaptation.

Course description GroundwatCH seeks to offer a distinctive curriculum built on the cornerstones of hydro(geo)logy, climatology, impacts and adaptation, within a framework of human pressures, global change and feedback mechanisms. Innovation and excellence in GroundwatCH is stimulated by the collaboration between three European HEIs, each with a distinct profile providing added value to the course, namely through: i) the environmental engineering perspective provided by IST Lisbon, as well as the know-how of the CVRM Research Centre in semi-arid hydrogeology; ii) the international experience of IHE Delft in hydro(geo)logical research, education and capacity building in many countries across the globe; iii) the renowned expertise in climate and hydrology from TU Dresden with its well-matched combination of engineering, geo and natural sciences. GroundwatCH will further provide outstanding opportunities to deepen cooperation with associated partners. Universities from China, Colombia, Morocco and Uganda are associated to the programme, as well as over 15 non-academic partners, essential for course dissemination and development, MSc research, optimizing learning outcomes and employability.

1st sem.(IST): Groundwater Flow, Pollution and Protection, Water Resources and



Study subjects	Environment, Policies, Ocean and Atmospheric Physics, IRBM 2nd sem. (UNESCO-IHE): Tracer Hydrology and Flow Systems Analysis, Groundwater Surveying and Modeling, Global Change Impacts and Adaptation 3rd sem. (TUD): Climate Systems and Modelling, Soil Water, Study Project IWRM, Optional subjects 4th sem.: Thesis study
Course objectives	1) Explain in detail how groundwater systems function; 2) Describe the interactions between groundwater systems, climate, surface waters and land use; 3) Use modelling tools for climate and groundwater systems; 4) Identify the consequences of predicted global and climate change impacts for groundwater management under uncertainty; 5) Plan groundwater-related adaptation solutions for global change.
ECTS credits	120.00
Duration	2 year(s) full-time
Language of instruction	English
Instruction modes	lecture, research, computer modeling, workshop, case study
Accreditation - Erasmus Mundus programme	This is an Erasmus Mundus programme.

About the institution

Department IHE Delft

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	<p>IELTS overall band 6</p> <p>TOEFL internet based 87</p>



	TOEFL paper based	999
Professional experience required	-	
Duration	2 year(s)	full-time
Application deadlines	Start date	EU/EEA Students Non-EU/EEA students
	16 Sep 2019	1 Jun 2019 1 Jun 2019
	Year	EU/EEA Non-EU/EEA Institutional
	2019 (FT)	€ 18000 € 18000 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	-
	For more scholarships, visit: www.grantfinder.nl

Course website	More information about the course
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Contact

I. Melis

Contact information for the study programme Admission and Fellowship Officer

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IHE Delft

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

Telephone number

Course website

Institution website

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