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Online course Urban Drainage and Sewerage

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 main purpose of the online course is to develop participants' skills on planning, design, construction, operation and maintenance and management of urban drainage systems. The course describes the

Course description Human beings interact with the natural water cycle in two main forms: the abstraction of water from the natural cycle to provide a water supply for human life, maintain a standard of living and satisfy the needs of industry and the changing of the natural surface with impermeable surfaces that divert rainwater away from the local natural system of drainage. These interactions give rise to two types of water that require drainage and resulted in the need of drainage systems especially in urban areas. The purposes of urban drainage systems include maintaining public health and safety, flood control, waste transport, water collection and recycling. Cities now house half of the world population, consume three quarter of its resources, and yet occupy only two per cent of the land surface. By the middle of the next century, it is predicted that seventy per cent of the global population will live in urban areas. Properly designed and operated urban drainage systems with its interactions with other urban water systems are crucial element of healthy and safe urban environment. The main purpose of the online course is to develop participants' skills on planning, design, construction, operat

Study 1. Introduction to urban drainage and sewer systems: o Describe the purpose, need and importance of urban drainage and discuss the challenges of modern urban drainage, explain why it is relevant to understand changes in water cycle due to urbanization in the context of



subjects	environmental security, illustrate the changes take place in the hydrological cycle at small scale, describe the influence of these changes on the total water cycle and list the adverse implications of the changes in the water cy
Course objectives	The course aims at providing an understanding of the basic principles and knowledge on planning, design, construction, operation and maintenance and management of urban drainage systems, on the use of modelling for simulation of urban drainage systems and on advanced topics related to urban drainage.
ECTS credits	5.00
Duration	18 week(s) part-time
Language of instruction	English
Instruction modes	case study, computer modeling, design project, individual assignment, lecture
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. Academic Bachelor's 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	-
	18 week(s)



Duration	part-time		
Application deadlines	Start date	EU/EEA Students	Non-EU/EEA students
	6 Jan 2020	6 Dec 2019	6 Dec 2019
	Year	EU/EEA	Non-EU/EEA
	2019 (PT)	€ 1035	€ 1035
			n.a.
		Institutional	

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

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IHE Delft

Contact information for the institution	Student Affairs
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Telephone number

Course website	More information about the course
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Institution website
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