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Urban Water Systems

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 Safe and reliable models of urban water systems are of increasing value in both developed and developing countries. The course covers water distribution, drainage, wastewater treatment+receiving water

Course description The course covers the fundamentals of modelling, and how to build and apply reliable models for water distribution, wastewater and storm water drainage, wastewater treatment plants and the impact on receiving streams of polluted discharges from sewage and combined sewerage overflows. The course is designed for professionals active in the water sector, especially those involved in using simulation models for water distribution, wastewater and storm water networks, treatment plants and the water quality of receiving streams. This course offers an overview of the modelling process and systems available and currently in use for urban water systems. Applications of the modelling systems are made to practical problems, such as improving the performance of systems, leakage control in water distribution networks, rehabilitation of sewerage networks, analysis of treatment works, and minimising the impact of sewerage overflows on receiving waters. Water distribution Leakage control Asset management Stormwater and Wastewater Combined sewerage overflows Floods Flow surveys Inflow and infiltration Wastewater treatment methods Real time operation Receiving waters

Study Water Distribution Network Design; Potable Water Demand Management; Wastewater Collection Systems, Combined Sewerage Networks; Storm Water Drainage Systems; Asset



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| subjects | management; Urban Flood Management; Receiving Water Impact Analysis; Flow and Rainfall Data Collection; Activated Sludge Treatment. |
| Course objectives | To introduce participants to the development of safe and reliable models for cost-effective, sustainable and environmentally sound operation, design and management of urban water systems. |
| ECTS credits | 5.00 |
| Duration | 3 week(s) full-time |
| Language of instruction | English |
| Instruction modes | lecture, case study, computer exercise, 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

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| 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 |



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| Application deadlines | Start date EU/EEA Students Non-EU/EEA students |
| | 8 Jun 2020 8 May 2020 8 May 2020 |
| | Year EU/EEA Non-EU/EEA Institutional |
| | 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.

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| Scholarships | Orange Knowledge Programmes (OKP), MENA Scholarship Programme , Netherlands Fellowship Programmes (NFP) |
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For more scholarships, visit: www.grantfinder.nl

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| 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

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| Contact information for the institution | Student Affairs |
|---|-----------------|

info@un-ihe.org

Telephone number

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| Course website | More information about the course |
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Institution website
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