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Online course Modelling Sanitation Systems

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 objective of the course is the application of mathematical models for simulation by computers in the field of the urban water cycle, urban drainage, sewerage and a selection of sanitation systems.

Course description This course focuses on presentation the urban water cycle followed by modelling of urban drainage and sewerage and a selection of sanitation systems for which models have been developed. For each system the state of the art of the process will be provided as well as the model achievements so far. Case studies will be presented to illustrate the applicability of the models, and assignments using AQUASIM software (<http://www.aquasim.eawag.ch/>) will be done by course participants to apply the gained knowledge for a pre-defined situation. After completion of the course, the participants: • Understand the possibilities, potential and mechanisms of a mathematical model for ` research, design or optimization for wastewater collection and wastewater treatment systems • Select the appropriate model and simulation software for a specific case Target group: professionals actively involved in the urban water cycle and/or wastewater treatment or those who have an interest in model application from a research point of view. Basic knowledge of urban drainage and sewerage, wastewater treatment processes, biochemistry and microbiology is required for successful completion of the course.

Study Introduction to Modelling of Sanitation Systems, Urban drainage and sewerage, Activated sludge systems, Membrane Bioreactor (MBR), Anaerobic digestion, Biofilm systems, Ponds



| | |
|-------------------------|---|
| subjects | and wetlands. |
| Course objectives | The objective of the course is to gain understanding of and to be able to apply computer models in the field of sanitation. |
| ECTS credits | 5.00 |
| Duration | 18 week(s) part-time |
| Language of instruction | English |
| Instruction modes | computer modeling, design project, laboratory work, lecture, research |
| Accreditation | - |

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

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

-

Duration

18 week(s)
part-time

Application

| Start date | EU/EEA Students | Non-EU/EEA students |
|------------|-----------------|---------------------|
| | 4 May 2020 | 4 Apr 2020 |



deadlines 3 May 2021 3 Apr 2021 3 Apr 2021

Year EU/EEA Non-EU/EEA Institutional
2020 (PT) € 1035 € 1035 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 -
For more scholarships, visit: www.grantfinder.nl

Course website [More information about the course](#)

Contact

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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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