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## Anaerobic Wastewater Treatment

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 This is a specialist course fitting within biological wastewater treatment, designed for sanitary/civil and environmental engineers interested in anaerobic treatment of domestic/industrial wastewater.

Course description Anaerobic treatment of industrial and domestic wastewater is considered a grown-up and cost effective technology. Anaerobic wastewater treatment (AnWT) requires none or very little energy for operational purposes while producing methane. Treatment of domestic wastewaters is so far restricted to countries with warm climates, a region that often lacks appropriate wastewater treatment systems. A proper understanding of AnWT and related technologies is a prerequisite for implementation and further spreading of environmental protection technologies that are also focusing on resource preservation. Knowledge on cost effective treatment systems for sanitary wastewaters, including domestic sewage, will contribute to setting up adequate sanitation solutions worldwide. After completion of the course, the participants will have a proper understanding of Anaerobic wastewater treatment and technologies; know how to calculate on COD balances; be able to design a basic UASB reactor; know how anaerobic reactor effluent can be treated; be introduced to innovations in anaerobic wastewater treatment such as anaerobic MBRs.

Study subjects Anaerobic reactor technology Basic calculations, working with COD balancing, bio-essays Microbiology and biochemistry of anaerobic conversions UASB: principles, design, start-up, affecting factors Treatment of anaerobic reactor effluent Anaerobic membrane bioreactors



Course objectives	Case studies After completion of the course, the participants will: have a proper understanding of Anaerobic wastewater treatment (AnWT) and technologies making use of anaerobic treatment know how to calculate on COD balances be able to design a basic UASB reactor know how anaerobic reactor effluent can be treated be introduced to innovations in anaerobic wastewater treatment such as anaerobic MBRs
ECTS credits	0.00
Duration	1 week(s) full-time
Language of instruction	English
Instruction modes	case study, colloquium, computer exercise, design project, excursion, laboratory work, lecture
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
Language requirements	IELTS overall band 6 TOEFL internet based 87 TOEFL paper based 999
Professional experience required	-
Duration	1 week(s) full-time
Application	<b>Start date</b> EU/EEA Students Non-EU/EEA students



deadlines 9 Mar 2020 9 Feb 2020 9 Feb 2020

Year	EU/EEA	Non-EU/EEA	Institutional
2019 (FT)	€ 970	€ 970	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

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For more scholarships, visit: [www.grantfinder.nl](http://www.grantfinder.nl)

Course website

[More information about the course](#)

## Contact

**Claudia Schutter-Brakel**

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](mailto:info@un-ihe.org)

Telephone number

Course website

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Institution website

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