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## Online course Desalination and Membrane Technology

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 aim of the course on 'Desalination and Membrane Technology' is to provide theoretical understanding and practical insights to the development of desalination systems and membrane technology.

Course description xx

Study subjects The course covers the following subjects:- Introduction: Desalination and membrane related technologies, water sources, applications, capacities and cost.- Ultra- and microfiltration: principles, overview of elements and systems, fouling and cleaning.- Reverse osmosis (and nano-filtration): Principles, overview of RO membranes and elements, summarizing process design of RO systems with spira

Course objectives This course provides theoretical and practical knowledge on the design and operation of reverse osmosis systems applied in desalination of seawater and brackish water. Specific topics such as membrane fouling, scaling, and cleaning are dealt with in detail, including pre-treatment options and the latest developments in monitoring and controlling fouling.

ECTS credits 5.00  
18 week(s)



Duration part-time  
 Language of instruction English  
 Instruction modes computer exercise, design project, individual assignment, lecture, self study  
 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**

1. several years of relevant work experience
2. Relevant academic bachelor degree or equivalent qualification in a relevant subject from a recognized research 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 deadlines**

Start date	EU/EEA Students	Non-EU/EEA students
7 Sep 2020	7 Aug 2020	7 Aug 2020

Year	EU/EEA	Non-EU/EEA	Institutional
2019 (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](http://www.grantfinder.nl)

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

## Contact

### Ms T. van der Zee

Contact information for the study programme Fellowship and Admission 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

[More information about the course](#)

Institution website

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