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## Port Planning and Infrastructure Design

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 goal of the short course is to familiarise the participants with the design of a port and port related structures in the port area or offshore such as breakwaters and berthing facilities.

Course description In this short course, the main focus is on the difference between alternative types of breakwaters and governing factors for their selection, the engineering design of breakwaters from conceptual to detailed and the preparation of layouts and detailed cross-sections. Also the application of the submerged breakwater and the effect of construction of breakwaters on the adjacent coastline will be discussed. In order to achieve these goals, this course contains a real based exercise and participants will be asked to design the breakwaters of a port and defend their design in front of a group of experts. Meanwhile an overview of the use of physical models in design of coastal structures including outline of the factors determining the design of scale models, reproduction of various hydraulic phenomena and scale effects will be given. Also in this course the physical structures and vessels used in the offshore industry will be reviewed.

Study subjects Marine structures; Port Planning, Excursion Port of Rotterdam and Maeslantkering.

Course objectives Have an insight into the design and construction of offshore berthing structures. Application in a design exercise. Know the basic principles for the preparation of layout of a port and the various types of terminals, know how to apply the planning process. The course can be attended separately or in combination with Coastal and Port Structures I.



ECTS credits 5.00

Duration 3 week(s)  
full-time

Language of instruction English

Instruction modes case study, computer exercise, design project, group assignment, lecture, oral presentation

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. Relevant wo bachelor (academic bachelor): BSc degree or equivalent qualification in a relevant field from a recognised university
2. Several years of working experience

**Language requirements**

IELTS overall band 6  
TOEFL internet based 87  
TOEFL paper based 999

**Professional experience required**

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**Duration**

3 week(s)  
full-time

**Application deadlines**

Start date	EU/EEA Students	Non-EU/EEA students
13 Jan 2020	13 Dec 2019	13 Dec 2019

Year	EU/EEA	Non-EU/EEA	Institutional
2019 (FT)	€ 2910	€ 2910	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 Orange Knowledge Programmes (OKP), MENA Scholarship Programme , Netherlands Fellowship Programmes (NFP)

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

[c.schutter-brakel@un-ihe.org](mailto:c.schutter-brakel@un-ihe.org)

### **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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