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MSc in Irrigation Engineering and Management (formerly 'Land and Water Development') for Food Security

IHE Delft Institute for Water Education

Master Postgraduate Delft

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Course description

Qualification Master of Science

Field of study Agriculture and environment

Course summary You will learn to plan, design, operate and maintain land and water resources and water-related infrastructure, emphasising on the modernisation of irrigation, drainage and flood protection schemes, a

Course description The land and water development engineer is concerned with the development, adaptation and management of land and water resources for the different types of land use, with a focus on agricultural / food production purposes. The typical student has a BSc degree in agricultural or civil engineering with a hydraulic background, and has worked in professional practice or in a university or research environment in irrigation, drainage or land and water development for at least three years. The participant is eager to acquire practical skills and knowledge to solve engineering, and water management or flood protection problems. Computer literacy is a valuable asset. Future careers may be in government services, consultancy, or education and research institutes.

Study subjects Introduction to Land and Water Development; hydraulics; Soil-Water-Plant Relationships; Agronomy; Irrigation and Drainage Systems Design and Management; Flow Control and Irrigation Structures; Integrated Lowland Development; GIS/Remote Sensing



Course objectives	To train the LWD engineer to conduct individual research and/or develop, adapt and manage land and water resources, primarily for agricultural purposes. Examples are irrigation and drainage systems; flood protection land reclamation and consolidation.
ECTS credits	106.00
Duration	19 month(s) full-time
Language of instruction	English
Instruction modes	case study, computer exercise, individual assignment, lecture, research
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. Preferably 2 to 3 years of practical or research work experience
2. BSc degree in relevant field

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

Professional experience required
-

Duration
19 month(s)
full-time

Application deadlines
Start date **EU/EEA Students** **Non-EU/EEA students**
15 Oct 2020 1 Aug 2020 1 Aug 2020

Year **EU/EEA** **Non-EU/EEA** **Institutional**



2020 (FT) € 21942 € 21942 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), Netherlands Fellowship Programmes (NFP)
For more scholarships, visit: www.grantfinder.nl

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

Contact

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IHE Delft

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Telephone number

Course website

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Institution website

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