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Advanced Water Management for Food Production with Nebraska University - USA

IHE Delft Institute for Water Education

Master Postgraduate Delft

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Course description

Qualification Master of Science

Field of study Engineering

Course summary The course is providing in-depth training in the area of water for food security and agricultural procedures, identify and develop water resources and use water- and soil-conserving cropping systems.

Course description The Advanced Water Management for Food Production program offers students the opportunity to study in Lincoln, Nebraska, USA and Delft, the Netherlands at two institutions known for providing exceptional postgraduate education in water and agriculture: UNL and IHE Delft. The program consists of a total of eight UNESCO-IIHE modules, each three weeks in duration, and ten UNL semester courses, each with a duration of 15 weeks. After completing coursework, students undertake an individual MS/MSc research project within a country of their choice and with the approval of their academic advisors. Students begin their studies in October at IHE Delft, the Netherlands, where they complete modules one through eight. Upon completion of their IHE Delft coursework, students travel in May to UNL in Lincoln, Nebraska, USA to complete the remainder of their studies. This includes summer courses in research methodology, project proposal preparation, and field methods, followed by MS/MSc field research for their thesis. Thesis research will be advised by faculty from both UNL and IHE Delft. Following summer research field work, students take remaining courses and write their thesis.



Study subjects	Hydrology; Hydraulics; Irrigation and drainage system design; Agronomy; Water-Plant relations; Management of Irrigation Systems; Sociological aspects; EIA; Groundwater irrigation; Flow control; Irrigation and drainage structures; Sprinkler and drip irrigation; GIS and remote sensing; Measurement techniques; Water law; Irrigation and drainage systems engineering; Research methodology; MSc Research.
Course objectives	Understand the latest concepts of irrigation, drainage, land reclamation and consolidation technologies for food production and the cross-sectoral linkages of society, economy and the environment. Master the water management, hydraulic engineering and hydrological methods to apply in design and implementation of irrigation and drainage schemes, to enhance crop production with limited water supply.
ECTS credits	112.00
Duration	20 month(s) full-time
Language of instruction	English
Instruction modes	case study, computer exercise, design project, 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. Bachelor degree in relevant field
2. Several years (2 to 3) of working experience

Language requirements

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

Professional experience -



required

Duration 20 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) € 35709 € 35709 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

I. Melis

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



Telephone number

Course website

Institution website

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