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Planning and Delivery of Flood Resilience

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 short course discusses conceptual frameworks, planning approaches, implementation strategies and governance arrangements to deal with potential flood events and future changes in flood risk.

Course description Flood risk management: This topic addresses an integrated approach to the analysis and management of flood risks and benefits. It focuses on all aspects of pre-event mitigation: protection, prevention and preparedness. Protection is directed at reducing the likelihood of floods. Prevention involves sustainable spatial planning and infrastructure protection, while preparedness concerns taking organizational measures. Flood event management: This topic introduces an emerging approach to understand and analyse flood resilience: The ability of a community or area to remain functioning under a range of flood magnitudes. It addresses the management of flood events, including preparedness, emergency relief and recovery. A framework for promoting community resilience will be established. Adaptive delta management: This topic applies the Adaptive Delta Management (ADM) approach, which is a transparent way of including uncertainty around future changes in adaptation decision making. This includes developing Adaptation Pathways, which refers to a sequence of adaptation measures and options. Examples include the Dutch and Bangladesh Delta Plans.

Study Week 1 will address the analysis and management of flood risk, with a focus on protection, prevention and preparedness. Week 2 will introduce an approach to analyse flood resilience. This concerns the ability of a community or area to remain functioning in the face of floods.



subjects	Week 3 will apply Adaptive Delta Management, which is an approach to include uncertainty in adaptation decision making.
Course objectives	<ul style="list-style-type: none"> • Define and analyse flood risk as we" as flood resilience; • Develop and evaluate flood risk management strategies, with a focus on protection, prevention and preparedness; • Explain the need for and place of community resilience in flood event management; • Apply Adaptive Delta Management for large rivers and estuaries, including the concepts of Adaptation Tipping Points and Adaptation Pathway.
ECTS credits	5.00
Duration	3 week(s) full-time
Language of instruction	English
Instruction modes	case study, group assignment, lecture, self study, oral presentation
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	<ol style="list-style-type: none"> 1. Preferably 2 to 3 years of relevant professional experience. 2. Academic bachelor degree in a relevant subject or equivalent qualification from a recognized university.
Language requirements	IELTS overall band 6 TOEFL internet based 87 TOEFL paper based 999
Professional experience required	-
	3 week(s)



Duration	full-time
Application deadlines	Start date EU/EEA Students Non-EU/EEA students 20 Apr 2020 20 Mar 2020 20 Mar 2020
	Year EU/EEA Non-EU/EEA Institutional 2019 (FT) € 2910 € 2910 n.a.

In short, the following rules apply:

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| Tuition fees | <ul style="list-style-type: none"> • 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. |
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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
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Course website	More information about the course
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Contact

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Contact information for the study programme Admission and Fellowship Officer

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IHE Delft

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Telephone number



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