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Water Resources Planning

IHE Delft Institute for Water Education

Certificate / Diploma Short course Delft

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Course description

Qualification Certificate

Field of study Economics, commerce, management and accounting

Course summary Successful participants will be able to guide and participate in multi-disciplinary water resources planning activities, applying methodologies and techniques of plan formulation and analysis

Course description The course consists of 3 main subjects and at least 1 field-trip, briefly described below (1) Framework for Analysis for Water Resources Planning: Processes of and tools for water resources planning at national water sector and river basin level. Topics: (a) Situation and function analysis, (b) Hierarchy of objectives and criteria, (c) Boundary conditions for system analysis, and (d) Formulation and evaluation of strategies. (2) (Social) Cost-benefit Analysis (SCBA) : Understand the application of economics to water management problems. Topics: (a) financial model for an investment project, (b) conduct a financial CBA and SCBA, (c) Understand the relevance of assumptions. (3) Environmental Impact Assessment (EIA) and Strategic Environmental Assessment (SEA), with topics (a) Describe environmental impacts, (b) Principles of environmental assessment (EIA/SEA); (c) Methodologies available for environmental assessment and communication. (4) Field-trip: visit to three institutions responsible for multi-level multi-sectoral planning of water resources. The course consists of lectures, simulation game, exercises, assignments and self-study.

Study subjects Framework for Analysis; Principles of Integrated Water Resources Planning; Planning Scales and Approaches; Planning on River Basin Level; Water Sector and Function Analysis; Analytical Hierarchy Process of Objectives and Criteria;



Course objectives	Successful participants will be able to evaluate, participate in and guide water resources planning activities applying planning techniques and water resources system analytical methodologies. Successful participants will be familiar with the economic concepts of water resources planning and will be able to communicate successfully with economists on the issues involved.
ECTS credits	5.00
Duration	3 week(s) full-time
Language of instruction	English
Instruction modes	lecture, case study, gaming, individual assignment, excursion
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	<ol style="list-style-type: none"> Several years of relevant working experience Relevant wo bachelor (academic bachelor) Understanding of the water resources physical system and water using activities such as agriculture, water supply, environmental demands. Computer literacy. Good command of English language
Language requirements	IELTS overall band 6 TOEFL internet based 87 TOEFL paper based 999
Professional experience required	-
Duration	3 week(s) 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
	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

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

Contact

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Contact information for the study programme fellowship & admission officer

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IHE Delft

Contact information for the institution

Student Affairs

info@un-ihe.org

Telephone number

Course website

[More information about the course](#)



Institution website
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