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Hydrological Data Collection and Processing

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 course addresses hydrological data collection, processing and archiving, and the provision of hydrological services.

Course description Water resources assessment, planning and management ultimately rely on the availability of hydrological and hydrometeorological data. This course addresses aspects of data collection, processing, archiving as well as issues related to providing hydrological services from an operational point of view. The principles of hydro-meteorological data collection and processing are explained in class lectures. Topics include data collection networks and network design, operational, institutional and financial aspects; data bases, information provision and hydrological services; publicly available data sources, integration of data sources, measurement and processing of river flow data. Quality control of station time series and data collection networks are also dealt with. Practical exercises include the processing, analysis and evaluation of hydrological time series data and hands-on experience with acquisition and processing of data from internet archives. Working in small groups, participants will gain experience in using hydrometeorological instruments at the 'roof instruction station' during the period of one week. The results are presented in a report and an oral presentation.

Study Principles of Hydrological and Hydrometeorological Data Collection-Networks. Operational, Institutional and Financial Aspects; Data Bases, information dissemination/ hydrological Services. Integration of Data Sources; Data Quality Control and Evaluation Techniques.



subjects	Practical Exercises in Processing, Analysis and Evaluation of Hydrological Time Series, Routine Daily Hydrometeorological Measurements. Hydrogeostatistics and Water Resources Assessment.
Course objectives	Upon completion of this module, the participant has: extensive knowledge of principles and methods used for stream flow measurements; gained insight and application experience in principles and concepts used in hydrological data networks and routine data collection; obtained hands-on experience with measurement, processing and comparative analysis of hydro-meteorological data.
ECTS credits	5.00
Duration	3 week(s) full-time
Language of instruction	English
Instruction modes	computer exercise, group assignment, lecture, oral presentation, workshop
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. Several years of relevant working experience 2. Relevant wo bachelor (academic bachelor): BSc degree or equivalent qualification in a relevant field from a recognised university
Language requirements	<p>IELTS overall band 6</p> <p>TOEFL internet based 87</p> <p>TOEFL paper based 999</p>
Professional experience required	-



Duration	3 week(s) full-time		
Application deadlines	Start date	EU/EEA Students	Non-EU/EEA students
		30 Mar 2020	29 Feb 2020
		29 Feb 2021	28 Feb 2021
	Year	EU/EEA	Non-EU/EEA
	2020 (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)
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For more scholarships, visit: www.grantfinder.nl

Course website	More information about the course
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Contact

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IHE Delft

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Telephone number
Course website
Institution website
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