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UNIVERSITY OF TWENTE.

Big Geodata Processing

University of Twente

Certificate / Diploma Short course Enschede

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Course description

Qualification Certificate

Field of study

Mathematics, natural sciences and computer science

Course summary

In this course, we present methods and techniques that can be used to build solutions that operate with massive and potentially heterogeneous amounts of spatio-temporal data. Thanks to the digital, mobile and sensor revolutions, massive amounts of data are becoming available at unprecedented spatial, temporal, and thematic scales. This leads to the practical problem of transforming big geodatasets into actionable information that supports decision-making at various scales, and that can be further processed to generate new knowledge. In this respect, geodata science workflows and modern data management systems are not only key to processing big geospatial datasets but also to sharing the extracted information and knowledge, and to ensuring the reproducibility of the results. In this course, we present methods and techniques that can be used to build solutions that operate with massive and potentially heterogeneous amounts of spatio-temporal data. Building such a bigdata solution requires: 1/ understanding the advantages and limitations of various types of cloud-based solutions, 2/ using a scalable data management system, 3/ building scalable and robust data mining and machine learning workflows that allow processing large amounts of geodata (e.g., to identify data clusters and create data-driven classification and regression models).

Course description

Study subjects

-

Course



objectives -
 ECTS credits 5.00
 Duration 33 day(s)
 full-time
 Language of instruction English
 Instruction modes group assignment, individual assignment, lecture, practicum, self study
 Accreditation NVAO

About the institution

Department -
 Information about the institution The University of Twente is where talent can best realize its full potential. Students and staff are the key. Together they ensure pioneering research, relevant innovation and inspiring education.

Admission

Admission requirements

1. Applicants should have a bachelor's degree or equivalent from a recognized university in a discipline related to the course, preferably combined with working experience in a relevant field.
2. Applicants should have a bachelor's degree or equivalent from a recognized university in a discipline related to the course, preferably combined with working experience in a relevant field.

Language requirements

Cambridge Certificate in Advanced English	C1
Cambridge Certificate of Proficiency in English	C2
IELTS overall band	6.0
TOEFL internet based	80
TOEFL paper based	550

Professional experience required -

Duration 33 day(s)
 full-time

Application deadlines

Start date	EU/EEA Students	Non-EU/EEA students
2 Sep 2019	8 Jul 2019	8 Jul 2019

Year	EU/EEA	Non-EU/EEA	Institutional
2019 (FT)	n.a.	n.a.	€ 1116

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

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Course website

[More information about the course](#)

Institution website

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