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Data Analysis in R (VU Amsterdam Summer School)

Vrije Universiteit Amsterdam

Certificate / Diploma Summer course Amsterdam

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Course description

Qualification Certificate

Field of study Mathematics, natural sciences and computer science

Course summary Thorough introduction to various R software packages, linear regression, and variable analysis. Practical training in writing functions, data presentation, and multi-item scales.

Course description With the increasing use of alternative software packages like R in data analysis, now is the time to learn their ins and outs. This course focuses on understanding statistical models and analysing the results whilst learning to work with R. In addition to introducing the software to newcomers, it presents basic and more advanced statistics using an overarching framework of generalized linear modelling. We start with descriptive statistics before moving on to basic tests and simple regression. Students also learn how to analyse the multi-item scales which are often applied in survey research using exploratory and confirmatory factor analysis. We then introduce the generalized linear framework to analyse non-normally distributed variables and, lastly, multi-level modelling. Students will work with R, conducting exercises that teach them how to analyse multi-item scales, analyse relationships among binary and interval variables, and apply generalized linear regression models. At the end of the two weeks students will be acquainted with various popular R packages, be able to write their own functions, and use attractive plots to present their data. No programming experience required.

Study subjects -



Course objectives	-
ECTS credits	3.00
Duration	2 week(s) full-time
Language of instruction	English
Instruction modes	excursion, group discussion, lecture, individual assignment, literature study, self study
Accreditation	-

About the institution

Department	-
Information about the institution	Ever since it was founded in 1880, Vrije Universiteit Amsterdam has been known for its distinctive approach to knowledge. VU is an open organization, strongly linked to people and society.

Admission

Admission requirements	
Language requirements	
Professional experience required	-
Duration	2 week(s) full-time
Application deadlines	Start date EU/EEA Students Non-EU/EEA students 20 Jul 2019 1 May 2019 -
	Year EU/EEA Non-EU/EEA Institutional 2019 (FT) € 1150 € 1150 € 1150

In short, the following rules apply:

- | | |
|--------------|---|
| 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

-

For more scholarships, visit: www.grantfinder.nl

Course website

[More information about the course](#)

Contact

Contact information for the study programme

studievoorlichting

Contact information for the institution

study info

contact@vu.nl

Telephone number

+31(0)205986429

Course website

[More information about the course](#)

Institution website

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