Course: Quantitative Data Analysis — credits: 5

Course code	IFCP18QDA1A
Name	Quantitative Data Analysis
Study year	2026-2027
ECTS credits	5
Language	English
Coordinator	G.L. Veenstra
Modes of delivery	Lecture Project-based learning Tutorial
Assessments	Quantitative Data Analysis - Computer, organised by STAD examinations

Learning outcomes

- The student processes quantitative economic and financial data into descriptive statistics, tables and charts, and formulates straightforward interpretations.
- The student explains and applies the theory of central tendencies on gathered quantitative economic and financial data and interprets these tendencies in the right context.
- The student explains and applies the theory of variation and shape on gathered quantitative economic and financial datasets and interprets the outcomes in the right context.
- The student explains and applies basic methodology of Poisson and Normal distributions on straightforward financial or economic problems.
- The student explains and applies the simple bivariate linear regression model and related correlation and is able to interprets the outcomes in the right context.

Content

The module provides the basics for statistical analysis, as applied to business and financial situations and problems. The subject deals with quantitative analysis techniques that can assess risks and applies probability rules to all kinds of situations than can occur in business. All solutions are to be executed in the Excel program.

Example of professional tasks and products:

Visual management reporting on all or some of the above financial and economic data
1. Histogram
2. Boxplot
3. Pie chart
4. Scatter plot
5. Time series plot
6. Percentage polygon
7. Pareto chart

Quantitative based management information, based on financial and economic data
1. Computing Normal probabilities
2. Computing Poisson distributed possibilities
3. Determining simple linear (bivariate) regression
4. Doing predictions by regression analysis and knowing the possibilities and restrictions

Included in programme(s)

International Finance & Control

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