Universität Regensburg

FAKULTÄT FÜR
WIRTSCHAFTSWISSENSCHAFTEN
Lehrstuhl für Statistik und
Risikomanagement

B.Sc. Course (Elective Module Bachelor Study Phase 1)
Statistik 1 (Statistics 1)
Course number 22013 (Tutorial 22014)

Examiner Prof. Dr. Daniel Rösch / Dr. Rainer Jobst

Instructor Dr. Rainer Jobst

Tutorial Student and Research Assistants

Course Objectives The primary objective of this course is to get basic knowledge in descriptive statistics and probability theory. After this course, students should have a deeper understanding how to analyze and describe data and should be aware of basic probability concepts and their applications.

In short, the topics covered in the course include:

- Descriptive statistics
- Uni- and multivariate frequency distributions
- Measures for central tendency
- Measures for variation
- Measures for higher moments
- Measures for concentration
- Correlation
- Dependence
- Probability theory
- Univariate random numbers

Primary Learning Outcomes Students acquire basic knowledge in descriptive statistics which is used to analyze data in depth. Furthermore, an introduction in probability theory is given, while students exemplary learn first applications of probability theory in finance. Contents are complemented by examples in an accompanying tutorial.

Prerequisites None

Applicability of the BSc Module WiWi - BSc - Quantitative Grundlagen BWL/VWL/IVWL/Immo/DB/DEP
Chemie - BSc - BWL 2 WiChem.
FIDS - BSc - Quantitative Grundlagen WInfo

Frequency Winter term

Recommended Semester 1

Examination Written exam, 90 minutes

Workload	Workload: Overall: 180h (6 ECTS * 30h) Hours of presence: 60h Selfstudy: 120h
Credit Points	6 ECTS
Last updated	July 31, 2026