

Statistics for Business and Economics

Study programme	YUFE Joint Bachelor in Urban Sustainability Studies
Academic year	2026/2027
Curriculum component	First year
Year and semester	1st year, semester 2
Course type	Compulsory
ECTS credits	5
Contact hours (L+S+E)	30 + 0 + 30
Language of instruction	English

Contact

Course coordinator

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Prerequisites

No requirements.

Course objectives

The aim of the course is for students to develop broader way of thinking while studying mass socio-economic phenomena. The character of the course is applicative, so the course emphasizes the quantitative approach to the business and economics problems. The objective is to enable students to correctly choose appropriate statistical methods, make a statistical analysis and explain it. This knowledge is the basis for a better understanding of the professional literature and for a more successful study of other courses, both methodological and others.

Learning outcomes

- Identify and explain the basic concepts of statistics and probability. Analyze statistical data using descriptive statistics methods, apply probability and estimate population parameter based on a sample.

Course content

- Definition of statistics. Basic concepts. Statistical data. Data editing and tabulation. Statistical graphics. Software support for statistical analysis. Data analysis
- using descriptive statistics methods. Time series analysis. Definition of time series. Dynamics indicators. Indices. Basic concepts of probability. Random
- variable and its properties. Selected discrete and continuous probability distributions. Central limit theorem. Sampling distributions. Estimation of selected
- population parameters. Estimation of the difference of selected parameters of two populations. Determining the minimum required sample size.

Teaching and learning methods

lectures and practical classes.

Assessment and grading

Continuous assessment (midterm exams up to 70%) Written exam up to 30% • Attending classes on a regular basis is in the best interest of students; it is also the prerequisite for getting the grade through midterm exams and, according to the UNIRI Code of Conduct, a responsibility of every full-time student. Class attendance will be controlled.; • Students should come to classes fully prepared and ready to answer questions regarding the studied topics when they are called upon (which will enable; them to earn extra class activity points). All students are expected to actively listen to the lectures and the communication of their fellow students.; • Unacceptable classroom behaviour (disruption of lectures, arriving late/leaving early, usage of digital devices...) will be sanctioned by expelling a disruptive; student from the classroom. Course holders/assistants/associates have the right to send the disruptive student to a disciplinary hearing.; • All written assignments, presentations and the overall communication during classes should be on the level of academic and professional standards. If the; quality of student's written papers and/or oral discussions were to be below the acceptable level in any way, then this student will not be able to score; maximum available points from the affected component of the grade (in some cases, the student may even earn no points at all from that component of the; grade).; • The use of this course's Merlin web page is obligatory for all students; it allows them to monitor their e-mails, class notifications and activities calendar,; carry out their assignments on time, and apply for the exams. Merlin system also serves for communication between students and lecturers, discussions, the; use of materials for students' papers, training materials for the exam.

Grading scale

Grade	Percentage
5 (A)	90-100%
4 (B)	75-89.9%
3 (C)	60-74.9%
2 (D)	50-59.9%
1 (F)	0-49.9%