

SUBJECT CARD

1. Basic information

Subject	Statistics
Faculty	Faculty of Law
Field of studies	International Relations
Specialization	international business
PRK level	6 PRK
Education level	first-cycle studies
Form of studies	full-time studies
Group of activities	—
Number of ECTS points	3
Type of subject	obligatory
Total number of hours	30 h
Didactic cycle	2024/2025 winter
Academic semester	4
Academic year	2
Education profile	general academic
Year of implementation	2025/2026
Language of instruction	English
Teacher(s)	dr Piotr Staliński

Semester, number of ECTS points, type of subject, number of hours

Semester	Lecture	Class	ECTS
4	20 godz.	10 godz.	3

2. General objectives

C1	The course provides students with a conceptual introduction to the field of statistics and its many applications. The course will cover a variety of subject areas including descriptive statistics, introduction to probability, discrete and continuous probability distributions, sampling and sampling distributions, and interval estimation. The discussion and development of each technique will be presented in an application setting, with the statistical results providing insights to decisions and solutions to problems.
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3. Introductory requirements

Mathematics for Economists.

4. Learning outcomes

W1	Knowledge: to summarize data using basic graphical and tabular tools
W2	Knowledge: to characterize data using basic numerical measures.
W3	Knowledge: to discuss the concept of random variables, probability distributions, and their parameters
W4	Knowledge: to discuss and apply discrete and continuous probability distributions including binomial and normal distributions.
W5	Knowledge: to explain the purpose of statistical inference, sampling, and sampling distributions.
W6	Knowledge: to explain and apply the concept of confidence intervals for population mean and proportion.
U1	Skills: applies the concept of statistical inference - calculates confidence intervals and conducts hypothesis testing - to make conclusions about the characteristics of studied populations applies computer tools to calculate probabilities, perform interval estimation, and conduct hypothesis testing.
K1	Social competence: discusses and applies the concept of random variables, probability distributions, and their parameters

5. Course program

Lecture (20 h)

Code	Detailed description of the topic blocks (semester: 4)
Wyk1	Descriptive statistics: tabular and graphical methods.
Wyk2	Descriptive statistics: numerical methods.
Wyk3	Discrete and continuous probability distributions.
Wyk4	Sampling and sampling distributions.
Wyk5	Confidence intervals: population mean and proportion.

Class (10 h)

Code	Detailed description of the topic blocks (semester: 4)
Cw1	Descriptive statistics: numerical methods.
Cw2	Discrete and continuous probability distributions.
Cw3	Confidence intervals for the mean and the proportion.

6. Didactic methods

Lecture	
M4	Computer exercises
M18	Problem solving
M20	Lecture
Class	
M4	Computer exercises
M18	Problem solving
M20	Lecture

7. Student workload

Number of hours under supervision	Student workload
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Lecture	20 h
Including e-learning:	0 h
Class	10 h
Including e-learning:	0 h
Student's own work	
	45 h
Total workload	
Total number of hours for the course	75 h
Total number of ECTS points	3 ECTS

8. Conditions for course completion

Course completion criteria

The workshop test involving solving computational problems (a passing mark of at least 3.0 is required to be admitted to the exam).

The exam.

Lectures (Final exam / Final pass)	
Grade 5:	88-100 pkt.
Grade 4,5:	80-87 pkt.
Grade 4:	70-79 pkt.
Grade 3,5:	60-69 pkt.
Grade 3:	50-59 pkt.
Class	
Grade 5:	88-100 pkt.
Grade 4,5:	80-87 pkt.
Grade 4:	70-79 pkt.
Grade 3,5:	60-69 pkt.
Grade 3:	50-59 pkt.

9. Literature

Basic literature

1. Anderson, Sweeney, Williams, Statistics for Business and Economics, Thomson, 11th ed. 2011 (electronic version available)

Supplementary literature

1. Levine, Stephan, Krehbiel, Berenson, Statistics for Managers using Excel, 5th ed. Prentice Hall, 2008 (electronic version available).

11. Information about academic teachers

The person responsible for the card

dr Piotr Staliński (e-mail: pstalinski@uafm.edu.pl)