

COURSE PLAN

Course title	Statistics for Business and Economics
Aims of the course	Mass phenomenon is one of the basic features of modern civilization. Therefore, it is necessary to scientifically describe, analyze and report such occurrences through different indicators. This is precisely the task of statistics as a scientific discipline. Students are introduced to basic statistical concepts and statistical methods.
Learning outcomes	After passing exam in Statistics, students are expected to be able to: <ul style="list-style-type: none"> • correctly interpret basic statistical concepts; • select and apply appropriate statistical methods in the specific case; • analyse and interpret the results obtained using statistical methods; • follow and understand professional and scientific literature in which results are expressed in statistical terms and symbols; • plan, implement and interpret simple research tasks in which the acquired statistics knowledge is used.
List of topics/name of the lecturer (including visiting lecturers and experts where applicable)	
Week I	Statistics, data and statistical thinking.
Week II	Sorting and processing of statistical data, statistical series, and graphics.
Week III	Descriptive statistics: Mean values.
Week IV	Descriptive statistics: measures of variation.
Week V	Probability: basic concepts.
Week VI	Probability: discrete random variables.
Week VII	Probability: continuous random variables.
Week VIII	Midterm. April 8, 2025
Week IX	Corrective Midterm. April 15, 2025

Week X	Sampling distributions.
Week XI	Inferences based on a single sample: estimation with confidence intervals.
Week XII	Inferences based on a single sample: tests of hypothesis.
Week XIII	Analysis of variance.
Week XIV	Simple linear regression. Correlation analysis.
Week XV	Time series: components, trend, MA; Index numbers.
Mandatory readings	James. T. McClave, Benson G.B., Sincich T., <i>Statistics for Business and Economics</i> , 14th Edition, Published by Pearson (July 13, 2021)©2022
Semestral assessment	2 in-class mini-tests, group mini-research project and individual presentations (4x5 points=20 points) Colloquium 40 points and Final exam 40 points. Grading system: 51-60=E; 61-70=D; 71-80=C; 81-90=B; 91-100=A.
List of lecturers (academic)	Prof. Dr. Vesna K. Karadžić, Ass. Prof. Dr. Julija Cerović Smolović, Dr Bojan Pejović
Name of the course coordinator	Prof. Dr. Vesna K. Karadžić
List of visiting lecturers (experts), (where applicable)	