

Study programme(s): Mathematics M3				
Level: bachelor				
Course title: Statistics M3-15				
Lecturer: Zagorka Lozanov-Crvenković				
Status: obligatory				
ECTS: 7				
Requirements: none				
Learning objectives Acquiring basic knowledge and skills in Statistics.				
Learning outcomes Students will learn the basic notions in Statistics, as well as to solve practical problems using statistical software.				
Syllabus <i>Theoretical instruction</i> Population, sample. Sample choice. Statistics and their distributions. Point and interval estimation. Methods of parameter estimation. Hypothesis testing. Neyman-Pearson theorem. Significance tests, Regression analysis. <i>Practical instruction</i> Population, sample. Sample choice. Statistics and their distributions. Point and interval estimation. Methods of parameter estimation. Hypothesis testing. Neyman-Pearson theorem. Significance tests, Regression analysis.				
Literature 1. Z. Lozanov-Crvenković, Statistics, Faculty of Science Novi Sad, 2012. 2. Z. Lozanov-Crvenković, D. Rajter Ćirić, Solved problems in Probability and Statistics, Faculty of Science Novi Sad, 1999. 3. B.Č. Popović, Mathematical Statistics and statistical modelling, Faculty of Science, Niš, 202				
Weekly teaching load				Other: 0
Lectures: 3	Exercises: 3	Other forms of teaching: 0	Student research: 0	
Teaching methodology Lectures are presented using classical teaching methods and supported by beamer presentations. Exercises are used to practise and analyse typical problems and their solutions. Students are encouraged to use computers and statistical software: Excel, Statistica, Mathematica, SPSS.				
Grading (maximum number of points 100)				
Pre-exam obligations	points	Final exam	points	
Colloquia	50	Oral exam	50	