Incoming student mobility

Name of UNIOS University Unit: SCHOOL OF APPLIED MATHEMATICS AND INFORMATICS

COURSES OFFERED IN FOREIGN LANGUAGE
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

Department or Chair within the UNIOS Unit	School of Applied Mathematics and Informatics

Study program	- Undergraduate university study programme in Mathematics and Computer Science - Undergraduate university study programme in Mathematics

Study level	Undergraduate (Bachelor)

Course title	Statistical Practice
Course code	M095
Language of instruction	English
Brief course description	Syllabus. 1. Introduction to statistical software. Descriptive statistics. 2. Statistical inference based on a single sample. (Statistical model. Estimation of mean, variance and cumulative distribution function. Empirical distribution. Quantiles and estimation of quantiles. Confidence intervals for mean, variance and proportion. Hypothesis testing for mean, variance, proportions and distributions.) 3. Statistical inference based on two samples. (Statistical model for paired and unpaired samples. Testing differences between distributions. Independence tests based on contingency tables. Measures of correlation and association. Testing hypothesis about correlation and association. Simple linear regression.) 4. Statistical inference based on more than two samples. (ANOVA. Multivariate regression.)
Form of teaching	Consultative teaching.
Form of assessment	Attending lectures, exercises and seminars is required. Statistical software if used for exercises (e.g. R). After the completion of lectures, exercises, seminars and a finished seminar work, students take an exam in a written and oral form. Acceptable results achieved in mid-term exams throughout the semester replace the written part of the exam. Students can improve their final grade by actively

	solving homework problems.
Number of ECTS	6
Class hours per week	1+2+1
Minimum number of students	
Period of realization	Summer semester
Lecturer	Ivan Papić