Study programmes: Bachelor studies – Mathematics

Course name: Statistical software 4

Lecturers: Marko Obradović, Bojana Milošević

Status: Compulsory

ECTS: 4

Attendance prerequisites: Mathematical Statistics

Course aims: Learning linear statistical inference with R.

Course outcome: Upon completing the course, a student is qualified for data analysis in R, in particular linear and related regression models

Course content:

Regression analysis. Regression models. Univariate and multivariate models. Polynomial regression. Some non-linear models and linearization. Inference on model parameters.

Literature:

1. Joaquim P. Marques de Sá: *Applied Statistics Using SPSS, STATISTICA, MATLAB and R*
2. R.J. Larsen, M.L. Marx, *An Introduction to Mathematical Statistics and Its Applications*, Pearson Education, N. Jersey, 2006

Number of hours: 3	**Lectures: 0**	**Tutorials: 2**	**Laboratory: 1**	**Research: -**

Teaching and learning methods: Tutorials / Lectures / Exercises

Assessment (maximal 100 points)

Course assignments	**points**	**Final exam**	**points**
Lectures	-	Written exam	-
Exercises / Tutorials	20	Oral exam	30
Colloquia	-	Written-oral exam	
Essay / Project	50		