

Study programmes: Bachelor studies – Mathematics			
Course name: Analysis of variance			
Lecturers: Jelena Jocković, Bojana Milošević, Marko Obradović			
Status: Optional			
ECTS: 5			
Attendance prerequisites: Mathematical Statistics			
Course aims: Acquiring general and specific knowledge concerning the theory of least squares and analysis of variance			
Course outcome: Upon completing the course, a student is qualified for applying least squares method and analysis of variance			
Content: The theory of least squares. Tests of hypothesis and interval estimation. Problem of single sample. One-way classified data. Two-way classified data. A general model for two-way data and variance components. The theory and application of statistical regression. The general problem of least squares with two sets of parameters.			
Literature:			
1. С.Р. Рао: <i>Линейные статистические методы и их применения</i> , Наука, Москва, 1968.			
2. R.J. Larsen, M.L. Marx: <i>An Introduction to Mathematical Statistics and Its Applications</i> , Pearson Education, N. Jersey, 2006.			
Number of hours: 5		Lectures: 3	
Tutorials: 2			
Teaching and learning methods: Tutorials / Lectures / Exercises			
Assessment (maximal 100 points)			
Course assignments	points	Final exam	Points
Lectures	10	Written exam	50
Exercises / Tutorials	-	Oral exam	20
Colloquia	10	Written-oral exam	
Essay / Project	10		