

<b>Course title: Selected Chapters of Probability and statistic-didactical approach</b>			
<b>Lecturers: Zagorka Lozanov-Crvrnković, Danijela Ćirić-Rajter</b>			
<b>Status:</b> obligatory/elective <b>elective</b>			
<b>ECTS:</b> 15			
<b>Requirements:</b> none			
<b>Learning objectives</b> The aim of course is to introduce the students to the methodical techniques of teaching Probability and statistics			
<b>Learning outcomes</b> After taking the course, the student should have developed:			
<b>General capabilities:</b> basic knowledge of this field, following the literature, analysis of various solutions and the choice of most adequate solution, application in practice.			
<b>Subject-specific capabilities:</b> Student will be able for the research in science and mathematics education.			
<b>Syllabus</b> <i>Theoretical instruction</i> Definition of probability, conditional probability. Bayes formula. Random variables, distribution function, probability distribution function. Numerical characteristics of random variables. Basic notions in Statistics, population, random sample. Testing statistical <i>Students research</i> Following the theoretical instructions, students will develop the ability to apply different didactical methods and approaches to different contents of probability and statistics..			
<b>Weekly teaching load</b>			Other:
<b>Suggested literature:</b> 1) Н.А. Ширјаев, Вјеројатност, Наука, 1980. 2) П. Младеновић, Вероватноћа и статистика, Веста, Београд 3) З. Лозанов-Црвенковић, Д. Рајтер Збирка решених задатака из вероватноће и статистике, ПМФ, Нови Сад 1999. 4) М. Меркле, П. Васић Вероватноћа и статистика, Електротехнички факултет, Београд, 1998 5) D. R. Cox, Christl A. Donnelly, Principles of Applied Statistics, Cambridge University Press, 2011			
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5
<b>Teaching methodology</b> Lectures, solving problems with and without the use of computers. Laboratory exercises and colloquiums in the PC lab.			
<b>Grading (maximal number of points 100)</b>			
<b>Pre-exam requirements</b>	points	<b>Final exam</b>	points
Activities during lectures		Oral exam	<b>50</b>
Practical teaching			
Colloquia	<b>50</b>		
Seminar papers			