

<b>Study programmes:</b> PhD studies – Mathematics			
<b>Course name:</b> 3M521 - Regularization Methods			
<b>Lecturers:</b> Milan Dražić			
<b>Status:</b> Optional			
<b>ECTS:</b> 9			
<b>Attendance prerequisites:</b> None			
<b>Course aims:</b> Introduction to the regularization methods and training for creative work.			
<b>Course outcome:</b> After completing this course, the student has fundamental knowledge about the regularization methods. He is trained to solve problems from practice using numerical software packages.			
<b>Course content:</b> Ill-posed problems, stabilizer, normal solution. Several regularization methods. Approximation of optimization problem and regularization of approximated problem.			
<b>Literature:</b> A. Tihonov, V. Arsenin, <i>Metody resheniya nekorrektnyh zadach</i> , Nauka, Moskva 1979. Vasil'ev F.P., <i>Metody resheniya ekstremal'nih zadach</i> , Nauka, Moskva, 1981.			
<b>Number of hours:</b> 10	<b>Lectures:</b> 4	<b>Tutorials:</b> 6	
<b>Teaching and learning methods:</b> Frontal			
<b>Assessment (maximal 100 points)</b>			
<b>Course assignments</b>	points	<b>Final exam</b>	points
Lectures	-	Written exam	-
Exercises / Tutorials	-	Oral exam	70
Colloquia	-	Written-oral exam	-
Essay / Project	30		