

<b>Study programmes:</b> MASTER STUDIES - Mathematics			
<b>Course name:</b> Principles of teaching mathematics			
<b>Lecturers:</b> Miodrag Mateljević			
<b>Status:</b> Optional			
<b>ECTS:</b> 8			
<b>Attendance prerequisites:</b> -			
<b>Course aims:</b> Acquisition of didactical knowledge and skills necessary for quality work in the classroom and further improvement of the profession.			
<b>Course outcome:</b> Upon completion of the course the students improved their didactic knowledge.			
<b>Course content:</b>			
Aims of teaching mathematics			
Teaching of mathematics in developed school systems			
Principles of training			
<ul style="list-style-type: none"> <li>• active learning</li> <li>• the best stimulus</li> <li>• related phases</li> </ul>			
Problem solving			
<ul style="list-style-type: none"> <li>• problem-oriented teaching</li> <li>• characteristic and examples of mathematical problems in real-world contexts</li> <li>• problem solving strategies</li> <li>• exploratory work in classroom – organization of mini projects</li> </ul>			
Developing positive attitudes towards mathematics			
Assessment			
<b>Literature:</b>			
1. Božić, M, Pavlović-Babić, D, Anić, I, Radak, V, Metodički praktikum za nastavnike matematike (u pripremi)			
2. Polya, G, Mathematical Discovery, On understanding, learning and teaching problem solving, John Wiley & Sons, New York (etc.), 1962			
3. Marjanović, M, Metodika matematike – 1. deo, Učiteljski fakultet, Beograd, 1996.			
4. Marjanović, M, Metodika matematike – 2. deo, Učiteljski fakultet, Beograd, 1996.			
5. Schoenfeld, A. H. (Ed.), Assessing Mathematical proficiency, Cambridge University Press, 2007			
<b>Number of hours:</b> 7	<b>Lectures:</b> 3	<b>Tutorials:</b> 2	<b>Laboratory:</b> -
<b>Research:</b> 2			
<b>Teaching and learning methods:</b> Frontal / Tutorial			
<b>Assessment (maximal 100 points)</b>			
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Lectures	10	Written exam	-
Exercises / Tutorials	30	Oral exam	30
Colloquia	-	Written-oral exam	-
Essay / Project	30		