

Study program : Class teacher Education				
Type and level of studies: Bachelor studies				
Course unit: Mathematical Creativity and Giftedness				
Teacher in charge : dr Aleksandra Mihajlović, Associate Professor				
Language of instruction (<i>English or other foreign language</i>): English				
ECTS: 5				
Prerequisites:				
Semester (<i>Winter Semester or Summer Semester</i>)				
Course unit objective				
introducing students to the concept and different theories of mathematical giftedness and mathematical creativity, to different ways of working with mathematically gifted students, to different ways of stimulating and fostering creativity and mathematical abilities among both gifted and non-gifted students.				
Learning outcomes of Course unit				
Upon completion of this course, students will be able to: prepare, plan and implement effective teaching and learning strategies in work with mathematically gifted primary students, use effective strategies and choose adequate content in order to stimulate and foster creativity among all primary students				
Course unit contents				
<i>Theoretical and practical classes</i>				
Part 1 (3 credits): Mathematical giftedness – concept and definitions. Identification and work with mathematically gifted students. Mathematical abilities. Mathematical creativity – concept, definitions and theories.				
Part 2 (2 credits): Strategies of fostering and developing mathematical creativity. Mathematical problems (standard and non-standard problems, open-ended and closed problems). Mathematical competitions.				
Literature				
Teaching student-centred mathematics : grades 3-5 / John A. Van de Wale ; Louann H. Lovin				
Teaching student-centred mathematics : grades K-3 / John A. Van de Walle ; LouAnn H. Lovin				
Articles:				
Mirko Dejić Aleksandra Mihajlović , (2011): <i>Supporting mathematically gifted students in Serbia</i> , Proceedings of The 6th International Conference on Creativity in Mathematics Education and the Education of Gifted Students, University of Latvia, Riga, Latvia; Angel Kanchev University of Ruse, Ruse, Bulgaria				
Aleksandra Mihajlović , Milana Egerić, Mirko Dejić (2008), <i>Mathematical Abilities: Identification and Development</i> , "Математика. Компьютер. Образование". Сб. трудов XV международной конференции. Под общей редакцией Г.Ю. Ризниченко Ижевск: Научно-издательский центр "Регулярная и хаотическая динамика", Том 1, Москва-Ижевск				
Materials from lectures				
Number of active teaching hours				Other classes
Lectures (including seminars and tutorials): 8x2hrs	Practice:	Other forms of classes:	Independent work: 40hrs	
Teaching methods				
8 x 2hrs Lectures (including seminars and tutorials), Independent Study				
Examination methods (maximum 100 points)				
Exam prerequisites	No. of points:	Final exam	No. of points:	
Student's activity during lectures		oral examination		

practical classes/tests		written examination	
2 x 1 word projects	Total Marks 100	.....
Project			
Other			
Grading system			
Grade	No. of points	Description	
10	....	Excellent	
9	....	Exceptionally good	
8	....	Very good	
7	....	Good	
6	....	Passing	
5	....	Failing	