

Study program: Class Teacher Education			
Type and level of studies: Bachelor studies, first cycle degree program			
Course unit: Mathematical creativity and giftedness			
Teacher in charge: Aleksandra Mihajlovic, PhD, associate professor			
Language of instruction: English			
ECTS credits and course status: 5 ECTS, elective			
Prerequisites: /			
Semester: Summer semester (VIII)			
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> <i>Part 1 (3 credits):</i> Mathematical giftedness – concept and definitions. Identification and work with mathematically gifted students. Mathematical abilities. Mathematical creativity – concept, definitions and theories. <i>Part 2 (2 credits):</i> 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 <i>Articles:</i> 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): 30	Practice: 15	Other forms of classes:	Independent work:
Teaching methods 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	30	oral examination	
practical classes/tests		written examination	
		2 x 1 word projects	70
Project			
Other			

Grading system		
Grade	Number of points	Description
10	91-100	Excellent
9	81-90	Exceptionally good
8	71-80	Very good
7	61-70	Good
6	51-60	Passing
5	≤50	Failing