

Study program: Class Teacher Education				
Type and level of studies: Master studies, second cycle degree program				
Course unit: Contemporary Approaches in Mathematics Teaching				
Teacher in charge: Aleksandra Mihajlovic, PhD, associate professor				
Language of instruction: English				
ECTS credits and course status: 6 ECTS, elective				
Prerequisites: /				
Semester: Winter semester (I)				
Course unit objective				
To enhance students knowledge and understanding of innovative teaching approaches and current research and implications for classroom practice; to train students to be able to transform mathematical content through use of various contemporary teaching methods.				
Learning outcomes of Course unit				
Upon completion of this course, students will: develop ways of exploring mathematics teaching and learning, will be able to use and creatively integrate different teaching approaches, will develop their research skills.				
Course unit contents				
<i>Theoretical and practical classes</i>				
Part 1 (4 credits): Contemporary teaching approaches and current researches in mathematics teaching and learning. Concept and characteristics of some teaching approaches and methods: problem oriented instruction, differentiated instruction, programmed instruction, heuristics method of teaching, open-ended approach, interdisciplinary teaching, project-based learning, inquiry-based learning.				
Part 2 (2 credits): Comparative analyses of mathematical education in different countries.				
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				
Materials from lectures				
Number of active teaching hours				Other classes: /
Lectures (including tutorials): 30	Seminars: 30	Other forms of classes: /	Independent work: Independent study	
Teaching methods				
6 x 2hrs Lectures (including tutorials, class is a combination of theoretical and practical activities), 2 x 2hrs Seminars, 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		
Project		2x1 word project	100	
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