


Course: Contemporary Approaches to Teaching Mathematics	
Type and level of studies: MAS	
Study program: Class Teacher Education	
Teacher(s): Aleksandra Mihajlović	
Language of instruction: English	
ECTS: 5	
Prerequisites: /	
Semester: Winter semester	

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 the use of various contemporary teaching methods.

Learning outcomes
 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
Theoretical and practical classes
 Part 1 (4 credits): Contemporary teaching approaches and current research 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: 30	Seminar: 30	Independent work:	

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	
Seminars/homework		tests	
Project	50 + 50		
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