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| **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** *Theoretical and practical classes*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. LovinTeaching student-centred mathematics : grades K-3 / John A. Van de Walle ; LouAnn H. LovinMaterials 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 |  |  |  |

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| **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 |