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| Study program : Class teacher Education | | | | | | |
| Type and level of studies: Master Studies | | | | | | |
| **Course unit: Contemporary Approaches in Mathematics Teaching** | | | | | | |
| **Teacher in charge : dr Aleksandra Mihajlović, Associate Professor** | | | | | | |
| Language of instruction (*English or other foreign language*): English | | | | | | |
| ECTS: 6 | | | | | | |
| Prerequisites: | | | | | | |
| Semester *(Winter Semester or Summer 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 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. 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):  7x2hrs | Seminars:  2x2hrs | Other forms of classes: | | Independent work: 60hrs | |
| **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 | |  |
| 2x1 word project | | 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 | |