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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. 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):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 |