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| Study program : Class teacher Education |
| Type and level of studies: Bachelor studies |
| **Course unit: Methodology of Teaching Mathematics (lower primary)** |
| **Teacher in charge : dr Aleksandra Mihajlović, Associate Professor** |
| Language of instruction (*English or other foreign language*): English |
| ECTS: 5 |
| Prerequisites: |
| Semester *(Winter Semester or Summer Semester)* |
| **Course unit objective**introducing student to classroom methodology, building students skills and abilities to teach mathematics in grades one to four of primary school; building students skills and abilities to organize and manage classroom, preparing students for permanent professional development |
| **Learning outcomes of Course unit**Upon completion of this course, students will be able to: know and understand how children learn primary mathematics and how they construct mathematical knowledge; know the content and how to teach it, plan and implement effective teaching and learning. |
| **Course unit contents** *Theoretical and practical classes****Part 1 (1 credit):*** Introduction to Methodology of teaching primary mathematics. Psychological and logical aspects of mathematics teaching (mathematical thinking, reasoning). Developing interest and increasing motivation for learning mathematics in children.***Part 2 (2 credits):*** Methodological approach to teaching primary mathematics contents: students will study how to teach contents about sets, natural numbers and arithmetical operations, spatial and number relations, fractions, equations and inequalities, geometry and measures.***Part 3 (2 credits):*** Problem solving (direct and indirect methods and strategies of solving problems). Lesson planning in primary mathematics teaching. Some organizational aspects of primary mathematics teaching. One school visit. |
| **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 and seminars):12x2hrs | Practice: | Other forms of classes:  | Independent work: 60 hrs |
| **Teaching methods** 12 x 2hrs Lectures (including tutorials and seminars, class is a combination of theoretical and practical activities), 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 projects | 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 |