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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. 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 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 | |