|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Study program:** Class Teacher Education | | | | |
| **Type and level of studies:** Bachelor studies, first cycle degree program | | | | |
| **Course unit:** Methodology of teaching Mathematics (lower primary) | | | | |
| **Teacher in charge:** Aleksandra Mihajlovic, PhD, associate professor | | | | |
| **Language of instruction:** English | | | | |
| **ECTS:** 5 ECTS, mandatory | | | | |
| **Prerequisites:** / | | | | |
| **Semester:** Winter semester and summer semester (V & VI) | | | | |
| **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):  60 | Practice:  30 | Other forms of classes: | Independent work: 60 hrs |
| **Teaching methods**  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 | | 30 | oral examination |  |
| practical classes/tests | |  | written examination |  |
| Project | |  | 2x1 word projects | 70 |
| Other | |  |  |  |

|  |  |  |
| --- | --- | --- |
| **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 |