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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Pedagogical faculty in Vranje | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Primary School Teaching | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | **Teaching Primary School Mathematics (Didactic of Mathematics)** | | |
| Level of study | | | | ☒ Bachelor ☐ Master’s ☐ Doctoral | | |
| Type of course | | | | ☒ Obligatory ☐ Elective | | |
| Semester | | | | ☒ Autumn ☒ Spring | | |
| Year of study | | | | III | | |
| Number of ECTS allocated | | | | 5 | | |
| Name of lecturer/lecturers | | | | Nela Malinović-Jovanović, associate professor | | |
| Teaching mode | | | | ☒ Lectures ☒ Group tutorials ☐ Individual tutorials  ☐Laboratory work ☒ Project work ☐ Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| ***Acquiring knowledge necessary for understanding:*** *psychologicaly-logical basis and didactically-methodical components of teaching mathematics; metods of teaching contents of initial teaching mathematics; diferent models of lesson plans for teaching mathematics.*  ***By the and of the course students are expected to have following knowledge, skills and understanding:*** *comprehend the process of constructing and forming mathematical concepts; be familiar with the aims and objectives of mathematics education; know mental development and characteristics of particular stages of child development and comprehend their importance for constructing and forming mathematical concepts in initial mathematics teaching; comprehend the teaching principles and basic forms of mathematics conclusions; know methods for instruction and could apply them in the initial mathematics teaching; comprehend the essence, specifics and the legality of initial teaching mathematics process; overcome the forms of contemporary organization of mathematics; analyze the mathematics subject in the first four grade of primary school as a methodical transformation of the mathematics content; apply the methodology of processing content in the initial mathematics teaching; aplly acquired knowledge through writing lesson plans for implementation of initial mathematics teaching contents; connect mathematics and other subjects related contents; devise materials to motivate students for learning mathematic; systematize planned teaching contents and are trained for the improvement of initial mathematics teaching educational practice.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| 1. **Mathematics as a scientific discipline, as a teaching subject, teaching primary school mathematic** 2. **Concept related cognitive process; Definition of the concept; Mathematical thinking and some thinking activity in cognitive process** 3. **Didacticaly-methodical basis of teaching mathematics** 4. **Methods of teaching sets and some elemantary concepts of set theory** 5. **Constructing and forming numbers up to 10; Addition and substraction numbers up to 10** 6. **Forming numbers in the range 10 to 100; Addition and substraction numbers in hundreds; Forming concept of multiplication and division; Multiplication and division tables; Multiplication and division numbers in hundreds** 7. **Forming numbers in the range 100 to 1000; Mental and written metods of computation with all four operations in thousands** 8. **Forming numbers greather than 1000; Addition and substraction in the set of natural numbers; Multiplication and division in the set of natural numbers** 9. **Methods of teaching relations, equations and inequations** 10. **Methods of teaching fractions** 11. **Methods of teaching geometric contents** 12. **Methods of teaching measures and measurement** | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| ☒ Serbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)  ☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| **ASSESSMENT METHODS AND CRITERIA** | | | | | | |
| **Pre exam duties** | **Points** | | **Final exam** | | | **points** |
| **Activity during lectures** | **5** | | **Written examination** | | | **50\*** |
| **Practical teaching** | **15** | | **Oral examination** | | | **30** |
| **Teaching colloquia** | **50\*** | | **OVERALL SUM** | | | **100** |
| **\*Passing the teaching colloquia released students of the written examination** | | | | | | |