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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**

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| **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** |