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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 | **Selected Topics in Teaching Primary School Mathematics** |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  |  ☐ Autumn ☒Spring |
| Year of study  | 1st |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Prof. dr 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: innovative teaching methods; contemporary taxonomies of aims and objectives of teaching; methodology of criterion-referenced tests designing; planning of teaching and global and operational lesson plans developing; methods of theoretical analysis in educational research; methodology and components of educational research in mathematics education. By the and of the course students are expected to have following knowledge, skills and understanding: apply acquiring knowledge about innovative teaching methods in didactically-methodical implementation of initial mathematics teaching; apply acquiring knowledge about contemporary taxonomies of aims and objectives of teaching in cognitive domain on designing criterion tests; planning teaching process and making global and operational lesson plans; analyze mathematics curriculum and textbooks for the first four grades of primary school; organize, implement and interpret the results of the educational research guided by the needs of mathematics practices and Didactics of Mathematics (Mathematics Education Research) as a scientific discipline with respect to the basic methodological standards. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| 1. Innovative teaching methods (Individualized teaching, exemplary teaching, interactive teaching, problem solving, contemporary traditional subject-centered teaching)
2. Characteristics of a good textbook
3. Planning teaching process and designing global and operational lesson plans
4. Mathematics curriculum in primary school and educational standards for the and of the first cycle of compulsory education
5. Method of theoretical analysis in educational research
6. Theoretical analysis of mathematics curriculum and textbooks for the first four grades of primary school
7. Contemporary taxonomies of aims and objectives of teaching
8. Criterion-referenced tests
9. Taxonomy of aims and objectives of teaching math and educational standards in function of designing criterion-referenced tests for assessing the level of student achievement
10. Components of educational research in teaching mathematics
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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** |
| **Analysis of mathematics curriculum and textbooks** | **10** | **Written examination** | **20** |
| **Designing global and operational lesson plans** | **10** | **Oral examination** | **10** |
| **Innovative teaching methods and models for performing initial mathematics teaching** | **20** |  |  |
| **Construction of criterion-referenced tests** | **10** |  |  |
| **Research report of mathematics teaching practice** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |