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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Pedagogical faculty in Vranje | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Technical Education and Informatics | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | Developmental Teaching of Informatics | | |
| Level of study | | | | ☐Bachelor ☒ Master’s ☐ Doctoral | | |
| Type of course | | | | ☐ Obligatory ☒ Elective | | |
| Semester | | | | ☐ Autumn ☒Spring | | |
| Year of study | | | | Fifth | | |
| Number of ECTS allocated | | | | 7 | | |
| 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; informatics curriculum and educational standards for the end of compulsory education; the role of taxonomy and educational standards in the function of constructing criterion-referenced test for examination of student achievement levels; methodology and components of educational research in informatics 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 informatics teaching from 5. to 8. grade of primary school; 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 from 5. to 8. grades of primary school; organize, implement and interpret the results of the educational research guided by the needs of informatics practices with respect to the basic methodological standards.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| 1. **Innovative teaching methods** 2. **Individualized teaching (individual teacher instructions, teaching on three levels of complexity, programmed teaching, problem solving, contemporary traditional subject-centered teaching, teaching by discovering)** 3. **Developmental teaching** 4. **Interactive teaching** 5. **Exemplary teaching and Contemporary traditional subject-centered teaching** 6. **Project teaching and Modular teaching** 7. **Computer-informative teaching** 8. **Theoretical analysis of informatics curriculum and textbooks from 5. to 8. grades of primary school** 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 informatics** | | | | | | |
| **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** |
| **Innovative teaching methods and models for performing informatics teaching** | **20** | | **Written examination** | | | **20** |
| **Analysis of informatics curriculum and textbooks** | **10** | | **Oral examination** | | | **10** |
| **Construction of criterion-referenced tests** | **10** | |  | | |  |
| **Research report of informatics teaching practice** | **30** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |