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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**
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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** |
| **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** |