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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 | | | | Information systems in education | | |
| Level of study | | | | ☐Bachelor ☒ Master’s ☐ Doctoral | | |
| Type of course | | | | ☒ Obligatory ☐ Elective | | |
| Semester | | | | ☐ Autumn ☒Spring | | |
| Year of study | | | | Second | | |
| Number of ECTS allocated | | | | 7 | | |
| Name of lecturer/lecturers | | | | Dragica Ilić | | |
| Teaching mode | | | | ☒Lectures ☐Group tutorials ☐ Individual tutorials  ☒Laboratory work ☐ Project work ☒ Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Introduction to the processes of development and application of modern information systems in schools, mastering the methods, techniques, technologies, tools, and principles of object-oriented design, development, implementation, maintenance of information systems. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Introduction to information systems, software development and system documentation, system configuration, the basics of object-oriented development, client server and distributed architecture of information systems, basic principles, the layers ISO / OSI architecture of distributed software components, multi-layer software component architecture, design principles, XML technology for distributed components of information systems, Data Warehouse - a complex database, design the seed stars and snowflakes seed, generating queries and design, Data Mining System. | | | | | | |
| **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** | **10** | | **Written examination** | | | **40\*** |
| **Practical teaching** | **10** | | **Oral examination** | | | **40** |
| **Teaching colloquia** | **40\*** | | **OVERALL SUM** | | | **100** |
| **\* Passing the teaching colloquia released students of the written examination** | | | | | | |