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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** |