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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 | | | | Programming languages | | |
| Level of study | | | | ☐Bachelor ☒ Master’s ☐ Doctoral | | |
| Type of course | | | | ☒ Obligatory☐ Elective | | |
| Semester | | | | ☐ Autumn ☒Spring | | |
| Year of study | | | | Third | | |
| Number of ECTS allocated | | | | 7 | | |
| Name of lecturer/lecturers | | | | Suzana Stojkovic | | |
| Teaching mode | | | | ☒Lectures ☐Group tutorials ☐ Individual tutorials  ☒Laboratory work ☐ Project work ☐ Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| The goal of this course is to introduce students to concepts of modern programming languages: procedural, object-oriented, declarative and logical. After completing this course, students should acquire theoretical knowledge about different types of languages and to be able to develop applications in C# programming language. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Evolution and clasiffication of programming langages. Comilers and interpeters. A comparative survey of programming language paradigms. Object-oriented languages: classes and objects, class definition in programming language C#, c lass members access, static class members, constructors, destructors, operator overloading, inheritance, polymorphism, abstract classes and interfaces, exception handling.Event-driven programming: GUI elements, delegates, events and event handlers.Declarative and logical programming languages. | | | | | | |
| **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** |  | | **Written examination (instead colloquia)** | | | **40** |
| **Practical teaching** | **20** | | **Oral examination** | | | **40** |
| **Teaching colloquia** | **40** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |