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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** |