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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | **Faculty of Philosophy** |
| **GENERAL INFORMATION** |
| Study program  | **Philosophy** |
| Study Module (if applicable) |  |
| Course title | Logic II |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory☐ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | II |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Goran Ružić |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *The aim of this course is to introduce students to syntax and semantics of the predicate logic, as well as to meta-theory of both propositional and predicate logic.*  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| These are the main topics of the course:The syntax of the predicate logic language. Relational and operational structures. Translating from the natural language to the language of the predicate logic, and vice versa. Derivations in the natural deduction. Axiomatic systems. Meta-theorems of the propositional logic: weak and strong completeness, truth-functional completeness. Meta-theorems of the predicate logic. Löwenheim–Skolem theorem, compactness theorem. |
| **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** |  |
| **Practical teaching** | 20 | **Oral examination** | 30 |
| **Teaching colloquia** | 50 | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |