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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Electronic Engineering |
| **GENERAL INFORMATION** |
| Study program  | **Computing and Informatics** |
| Study Module (if applicable) | Software Engineering |
| Course title | Requirements Engineering |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | 1 |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Dejan D. Rančić, Aleksandar Lj. Milosavljević |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [x]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Introducing students to the field of requirements engineering and in terms of principles of requirements management as well as the basic requirements engineering models.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Introduction and history of the field of requirements engineering. Requirements management. Functional and non-functional requirements. Problems in requirements specification. The use of standards in the requirements specification. Spiral model of requirements management process. Requirements elicitation. Requirements analysis. Requirements validation. Types of requirements. Requirements characteristics. False requirements. Methods for requirements engineering. DFD diagrams. Relational methods. Object-oriented methods. Formal methods. Methods based on the behavior of the system. U se-case specification. Viewpoint-based methods. Software tools for requirements engineering.** |
| **LANGUAGE OF INSTRUCTION** |
| [x] 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** |  |
| **Practical teaching** | **50** | **Oral examination** | **40** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |