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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Electronic Engineering |
| **GENERAL INFORMATION** |
| Study program  | Electrical Engineering and Computing |
| Study Module (if applicable) | Common |
| Course title | Introduction to Computing |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☒ Autumn ☐ Spring |
| Year of study  | First  |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Vučković V. Vladan, Stojković R. Suzana, Stojanović M. Natalija |
| Teaching mode |  ☒Lectures ☒Group tutorials ☐ Individual tutorials ☐Laboratory work ☐Project work ☐ Seminar ☐Distance learning ☐Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring the knowledge about basic concepts and principles in computer science and engineering in accordance with IEEE/ACM Computing Curricula. Theoretical and practical knowledge about principles and methods of computer functioning, both hardware and software. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Numeral systems and computer data representation. Boolean algebra and functions. Combinatorial switching networks. Combinatorial switching networks analysis and design. Standard combinatorial modules. Sequential switching networks. Standard sequential modules. Computer architecture. Organisation of central processing unit (CPU) and elements of assembly language. Input-output devices. Computer software - system and application software and software development. Computer networks, Internet and Web. |
| **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** | **30** |
| **Practical teaching** |  | **Oral examination** |  |
| **Teaching colloquia** | **60** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |