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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Science and Mathematics |
| **GENERAL INFORMATION** |
| Study program  | **Computer Science** |
| Study Module (if applicable) |  |
| Course title | Introduction to Programming |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | I |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | Ivan Stanimirović / Dejan Kolundžija |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *A computer goes through a set of steps whose purpose is to achieve something. These steps are instructed to the computer by computer programs. Essentially, computer programming is the process by which these programs are designed and implemented. The tutorials include information on introductory computer programming topics such as what computer programming is, the advantages of learning the subject, common misconceptions about the subject, computer programming concepts, the different types of languages, what you need to write programs, and more.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| * Help students (who may or may not intend to major in computer science) to feel justifiably confident of their ability to write small programs.
* Map scientific problems into computational frameworks.
* Position students so that they can compete for jobs by providing competence and confidence in computational problem solving.
* Prepare college freshmen and sophomores who have no prior programming experience or knowledge of computer science for an easier entry into computer science or electrical engineering majors.
* Prepare students from other majors to make profitable use of computational methods in their chosen field.
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| **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** | **30** |
| **Practical teaching** | **0** | **Oral examination** | **40** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |