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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Electronic Engineering |
| **GENERAL INFORMATION** |
| Study program  | Computing and Informatics |
| Study Module (if applicable) | Information systems |
| Course title | Intelligent Information Systems |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | 1 |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Tošić B. Milorad |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [x]  Project work [ ]  Seminar [x] Distance learning [x]  Blended learning [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Gaining practical programming skills, theoretical knowledge and systematic approach required for thedesign, implementation and operation of systems in which information technologies, computers, theInternet, and humans act in concert to achieve results that are characterized as intelligent.Students are able to identify areas of usage, specific problems and relevant theoretical conceptsneeded to solve them, possess practical programming skills needed to implement specific examples ofusage. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Common conceptual foundations: data models, information and knowledge, the basic technologies(Internet, databases, artificial intelligence, information retrieval), business aspects, mathematicalbasics. Intelligent databases, deductive and active databases, intelligent information retrieval. Weband Intelligent Information Systems: Web 2.0, Semantic Web, Social Networks, CollaborativeSystems, and expandable network of small diameter. Programming at the level of the end user.Architecture of intelligent information systems: service-oriented and multi-agent architectures.Information retrival and navigation: Web agents, data collection from the web "crawling" IntelligentWeb Tools, Web search engines and issue of semantics. Information management, information flow,integration and semistructured information resources, XML and RDF based information presentations. |
| **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** | **25** | **Oral examination** | **40** |
| **Teaching colloquia** | **25** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |