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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) | Information systems |
| Course title | Electronic business |
| 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 | Dragan H. Stojanović |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [x] Laboratory work [x]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Acquiring knowledge, methods and technologies required for design and implementation of software systems for electronic business. Theoretical and practical knowledge about principles, methods, technologies and software applications intended for electronic business.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Introduction to e-business. Definition, concepts and applications o e-business and e-commerce. Business strategies, models and processes. Information technologies and technological infrastructure for e-business. XML Web technologies. E-business modelling. Reliability and quality of e-business services. E-business application patterns. Application servers, platforms and middleware in e-business systems. Component based development of e-business software. Management of legacy applications. Enterprise application integration. E-business integration. Web services and service-oriented architectures in e-business. E-business protocols and standards.****Practical work on design and implementation of e-business systems based on implementation of design and architecture patterns of e-business applications using commercial and open-source software components, frameworks and platforms. Implementation of Web-based e-business application using J2EE platform. Implementation of e-business application integration and management of legacy applications using commercial and open-source software components, middleware platforms and frameworks. Implementation and integration of Web service for e-business system integration.**  |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [ ]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[x] 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** | **40** |
| **Practical teaching** | **10** | **Oral examination** |  |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |