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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 | Information technologies for development of e-Government 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 | Leonid Stoimenov |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [x]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Course objective: Introducing students with basic e-Government concepts and technologies needed for designing and implementation of different aspects of such systems.**Theoretical and practical knowledge about concepts, design and implementation of basic e-Government aspects.*  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Introduction to basic e-Government concepts. Brief review of historical development of e-Government. Analysis of key e-Government aspects: data, e-Services, applications, infrastructure. Data management in e-Government systems: models and databases, data mining techniques, ontologies, semantic analysis. Open data and open data platforms. Integration of information: service oriented architecture (SOA), Web services. Development of back-office and front-office applications. Timely issues of e-Government infrastructure development: cloud technologies. GIS in e-Government: Web Mapping tools for online analysis of complex geographical data.  |
| **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** |  | **Written examination** |  |
| **Practical teaching** | 30 | **Oral examination** | 40 |
| **Teaching colloquia** | 30 | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |