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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  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | 1 | | |
| Number of ECTS allocated | | | | 4 | | |
| Name of lecturer/lecturers | | | | Leonid Stoimenov | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  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** | | | | | | |
| 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** |  | | **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** | | | | | | |