

Study Programme: Computing And Control Engineering			
Course Unit Title: E-Government Technologies			
Course Unit Code: SEM013			
Name of Lecturer(s): Gostojić Stevan, Savić Goran			
Type and Level of Studies: master			
Course Status (compulsory/elective): elective			
Semester (winter/ summer): winter			
Language of instruction: english			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: none			
Course Aims: Gaining practical knowledge of contemporary IC technologies and tools applicable to e-government.			
Learning Outcomes: After successful completion of the course, student has gained practical knowledge for correct selection and application contemporary IC technologies and tools and their applications to all segments of complex software systems supporting e-government.			
Syllabus. (1) web based software architecture for e-government (electronic services, SOA, Web services, interoperability), (2) standards (types, organizations, processes, services, data, W3C Technology Stack), (3) communication technologies (TCP/IP networks, public networks, private networks), (4) hardware technologies (workstations, servers, storage systems), (5) software technologies (system software, infrastructural applicative software, applicative software), (6) data management technologies (XML, NoSQL databases, electronic documents), (7) business process management technologies (tools, repositories), (8) security technologies (cryptography, identity, PKI), (9) virtualization technologies (hardware, software, storage, data, network) and (10) semantic technologies (architectures and processes integration, ontologies and interoperability, portals and user interaction).			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours: 2	Lectures: 3	Practical work: 0	
Teaching Methods: Classes, computer exercises, consultations. Exam is oral. Final grade is formed based on computer exercise grade and oral exam grade			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

