

## Specification for the book of courses

<b>Study program</b>		Electrical Engineering and Computer Science		
<b>Module</b>		Computing and Informatics		
<b>Type and level of studies</b>		Undergraduate Academic Studies		
<b>The name of the course</b>		Information Systems		
<b>Lecturer (for lectures)</b>		Tošić B. Milorad, Nejković M. Valentina		
<b>Lecturer/associate (for exercises)</b>		Nejković M. Valentina, Petrović N. Nenad		
<b>Lecturer/associate (for OFE)</b>		Nejković M. Valentina, Petrović N. Nenad		
<b>Number of ECTS</b>	5	<b>Course status (obligatory/elective)</b>	Obligatory	
<b>Prerequisites</b>				
<b>Course objectives</b>	The acquisition of engineering skills and theoretical knowledge as well as the adoption of a systematic approach for improvement of business systems and other systems by information technology implementation.			
<b>Course outcomes</b>	Developed and adopted a systematic approach to the usage of information technologies in order to increase effectiveness of complex systems, such as business systems. Practical skills needed for design, implementation and maintenance of information systems in modern business systems.			
<b>Course outline</b>				
<b>Theoretical teaching</b>	Introduction (A brief overview of the Information Systems usage, Informatics, Information Technologies, Computer Science). Basic Concepts of Information Systems (Information and Communication Technologies as a technical foundation of information systems. Organizational aspects of information systems. Technological aspects of information systems.) Analysis methods and information systems design (feasibility analysis and proposal of a systemic solution. Modeling and system analysis. System design. Implementation System .) Usage areas of information systems for the solutions with available open source code. (DMS - Information Systems for documents management and work, CMS - Information systems for content management, JMS - Java Messaging Service as an example of the communication infrastructure of information systems, information systems at the level of strategy, DSS - Information systems for decision support, information systems to support work with a large number of users - Customer Management systems, Information systems for knowledge management, Collaborative information systems.)			
<b>Practical teaching (exercises, OFE, study and research)</b>				
<b>Textbooks/references</b>				
1	Course book in Serbian			
2	Auxiliary course book in Serbian			
3	Online materials for lectures and exercises			
4	Porter, Michael E. Competitive advantage: Creating and sustaining superior performance. Simon and Schuster, 2008.			
5	Hans-Erik Eriksson and Magnus Penker. 1998. Business Modeling with UML: Business Patterns at Work (1st ed.). John Wiley & Sons, Inc., New York, NY, USA.			
<b>Number of classes of active education per week during semester/trimester/year</b>				
<b>Lectures</b>	<b>Exercises</b>	<b>OFE</b>	<b>Study and research work</b>	<b>Other classes</b>
2	2	1	0	0
<b>Teaching methods</b>	Lectures, Auditorial exercises, Laboratory exercises; Consultations, Independent students' research; students' oral presentation to the selected / given topics; Active students' participation in the classroom using an interactive online assessment tool.			
<b>Grade (maximum number of points 100)</b>				
<b>Pre-exam duties</b>	<b>Points</b>	<b>Final exam</b>	<b>Points</b>	
<b>Activity during lectures</b>	10	<b>Written exam</b>		
<b>Exercises</b>	50	<b>Oral exam</b>	40	
<b>Colloquia</b>				
<b>Projects</b>				