

Study program : Business Economics and Management				
Type and level of studies: Master studies				
<b>Course unit: Management Information Systems</b>				
<b>Teacher in charge : Arsovski R. Zora</b>				
Language of instruction ( <i>English</i> )				
ECTS: 8				
Prerequisites:				
Semester ( <i>Winter Semester or Summer Semester</i> )				
<b>Course unit objective</b>				
The aim of the course is to introduce students to contemporary theoretical and practical aspects of management information systems in the digital economy, information and communication technologies to support management processes and decision-making in the Internet environment, methods, techniques and tools for designing management information systems, concepts of management of e-business and strategic aspects of decision-making in business organizations that are directed towards e-business				
<b>Learning outcomes of Course unit</b>				
<ul style="list-style-type: none"> <li>- Knowledge and understanding of the role, the basis, the concept and structure of management information systems,</li> <li>- Practical knowledge and skills on methods, techniques and software tools for the design of management information system in the digital economy,</li> <li>- Practical knowledge and skills in the development and use of modern application software solutions of management information systems, and improving the system of decision-making in the digital organizations that have supported the concepts of business intelligence, decision support systems, and knowledge management systems,</li> <li>- Knowledge of business development and ICT strategies and solutions, redesigning organizations using information systems,</li> <li>- Using management information systems to manage business changes.</li> </ul>				
<b>Course unit contents</b>				
<b>Module 1: Organizations, Management, and Networked Enterprise</b>				
Business environment and global economics, Managing and decision-making, Information, Human resources, Information and Communication Technologies – the key resources to improve the management and decision-making, global e-commerce and collaboration, enterprise resource planning , business process management, Information systems, Organizations and Strategy, ethical and social aspects of the IS.				
<b>Module 2: Information and Communication Technologies Infrastructure</b>				
<ul style="list-style-type: none"> <li>- ICT infrastructures and platforms in the digital economy</li> <li>- Basis of Business intelligence and Managing data resources,</li> <li>- Telecommunications, Networks, and the Internet,</li> <li>- The Wireless communication,</li> <li>- Security and Control,</li> <li>- Creating a new Internet Business.</li> </ul>				
<b>Module 3: Key Applications of MIS in digital environment</b>				
<ul style="list-style-type: none"> <li>- Business applications and business process integration in e-commerce (Marketing, Development, Planning, Implementation, Procurement, Sales, Finance, etc.),</li> <li>- Supply chain management, CRM systems, Knowledge management in the digital economy,</li> <li>- Enhancing Decision Making for the Digital organizations,</li> <li>- Designing an Enterprise Information Portal.</li> </ul>				
<b>Module 4: Building and Managing Information Systems</b>				
<ul style="list-style-type: none"> <li>- Redesigning the Organization with Information Systems,</li> <li>- Building an information system,</li> <li>- Business Value of Systems and Managing Change,</li> <li>- Managing International Information Systems,</li> <li>- Redesign Business processes – Case Study</li> </ul>				
<b>Literature</b>				
<ol style="list-style-type: none"> <li>1. Laudon K., Laudon J., Management Information Systems: Managing the Digital Firm, Prentice Hall, London, 2012.</li> <li>2. O'Brien James A., Marakas George M., Management Information Systems, Mc Graw-Hill, 2011</li> <li>3. Haag, S., Cummings, M., Amy, P., Management Information Systems for the Information Age, Mc Graw-Hill, 2007 O'Brien M., (2011). <i>Management Information Systems: Global Edition</i>, McGraw-Hill,</li> <li>4. Damij N., Damij T., (2014). Process Management: A Multi-disciplinary Guide to Theory, Modeling, and Methodology, Springer</li> </ol>				
<b>Number of active teaching hours</b>				<b>Other classes</b>
Lectures:	Practice:	Other forms of classes: <i>mentoring system</i>	Independent work:	

<b>Teaching methods</b>			
- Case study, presentation and discussions.			
- Dissemination independent work in solving of research tasks using CASE tools, consultation with the professor			
<b>Examination methods ( maximum 100 points)</b>			
<b>Exam prerequisites</b>	<b>No. of points:</b>	<b>Final exam</b>	<b>No. of points:</b>
Student's activity during lectures		oral examination	50
practical classes/tests		written examination	
Seminars/homework	<b>50</b>	.....	
Project			
Other			
<b>Grading system</b>			
<b>Grade</b>	<b>No. of points</b>	<b>Description</b>	
<b>10</b>	<b>91-100</b>	Excellent	
<b>9</b>	<b>81-90</b>	Exceptionally good	
<b>8</b>	<b>71-80</b>	Very good	
<b>7</b>	<b>61-70</b>	Good	
<b>6</b>	<b>51-60</b>	Passing	
<b>5</b>	<b>0-50</b>	Failing	

**(Table 5.2) Course unit description**