

Study program : Economics				
Type and level of studies: Doctoral studies				
<b>Course unit: Strategic Planning of Information Systems</b>				
<b>Teacher in charge : Arsovski R. Zora, Rejman Petrovic Dragana</b>				
Language of instruction ( <i>English</i> )				
ECTS: 9				
Prerequisites:				
Semester ( <i>Winter Semester or Summer Semester</i> )				
<b>Course unit objective</b>				
The aim of the course is to research and develop ICT concepts for support of strategic management in the digital economy by applying the methods of strategic planning of information systems				
<b>Learning outcomes of Course unit</b>				
<ul style="list-style-type: none"> <li>- Knowledge about strategic perspectives of information systems and ICT, business strategy concepts of information systems,</li> <li>- Knowledge required for defining the strategy of information systems and portfolio of ICT projects,</li> <li>- Knowledge on the implementation of new development paradigms ICT based on the e-process approach,</li> <li>- Knowledge about the reengineering of information systems and the development of ICT leadership.</li> </ul>				
<b>Course unit contents</b>				
<ol style="list-style-type: none"> <li>1. Strategic perspective of information system (IS) and Information and communication technologies (ICT) in the digital economy,</li> <li>2. Concepts of business strategies and implications to IS and ICT strategy,</li> <li>3. Planning and analysis of strategic IS, determination of the IS business strategy,</li> <li>4. Managing a portfolio of ICT projects,</li> <li>5. The concepts of lean and agile development of business application software,</li> <li>6. Strategic management IS/IT strategy for information management, strategies for management information infrastructure,</li> <li>7. Management of strategic information systems and investment in ICT,</li> <li>8. Process approach to the development of knowledge-based organizations, e- business process models,</li> <li>9. Strategic aspects of business intelligence in the digital economy,</li> <li>10. Reengineering of IS Development of ICT leadership.</li> </ol>				
<b>Literature</b>				
<ol style="list-style-type: none"> <li>1. Clarke S., (2007). <i>Information Systems Strategic Management</i>, Routledge,</li> <li>2. Martínez-López F.J. (2014). <i>Handbook of Strategic e-Business Management</i>, Springer,</li> <li>3. Turban E., Leidner, D., McLean, E., Wetherbe, J., (2006). <i>Information Tecnology for Management: Transforming Organizations in the Digital Economy</i>, JohnWiley &amp; Sons,</li> <li>4. Jan vom Brocke, Simons A., (2014). <i>Enterprise Content Management in Information Systems Research - Foundations, Methods and Cases</i>, Springer,</li> <li>5. Leffingwell D., (2011). <i>Agile Software Requirements: Lean Requirements Practices for Teams, Programs, and the Enterprise</i>, Addison-Wesley,</li> <li>6. Kurbel K.E., (2013). <i>Enterprise Resource Planning and Supply Chain Management - Functions, Business Processes and Software for Manufacturing Companies</i>, Springer,</li> <li>7. Nonaka I., Toyama R., Hirata T., (2008). <i>Managing Flow: A Process Theory of the Knowledge-Based Firm</i>, Palgrave MacMillan,</li> <li>8. Devos J., Landeghem H., Deschoolmeester D., (2014). <i>Information Systems for Small and Medium-Sized Enterprises - State of Art of IS Research in SMEs</i>, Springer,</li> <li>9. O'Brien M., (2011). <i>Management Information Systems: Global Edition</i>, McGraw-Hill,</li> <li>10. Damij N., Damij T., (2014). <i>Process Management: A Multi-disciplinary Guide to Theory, Modeling, and Methodology</i>, Springer</li> <li>11. Bob de Wit., Meyer R., (2004). <i>Strategy: Process, Content, Context- An International perspective</i>, Thomson,</li> <li>12. Firestone J.M., (2003). <i>Enterprise Information Portals and Knowledge Management</i>, Elsevier Science,</li> <li>13. Kendal K.E., Kendal J.E., (2005). <i>Systems Analysis and Design</i>, Prentice Hall,</li> <li>14. Ward J., Griffiths P., (1996). <i>Strategic Planning for Information Systems</i>, JohnWiley &amp; Sons.</li> </ol>				
<b>Number of active teaching hours</b>				<b>Other classes</b>
Lectures: 4	Practice: 2	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	30
practical classes/tests		written examination	
Seminars/homework	<b>30</b>	.....	
Project	<b>40</b>		
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**