

## DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Information System Control and Revision				
<b>Head of course</b>	Associate Professor, PhD Snježana Babić				
<b>Study programme</b>	Specialist professional graduate study of Information Technology in Business Systems				
<b>Status of a course</b>	Obligatory				
<b>Year of study</b>	1.	<b>Semester</b>	I	<b>ECTS credits</b>	4
<b>Teaching plan (L + E + S+ Pr)</b>	2L+1S				
<b>Goals of a course</b>					
Introducing students to the basic knowledge, skills and competencies needed to carry out the control and audit of information systems and the importance of the same within a business organization.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
<p>Outcome 4: Apply quality standards to the process of the development of business information systems.</p> <p>Outcome 5: Apply standards and methods of controlling and auditing the business information system.</p> <p>Outcome 8: Apply methods and techniques for managing security and data protection in information and communication systems.</p> <p>Outcome 15: Analyse and recommend the use of IT tools within a business organization.</p> <p>Outcome 16: Assess the place and role of ICT in the context of organization, management and business processes.</p> <p>Outcome 17: Present development and software solutions within a business organization.</p>					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Distinguish and explain basic concepts of information system control and audit as part of business system management</li> <li>2. Define and describe controls by individual life cycle stages and components of an information system in business operations</li> <li>3. Explain the process of auditing an information business system and describe the audit software tools, standards, and methods</li> <li>4. Apply standards, methods and software tools to control and audit a business information system</li> </ol>					
<b>Content of a course</b>					
Information systems' life cycle. Information system quality evaluation. Relationship between business and information system. Concept of and the need for control and revision of information systems. Control as a component of information system management. Procedures and methods of information system revision. Controls in information system development procedure. Data controls. Security management controls. Communications controls. Databases controls. Collecting data. Revision software tools. Expert revision systems. Measurement of information system characteristics. Evaluation of revision and control results. Managing function of information system revision. Protection of data privacy. Virtual organizations.					
<b>Teaching modes</b>	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
<b>Comments</b>					
<b>Students' obligations</b>					
Adherence to the Study Regulations and the Regulation on the assessment of students.					

**Grading, evaluation and monitoring of students' work continuously during lectures and exams**

Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.

**Continuous check-up:**

Outcomes	Independent assignments	Written theoretical examination	Project assignment	Threshold	Max
Outcome 1	1%	5%		3%	6%
Outcome 2	4%	10%		7%	14%
Outcome 3	5%	20%		12,5%	25%
Outcome 4		5%	50%	27,5%	55%
Percentage of ECTS	0,4	1,6	2	-	4
Total	10%	40%	50%	50%	100%

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

**Exam term:**

Outcomes	Written exam (e-test)	Oral exam	Max
Outcome 1	5%	1%	6%
Outcome 2	13%	1%	14%
Outcome 3	24%	1%	25%
Outcome 4	54%	1%	55%
Percentage of ECTS	3,84	0,16	4
Total	96%	4%	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

**Grading:**

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome.

If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good (4)	B
60,00 – 74,99	Good (3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

**Obligatory literature**

1. Panian Ž.: Kontrola i revizija informacijskih sustava, Sinergija, Zagreb, 2001.;
2. Panian Ž., Spremić M.: Korporativno upravljanje i revizija informacijskih sustava, Zgombić & Partneri, Zagreb, 2007.
3. Manuals and guides for controlling and auditing information systems; teaching materials.

**Additional literature**

1. Champlain J.: Auditing Information Systems, John Wiley & Sons, 2003. 4.
2. CISA Review manual



