

## FACULTY OF ENGINEERING STUDY COURSE DESCRIPTION

<b>Course Title:</b>	<b>Information Security Risk Management</b>				
<b>Course code (LAIS):</b>	<b>DatZ5017</b>				
<b>Study programme:</b>	<b>CYBERSECURITY ENGINEERING</b>				
<b>Level of Study programme:</b>	<input type="checkbox"/> 1st level professional higher education				
	<input type="checkbox"/> Professional Bachelor				
	<input checked="" type="checkbox"/> Professional Master				
	<input type="checkbox"/> PhD level				
<b>Type of Study programme:</b>	<input type="checkbox"/> Compulsory course (Part A)				
	<input checked="" type="checkbox"/> Professional specialization courses (Part B, compulsory)				
	<input type="checkbox"/> Professional specialization optional courses (Part B, optional)				
	<input type="checkbox"/> Elective courses (Part C)				
<b>Course Workload:</b>	<b>Credits</b>	<b>ECTS</b>	<b>Academic hours</b>	<b>Contact hours</b>	<b>Independent work hours</b>
	2	3	80	24	56
<b>Course Author/ Tutor:</b>	<b>Sintija Deruma, Istvan Lengyel</b>				
	Academic position scien./acad. degree			Guest lecturers	
	Consultation: according to the schedule for each semester				
<b>Course Form:</b>	Full time				
<b>Study year, semester:</b>	2018 /2019		2nd,4th semesters		
<b>Language:</b>	Latvian, English				
<b>Prerequisites for the Course:</b>	Basic skills in maths				
<b>Course Summary:</b>	The aim of the study course is to increase students' awareness of information security risks in organizations, cyber-attacks and their protection measures.				
<b>Course Methods:</b>	Lectures, practical workshops, seminars, discussions, group work				
<b>The Type of Final examination</b>	Exam				
<b>Requirements for Credits:</b>	Practical work 60%, final exam 40%				
<b>Course Contents:</b>	Risk management terminology in the context of cybersecurity, the lifecycle of risk management, quantitative and qualitative analysis, information analysis methods, information security risk monitoring methods, tools, metrics.				
<b>Learning Outcomes</b>	<b>Learning Outcomes</b>			<b>The evaluation methods and criteria</b>	
	<b>Knowledge</b>				
	A student <b>knows and understands</b> information security risks in an organization.			lectures, practical classes, seminars, discussions, group work	
	<b>Skills</b>				
A student is <b>able to apply</b> appropriate methods, protection measures, security controls to implement information security.			lectures, practical classes, seminars, discussions, group work		
<b>Competency</b>					
A student is able to <b>analyse and evaluate</b> the information security risks, vulnerabilities, weaknesses in an organization, and provide recommendations for their elimination.			practical classes, seminars, discussions, group work		
<b>Course Compulsory literature:</b>	Risk Management Framework for Information Systems and Organizations, NIST, 800-37 <a href="https://csrc.nist.gov/CSRC/media/Publications/sp/800-37/rev-2/draft/documents/sp800-37r2-discussion-draft.pdf">https://csrc.nist.gov/CSRC/media/Publications/sp/800-37/rev-2/draft/documents/sp800-37r2-discussion-draft.pdf</a>				
<b>Course additional literature:</b>	Comparison of Risk Management Methods and Tools - <a href="http://www.enisa.europa.eu/activities/risk-management/current-risk/risk-management-inventory/comparison">http://www.enisa.europa.eu/activities/risk-management/current-risk/risk-management-inventory/comparison</a>				
Course approval date:	January 3, 2018		Course last revision date:		

### Study Course Plan:

Date*	Theme	Academic hours		Study Form
		contact lessons	Independent work hours	
	Risk management terminology in the	8		Lecture, situation analysis,

	context of cybersecurity.			discussions
	The lifecycle of risk management, quantitative and qualitative analysis.	8		Lecture, situation analysis, discussions
	Information security risk monitoring methods, tools, metrics.	6	20	Lecture, situation analysis, discussions
	Practical work: risk analysis, risk mitigation plan development project.		36	Lecture, situation analysis, discussions
	Group project.	2		Final exam
	<b>Hours total:</b>	<b>24</b>	<b>56</b>	

\* The date is specified before the implementation of the course