

Study Program: Informatics			
Type and level of studies: Bachelor studies			
<b>Course name: Security and protection of computer systems</b>			
<b>Lecturer: Bandur V. Miloš</b>			
Status: elective			
ECTS: 10			
Attendance Prerequisites:			
<b>Course aims</b> Raising students' awareness about security threats which can occur when using IT, as well as about attacking and secure methods.			
<b>Course outcome</b> The students are able to use and build computer systems responsibly and conscientiously and to minimize the risks. They are able to apply adequate organizational, technical and cryptographic measures of protection in their workplaces.			
<b>Course content</b> <i>Theoretical part</i> Security threats. Protection implementation methodology. Cryptographic protection methods, cryptographic algorithms, digital signatures, digital certificates. Symetric and asymmetric cryptographic algorithms, hash functions, key exchange. Key management. Organisation and other non-cryptographic measures of protection. Basic protection mechanisms. Protection management. E-mail protection. Network barriers. WEB protection. Electronic commerce and protection. <i>Practical part</i> System protection project work.			
<b>Literature</b> 1. Power Point prezentacija. 2. Charles P. Pfleeger, Shari Lawrence Pfleeger Security in Computing, Third Edition, Prentice Hall, 2002. 3. D. Pleskonjić, N. Maček, B. Đorđević, M. Carić: "Sigurnost računarskih sistema i mreža", Mikro knjiga, Beograd, 2007., ISBN: 978-86-7555-305-2, knjiga – udžbenik			
Lectures: 4	Practical classes: 3	Other forms of teaching:	
<b>Teaching methods</b> Lectures, computer practice, consulting.			
<b>Assessment (maximum 100 points)</b>			
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
activity during lectures	10	written exam	20
practical classes	20	oral exam	20
term test(s)	15	.....	
seminar(s)	15		
<b>Total</b>	<b>60</b>		<b>40</b>