

1.	Course	Information Security			
2.	Code	INF-S6			
3.	Study programme	Informatics			
4.	Study programme organized by	Faculty of Computer Science and Engineering			
5.	Cycle	Third - PhD			
6.	Academic year / semester winter/summer/elective	Second winter/summer/elective	7.	ECTS credits	7,5
8.	Teacher	Assoc. prof. Vesna Dimitrova			
9.	Prerequisites	None			
10.	Course programme goals (competences): Detailed and practical survey of security models for access control, protocols and software for computer configurations				
11.	Course syllabus: Advanced methods for authentication and authorization, analysis of contemporary methods of passwords and biometrics, a detailed survey of access control matrix and multilevel security models, practical survey of firewalls, intrusion detection, authentication protocols, SSL, analysis of software insecurity, a survey of current viruses, worms, advanced methods for the security of operating systems				
12.	Teaching methods: Classes supported with slide presentations, interactive teaching, lab equipment and other software packages, teamwork, case studies, invited guest lecturers, presentations of project works, e-learning materials, forums and consultations				
13.	Total fund of work hours	7,5 EKTTC x 30 h = 225 h			
14.	Available hours distribution	45+30+150 = 225			
15.	Teaching activities	15.1.	Theoretical classes	45 h	
		15.2.	Practical classes (labs, exercises), seminars, team work	30 h	
16.	Other activities	16.1.	Project tasks	50 h	
		16.2.	Self study	50 h	
		16.3.	Homework	50 h	
17.	Grading				
	17.1.	Tests	40 points		
	17.2.	Seminar work/ project (presentation: written and oral)	50 points		
	17.3.	Active participation	10 points		
18.	Grading criteria (points/grade)	to 59 points		5 (five) (F)	
		from 60 to 68 points		6 (six) (E)	
		from 69 to 76 points		7 (seven) (D)	
		from 77 to 84 points		8 (eight) (C)	
		from 85 to 92 points		9 (nine) (B)	
		from 93 to 100 points		10 (ten) (A)	

19.	Conditions for attending the final exam	Successful completion of activities 15.1 and 15.2
20.	Language	Macedonian or English
21.	Quality assessment	Internal evaluation and student pools

22.	Literature				
22.1.	Compulsory				
	No.	Author	Title	Publisher	Year
	1.	J. R. Vacca	Computer and Information Security Handbook	Morgan Kaufmann Publ.	2009
	2.	M. Stamp	Information security principles and practice	Wiley-Interscience	2006
3.	D. Gollmann	Computer Security	John Wiley & Sons	1999	
22.2.	Additional				
	No.	Author	Title	Publisher	Year
	1.	M. Bishop	Computer security – Art and science	Addison-Wesley	2003
	2.	Charles P. Pfleeger, Shari Lawrence Pfleeger	Security in Computing	Prentice Hall	2005
3.	Ross J. Anredson	Security Engineering: A Guide to Building Dependable Distributed Systems	John Wiley & Sons	2001	