1.	Course Title	Cybersecurity for Beginners								
2.	Code	F18L1S066								
3.	Study program	Software engineering and information systems								
4.	Study Program Organizer	Faculty of Computer Science and Engineering								
5.	Degree (first, second, third cycle)	first o	first cycle							
6.	Academic year / semester 1 / summer / mandatory	7. EC 6	7. ECTS credits 6							
8.	Teacher	1	associate professor SoNja Filiposka, associate professor Anastas Mishev							
9.	Course enrollment prerequisites									
10.	Course program goals (competencies): The student will understand the concept of cyber security, threats and risks. Will be aware about the problems related to cyber crime and will be able to understand the risks of attacks and the basic mechanism for protection.									
11.	Course program content: (1) What is cyber security, cyber risks and threats (1) Digital identities and privacy (1) Incidents and responses (1) Critical infrastructure, physical security (1) What is computer crime, hackers, hacktivism (1) Malicious software (1) Cyberwarfare and cyberespionage (1) Cyber attacks defence (1) Digital values and currencies (1) Social engineering and X- factor (1) Open source intelligence (OSINT) (1) Security evaluation, analysis and establishment (1) Availability, assurance, accountability									
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.									
13.	Total available time		6 ECTS x 30 hours = 180 hours							
14.	Distribution of the available time		30 + 45 + 15 + 15 + 75 = 180 hours							
15.	Teaching activity forms		Lectures – theoretical 30 hours teaching							
		15.2.	Exercises (laboratory, 45 hours auditory), seminar papers, teamwork							
16.	Other activity forms	16.1.	Project Tasks 15 hours							

				16.2	.2. Independent Lear Tasks			rning 15 hours		
				16.3	. Home learr	ning		75 hou	rs	
17.	Assessment methodology									
	17.1. Tests				10 points					
	17.2.	Seminar paper/project (presentation: written and oral)						10 points		
	17.3.	Activit	ctivity and learning					10 points		
	17.4.	.4. Final exam					70 points			
18.	Assessment criteria (points/grade)			ip to 50 poin	ts	5 (fiv	ve) (F)			
					1 to 60 poin					
					o1 to 70 poin				even) (D)	
					'1 to 80 poin				·	
					<b>1</b>	to 90 points 9 (nine) (B)				
					1 to 100 poi			en) (A)		
19.	Cours requir									
20.	Teach	ing Lar	nguage	and English	l					
21.	Teach	ing qua	lity evaluation met		Internal evaluation mechanisms a questionnaires					and
22.	Course Material									
	22.1. Mandatory course material									
		No	Author	Title		Publisher		Year		
		1	Raef Meeuwisse	Cybers Beginn	ecurity for ers	Cyber Simplicity Ltd		2017		
			P. W. Singer	Cybersecurity and Cyberwar		Oxford University Press		2014		
	22.2. Additional course material									
		No.	No. Author		Title	Publi		isher Year		