1.	Course Title	Mobile Applications					
2.	Code	F18L3S127					
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 cycle					
6.	Academic year / semester 4 / summer / optional	7. ECTS credits 6					
8.	Teacher	full professor Ljupcho Antovski, full professo Vladimir Trajkovikj, assistant professor Petro Lameski					
9.	Course enrollment prerequisites	Алгоритми и податочни структури					
10.	Course program goals (competencies): After finishing this course the student is expected to have broadened knowledge in application of technologies and tools for mobile application design and development						
	application development platform. A commercial mobile application. Used development and planning of user in Data structures and memory usage integration with external services. A applications. Mobile applications in h	Application structure. Planning and development er interfaces flown with operating system. Rules atterface. Resource optimization in mobile application in mobile devices. Mobile device databases a Artificial intelligence and machine vision in mobile application in the device databases and planting and electronic commerce. Examples by Mobile applications publishing (best practices).					
1.0	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.						
12.	Lectures using presentations, interac packages), teamwork, case studies,	invited guest lecturers, independent preparation and					
12.	Lectures using presentations, interac packages), teamwork, case studies,	invited guest lecturers, independent preparation and					
13.	Lectures using presentations, interac packages), teamwork, case studies, defense of a project assignment and s	invited guest lecturers, independent preparation and eminar work.					
	Lectures using presentations, interac packages), teamwork, case studies, defense of a project assignment and s Total available time	invited guest lecturers, independent preparation and teminar work. 6 ECTS x 30 hours = 180 hours					

16.	Other activity forms			16.1	.1. Project Tasks		15 hours					
					16.2	. Independer Tasks	nt Lea	rning	15 hour	S		
					16.3	. Home learn	ning		75 hour	S		
17.	Assessment methodology											
	17.1. T							10 points				
					entation: written and oral)		10 points					
			learning			10 points						
	17.4. Final exam								ooints			
18.	Assess	ment c	riteria	a (points/grade)		ip to 50 point		$\overline{}$	(e) (F)			
						1 to 60 point		_	(E)			
						1 to 70 poin		_	ven) (D)			
						71 to 80 poin			ght) (C)			
					-	81 to 90 poin			ne) (B)			
10	C		1 . 4:	1 C1		01 to 100 poi			en) (A)			
19.	Course require		ipietio	on and final	exam	Realized acti	vittes 15.1 a	and 1	5.2			
20.			01120	<u> </u>		Macadonian	and English	,				
	Teaching Language Macedonian and English								~	d		
21.	questionnaires					evaluatio s	on mechanisms ar			and		
22.	Course	Mater	rial									
	22.1.	Mand	atory	course material								
		No	Aut	hor	Title		Publisher		Year			
		1	Mat	t Neuburg	Fundar with S	mming nentals wift: Swift, and Cocoa	O'Reilly		2017			
		2	Donny Wals		Mastering iOS 11 Programming - Second Edition: Build professional-grade iOS applications with Swift 4 and Xcode 9		Packt		2017			
	22.2.	Addit	ional	course material								
		No.		Author		Title		Publi	isher	Year		