1.	Course title Mobile Platforms and Programming							
2.	Course code	CS	SEW519					
3.	Study program							
4.	Unit offering the course		FCSE					
5.	Undergraduate/postgraduate/PhD		Undergraduate					
6.	Year/semester	7.]	7. ECTS: 6					
8.	Teacher(s)	D	Assoc. Prof. Vladimir Trajkovik PhD, Assoc. Prof. Dimitar Trajanov PhD, Assoc. Prof. Ljupco Antovski PhD, Assist. Prof. Igor Mishkovski PhD					
9.	Course prerequisites	Ob	Object – Oriented Programming					
10.	Goals (competences): After the successful completion of the course, the student will understand and be able to deploy knowledge of mobile operating systems, native mobile application programming and mobile web programming.							
11.	Course content: Mobile Operating Systems. Native and web mobile applications: conceptual differences and development approaches. Mobile applications development concepts with focus on mobility. Mobile infrastructures: mobility vs. wireless. Mobile applications features (multimodal interaction, communications channels, infrastructure limitations). Mobile applications user interfaces and interactions. Mobile users (difficulty to focus, multicultural behaviour influence). User centric methods and tools for Mobile application development. Mobile development platforms and technologies.							
12.	Teaching methods: Lectures supported by presentations with slides, interactive lectures, exercises, team work, case studies, invited guest lecturers, preparation and defence of home works and project works, learning in an e-environment (forums, consultations).							
13.	Total available time6 ECTS x 30 hours = 180 hours							
14.	Distribution of the available time $30 + 45 + 35 + 35 = 180$ hours							
15.		15.1.	Lectures		30 hours			
	Teaching activities	15.2.	Training (labs, problem solving), seminar and tea work		45 hours			
16.		16.1.	Project work		35 hours			
	Other activities	16.2.	Self study		35 hours			
		16.3.	3. Home work		35 hours			
17.	Grading							
	17.1. Tests	60 points						
	17.2. Seminar work/project (writter	30 points						
	17.3. Active participation	10 points						
18.			up to 50 points		5 (five) (F)			
	Grading criteria		from 51 to 60 points		6 (six) (E)			
		tro	from 61 to 70 points		7 (seven) (D)			

				from 71 to 80 points	8 (eight) (C)				
				from 81 to 90 points	9 (nine) (B)				
				from 91 to 100 points	10 (ten) (A)				
19.	Final exam prerequisites			Regular Class Attendance (up to three class absence will be allowed), on time admission of home works and project works.					
20.	Course language			Macedonian and English					
21.	Quality assurance methods			Internal evaluations and surveys					
22.	Literature								
		Compulsory							
	22.1.	No.	Authors	Title	Publisher	Year			
		1.	Zigurd Mednieks, Laird Dornin, G. Blake Meike Masumi Nakamura		O-Reilly Media	2012			
		2.	Daniel Vaughan	Windows Phone 7.5 Unleashed	Sams Publishing	2012			
		3.	Maximiliano Firtman	Programming the Mobile Web	O'Reilly Media	2010			
	22.2.	Mandatory							
		No.	Authors	Title	Publisher	Year			
		1.	Different Authors	Internet publications related to mobile platforms and programming					
		2.							
		3.							