1.	Course Title	Mobile Information Systems				
2.	Code	F18L3W128				
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 / winter / optional	7. ECTS credits 6				
8.	Teacher	full professor Vladimir Trajkovikj, assistant professor Petre Lameski				
9.	Course enrollment prerequisites	Алгоритми и податочни структури				
10.	Course program goals (competencies):  After finishing this course, the user is expected to have broadened knowledge in the application of technologies and data storage, acquisition and processing tools in distributed and ubiquitous environment on different mobile platforms.					
11.	and ubiquitous environment on difference of the course program content:  Integration of mobile application services. Development of mobile technologies in mobile application	ns with information systems. Ubiquitous devices and applications for multiple platforms. Communication tions. Near distance communication technologies tion of mobile applications with cloud based solutions.				
11.	and ubiquitous environment on different course program content: Integration of mobile application services. Development of mobile technologies in mobile applicate Integration with databases. Integrate Data processing in mobile application.  Learning methods: Lectures using presentations, interest.	as with information systems. Ubiquitous devices and applications for multiple platforms. Communication tions. Near distance communication technologies tion of mobile applications with cloud based solutions. Ons.  Active lectures, exercises (using equipment and software in invited guest lecturers, independent preparation and				
	Course program content: Integration of mobile application services. Development of mobile technologies in mobile application Integration with databases. Integrat Data processing in mobile application Learning methods: Lectures using presentations, interapackages), teamwork, case studies	as with information systems. Ubiquitous devices and applications for multiple platforms. Communication tions. Near distance communication technologies tion of mobile applications with cloud based solutions. Ons.  Active lectures, exercises (using equipment and software in invited guest lecturers, independent preparation and				
12.	and ubiquitous environment on different course program content: Integration of mobile application services. Development of mobile technologies in mobile applicate Integration with databases. Integrate Data processing in mobile application Learning methods: Lectures using presentations, interapackages), teamwork, case studies defense of a project assignment and	ns with information systems. Ubiquitous devices and applications for multiple platforms. Communication tions. Near distance communication technologies, tion of mobile applications with cloud based solutions. Ons.  active lectures, exercises (using equipment and software in invited guest lecturers, independent preparation and seminar work.				
12.	and ubiquitous environment on different course program content: Integration of mobile application services. Development of mobile technologies in mobile applicate Integration with databases. Integrat Data processing in mobile application Learning methods: Lectures using presentations, interapackages), teamwork, case studies defense of a project assignment and	ns with information systems. Ubiquitous devices and applications for multiple platforms. Communication tions. Near distance communication technologies, tion of mobile applications with cloud based solutions. Ons.  Active lectures, exercises (using equipment and software in invited guest lecturers, independent preparation and seminar work.  6 ECTS x 30 hours = 180 hours				

	16.	2. Independent Lea Tasks	arning 15 hours				
	16.	3. Home learning	75 hours				
17.	Assessment methodology		·				
	17.1. Tests		10 points				
	17.2. Seminar paper/project (presentation	10 points					
	17.3. Activity and learning	10 points					
	17.4. Final exam		70 points				
18.	Assessment criteria (points/grade)	up to 50 points	5 (five) (F)				
		51 to 60 points	6 (six) (E)				
		61 to 70 points	7 (seven) (D)				
		71 to 80 points	8 (eight) (C)				
		81 to 90 points	9 (nine) (B)				
		91 to 100 points	10 (ten) (A)				
19.	Course completion and final exan requirements	Realized activities 15.1	and 15.2				
20.	Teaching Language	Macedonian and English					
21.	Teaching quality evaluation method	Internal evaluation questionnaires	on mechanisms and				
22.	Course Material						
	22.1. Mandatory course material						

No	Author	Title	Publisher	Year	
1	Gaurav Saini	Hybrid Mobile Development with Ionic: Building highly interactive mobile apps		2017	
2	Ivo Salmre	Writing Mobile Code: Essential Software Engineering for Building Mobile Applications: Essential Software Engineering for Building Mobile Applications	Wesley	2005	
3	Greg Shackles	Mobile Development with C#: Building Native iOS, Android, and Windows Phone Applications		2012	
22.2. Add	itional course materia		1	I I	
22.2. Aud					Year