1.	Course		Advanced Mob	ile Information Systems				
2.	Code		KNI E15					
2	Study programme		Computer Science and Engineering PhD study					
э.			programme					
4.	Study programme organized by			FCSE				
5.	Cvcle		Third – PhD					
6.	Academic year / semester							
	winter/summer/elective	7.	7. ECTS credits 7,5					
8.	Teacher	Pı	Prof. d-r Vladimir Trajkovikj, Prof. d-r Danco Davcev					
9.	Prerequisites		None					
	Course programme goals (competences):							
10.	The students will have the knowledge to employ various techniques for analysis, design ar implementation of mobile information systems.							
	Course syllabus:							
11.	The fast and recent development of wireless technologies has brought to the so-called moc computing, new dimensions in the data communication and their processing. A new big rapidly growing market with millions of mobile users that carry with them small battery pow- wireless devices has been created, and thus, as a result, a radical transformation of the people use information resource follows. The course will setup the basics for modeling, anal and design of mobile information systems, as well as mobile applications in the mobile cl- Data managements, data fusion and knowledge managements in distributed mobile and c environments will be studied in great detail. The basic elements for mobile information systems and computing are the intelligent u computer interfaces and their adaptability to the user needs. Sensor networks as a part of ubiquitous services and computing will also be reviewed.							
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 EKTC x 30 h = 225 h					
14.	Available hours distribution		45+30+150 = 225					
		15.1.	Theoretical classes	45 h				
15.	Teaching activities		Practical classes (lab exercises), seminars, team work	s, 30 h				
16.		16.1.	Project tasks	50 h				
	Other activities		Self study	50 h				
			Homework	50 h				
	Grading							
17.	17.1. Tests	40 points						
	17.2. Seminar work/ project (presenta	50 points						
	17.3. Active participation	10 points						

18.			to 59 points	5 (five) (F)					
				from 60 to 68 points	6 (six) (E)				
	Grading criteria (points/grade)				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				
	Literature								
22.		Con	npulsory						
	22.1.	No.	Author		Title	Publisher	Year		
		1.	Walker, J.	Mo	obile Information Systems	Artech House	1990		
		2.	E. H. Callaway Jr.	W Ar	Tireless Sensor Networks: cchitectures and Protocols	CRC Press	2003		
		3.	Dr. Grifoni, ed.	C	Multimodal Human Computer Interaction and Pervasive Services	Information Science Reference (USA)	2009		
		Additional							
	22.2.	No.	Author		Title	Publisher	Year		
		1.	R.Rodger	Ap	Beginning Mobile oplication Development in the Cloud	Wiley	2012		
		2.							
		3.							
	1	1							