1.	Course		Advanced Mobile Information Systems					
2.	Code		KNI E15					
	Study programme		Computer Science and Engineering PhD study					
3.			programme					
4.	Study programme organized by			FCSE				
5.	Cycle		Third – PhD					
	Academic year / semester							
6.	winter/summer/elective	7.	7. ECTS credits 7,5					
8.	Teacher	kovikj, 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 an implementation of mobile information systems.							
	Course syllabus:							
11.	The fast and recent development of wireless technologies has brought to the so-called mobile computing, new dimensions in the data communication and their processing. A new big and rapidly growing market with millions of mobile users that carry with them small battery powered wireless devices has been created, and thus, as a result, a radical transformation of the way people use information resource follows. The course will setup the basics for modeling, analysis and design of mobile information systems, as well as mobile applications in the mobile cloud. Data managements, data fusion and knowledge managements in distributed mobile and other environments will be studied in great detail. The basic elements for mobile information systems and computing are the intelligent user-computer interfaces and their adaptability to the user needs. Sensor networks as a part of the 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				
		16.1.	Project tasks	50 h				
16.	Other activities		Self study	50 h				
			Homework	50 h				
17.	Grading							
	17.1. Tests	40 points						
	17.2. Seminar work/ project (presenta	50 points						
	17.3. Active participation	10 points						

18.	Grading criteria (points/grade)		to 59 points	5 (five) (F)					
				from 60 to 68 points	6 (six) (E)				
				from 69 to 76 points	7 (seven) (D)				
	Grading eriteria (points/grade)				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								
		Com	pulsory						
	22.1.	No.	Author	Title		Publisher	Year		
		1.	Walker, J.	Mo	bile Information Systems	Artech House	1990		
		2.	E. H. Callaway Jr.		reless Sensor Networks: chitectures and Protocols	CRC Press	2003		
22.		3.	Dr. Grifoni, ed.	C	Multimodal Human omputer Interaction and Pervasive Services	Information Science Reference (USA)	2009		
		Additional							
	22.2.	No. Author			Title	Publisher	Year		
		1.	R.Rodger	Beginning Mobile Application Development in the Cloud		Wiley	2012		
		2.							
		3.							
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