1.	Course		Topics in Software Development					
2.	Code		KNI_E21					
3.	Study programme	Computer Science and Engineering PhD study programme						
4.	Study programme organized by	FCSE						
5.	Cycle	ird – PhD						
6.	7. ECTS credits 7,5 winter/summer/elective							
8.	Teacher		Prof. d-r Ivan Chorbev					
9.	Prerequisites	quisites						
	Course programme goals (competences):							
10.	The students will understand and be able to apply their knowledge on topics connected to state-of-the-art topics on software application development, modern software development technologies.							
	Course syllabus:							
11.	The course topics will include programming tools, programming paradigms, agile programming, extreme programmings, aspect-oriented programming, functional decomposition, post-objective programming, rule based programming, portable programming, iterative programming, Behavior Driven Development (BDD), Lean software development, Feature Driven Development, Joint Application Development (JAD), Capability Maturity Model Integration, Cloud computing, software engineering for web applications.							
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							
13.	works, e-learning materials, forums and consultations. Total fund of work hours 7,5 EKTC x 30 h = 225 h							
	Available hours distribution $45+30+150 = 225$			20 11				
	Teaching activities		Theoretical classes	45 h				
15.			Practical classes (labs exercises), seminars, team work	30 h				
16.	Other activities 1		Project tasks	50 h				
			Self study	50 h				
			Homework	50 h				
17.	Grading							
	17.1. Tests			40 points				
	17.2. Seminar work/ project (preser	ntation:	written and oral)	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)					

				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			n Successful completion	Successful completion of activities 15.1 and 15.2				
20.	Language			Macedoni	Macedonian or English				
21.	Quality assessment			Internal evaluation	Internal evaluation and student pools				
22.	Literature								
		Compulsory							
	22.1.	No.	Author	Title	Publisher	Year			
		1.	Kent Beck, Cynthia Andres	Extreme Programming Explained: Embrace Change, Second Edition	Addison Wesley Professional	2004			
		2.	Robert C. Martin	Clean Code, A Handbook of Agile Software Craftsmanship	Pearson Education, Inc.				
		3.	Steve McConnell	Code Complete, Second Edition	Microsoft Press	2004			
		Additional							
	22.2.	No.	Author	Title	Publisher	Year			
		1.	Roger S. Pressman	Software engineering: a practitioner's approach,5th	McGraw-Hill series in computer				
			Evo Andorsson Dhilin	ed.	science				
		2.	Eve Andersson, Philip Greenspun, and Andrew	Software Engineering for Internet Applications	The MIT Press, Cambridge,				
			Grumet	micrici Applications	Massachusetts				
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