1	Course Title	Software Design and Architecture					
2.	Code	F18L3W009					
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 3 / winter / mandatory	7. ECTS credits 6					
8.	Teacher	full professor Ljupcho Antovski, full professor Dejan Gjorgjevikj, associate professor Gjorgji Madzharov					
9.	Course enrollment prerequisites	Анализа на софтверските барања или Софтверско инженерство					
10.	introduce the students to the tech software architectures. Upon compl	oncepts of the object oriented analysis and design. To nniques of refactoring, design patterns and different etion of the course the students will be able to identify					
		y of the software systems. They will be able to evaluate f software specifications, and to design software needs.					
11.	completeness and consistency of	f software specifications, and to design software					
11.	completeness and consistency of architectures according the specific Course program content: Learning methods: Lectures using presentations, interactions	f software specifications, and to design software needs. active lectures, exercises (using equipment and software, invited guest lecturers, independent preparation and					
	completeness and consistency of architectures according the specific Course program content: Learning methods: Lectures using presentations, interapackages), teamwork, case studies	f software specifications, and to design software needs. active lectures, exercises (using equipment and software, invited guest lecturers, independent preparation and					
12.	completeness and consistency of architectures according the specific Course program content: Learning methods: Lectures using presentations, interapackages), teamwork, case studies defense of a project assignment and	f software specifications, and to design software needs. active lectures, exercises (using equipment and software, invited guest lecturers, independent preparation and seminar work.					

				15.2	Exercises auditory), teamwork	(labor seminar pa		45 hour	S	
16.	Other activity forms			16.1	Project Tas	ks		15 hours		
				16.2	Independer Tasks	nt Lea	ırning	15 hour	S	
				16.3	. Home learn	ning		75 hour	S	
17.	Assessment methodology									
	17.1. Tests				10 po			oints	oints	
	17.2. Seminar paper/project (presentation: written a				written and	l oral) 10 points				
	17.3. Activity and learning						10 points			
	17.4. Final exam						70 points			
18.	Assess	ment c	criteria (points/grade)	u	p to 50 poin	ts	5 (fiv	(F)		
			(1 to 60 poin					
					1 to 70 poin		$\overline{}$	ven) (D)		
					'1 to 80 poin		\rightarrow	ght) (C)		
					1 to 90 points 9 (nine					
					1 to 100 poi	nts	10 (te	en) (A)		
19.	Course	com	pletion and final	exam	Realized acti	ivities 15.1	and 1	5.2		
		requirements								
20.			nguage Macedonian and English							
21.	Teachi	eaching quality evaluation method Internal evaluation questionnaires				n	mechanisms and			
22.	Course Material									
	22.1.	Mand	latory course materia	l						
		No	Author	Title		Publisher		Year		
		1	Brett D. McLaughlin, Gary Pollice и Dave	ориент	гирана	Просветн дело	10	2009		
		2	West		а и дизајн	O'D ailler		2004		
		2	Eric Freeman, Elisabeth Robson, Bert Bates and Kathy Sierra	Head First Design Patterns		O'Reilly Media				
	22.2.	Addit	ional course material		'					
		No. Author			Title		Publisher Year			