1.	Course Title	Structural programming						
2.	Code	F18L1W020						
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 1 / winter / optional	7. ECTS credits 6						
8.	Teacher	full professor Dejan Gjorgjevikj, full professor An Madevska Bogdanova, associate professor Neven Ackovska, associate professor Ivica Dimitrovsk associate professor Ivan Chorbev, associate professor Gjorgji Madzharov, assistant professor Hristin Mihajloska, assistant professor Mile Jovanov						
9.	Course enrollment prerequisites							
10.	Course program goals (competencies): To introduce the students to the Structured programming paradigm, to understand the concept of algorithms and to enable them to develop algorithms, to code, test and compil programs. There will be introduction of data types, control structures, functions, arrays and files.							
11.	Course program content: Introduction, Programming languages and paradigms, Number representation, Structured programming concepts, Variables, Types of data and operations, Control structures, Algorithms, Functions, Recursion, Complex data structures – arrays, matrices, pointers. Files. Applications: programming language working environment.							
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.							
13.	Total available time	6 ECTS x 30 hours = 180 hours						
14.	Distribution of the available time	30 + 60 + 15 + 15 + 60 = 180 hours						
15.	Teaching activity forms	15.1. Lectures – theoretical 30 hours teaching						

					15.2.	Exercises auditory), teamwork	(labor seminar pa	-	, 60 houi	S	
16.	Other activity forms				16.1.	Project Tas				15 hours	
						Independer Tasks		ırning	15 hours		
					16.3.	Home learn	ning		60 hour	·s	
17.	Assessment methodology										
	17.1. Tests							15 points			
				er/project (prese	entation: v						
				learning				ooints			
1.0	17.4. F							75 points			
18.	Assess	ment c	criteri	a (points/grade)					5 (five) (F)		
									(six) (E)		
									even) (D)		
									8 (eight) (C) 9 (nine) (B)		
	91 to 100 points 9 (nine) (B) 91 to 100 points 10 (ten) (A)										
19.	Course	e completion and final exam Realized activities 15.1 and 15.2									
20.		ng Language Macedonian and English									
21.	Teachi	ng qua	lity e	valuation metho		Internal aestionnaire	evaluatio es	n	mechani	sms and	
22.	Course	Mate	rial								
	22.1.	Mand	latory	course material	-						
		No	Aut	hor	Title	Publisher			Year		
		1	Kernighan B., Ritchie D.		The C Programming Language, 2nd edition		Prentice Hall 1		1988		
		2	Dei	tel, Deitel,	How to program, C, 6th edition P		Prentice Hall		2010		
		3	Stev	e Oullaine	Practical C, 3rd edition		O'Reilley		1997		
		4		er Prinz, Tony wford	C in a Nutshell O'R		O'Reilly	Reilly 2005			
	22.2.	Addit	ional	course material							
		No.		Author		Title		Publisher Year			