1.	Course title	Sti	Structured programming				
2.	Course code	CS	CSEW101				
3.	Study program	Ne Ed En Ac	Computer Science and Engineering, Computer Networks Technologies, Applied E-Technologies Education of Informatics, Informatics and Computer Engineering, Professional Informatics Studies, Academic Informatics Studies, Professional Information Technologies Studies				
4.	Unit offering the course		FCSE				
5.	Undergraduate/postgraduate/PhD		Undergraduate				
6.	Year/semester	7.	7. ECTS: 6				
8.	Teacher(s)	Lo Bo ass Iva	prof. dr. Dragan Mihajlov, prof. dr. Suzana Loshkovska, assoc. prof. dr. Ana Madevska- Bogdanova, assoc. prof. dr. Dejan Gjorgjevikj, assist. prof. dr. Nevena Ackovska, assist. prof. dr. Ivan Chorbev, assist. prof. dr. Ivica Dimitrovski, assist. prof. dr. Gjorgji Madzarov				
9.	Course prerequisites	No	None				
10.	Goals (competences): 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 compile programs. There will be introduction of data types, control structures, functions, arrays and files.						
11.	Course content: Introduction, Concept of computer science, Programming languages and paradigms, Types of data and operations, Algorithms, Control structures, Functions, Recursion, Complex data structures – arrays, matrices, pointers. Files. Applications: programming language working environment.						
12.	Teaching methods: Lectures supported by presentations with slides, interactive lectures, exercises (use of equipment and software packages), real life examples, invited guest lecturers, preparation and defence of a project work and seminar thesis, learning in an e-environment (forums, consultations).						
13.	Total available time6 ECTS x 30 hours = 180 hours						
14.	Distribution of the available time	1	30 + 45 + 30 + 75 = 180 hours				
15.	Teaching activities	15.1.	Lectures	30 hours			
		15.2.	Training (labs, problem solving), seminar and team work	60 hours			
16.	Other activities	16.1.	Project work	30 hours			
		16.2.	Self study	30 hours			
		16.3.	Home work	30 hours			

17.	Grading								
	17.1.	l. Tests			75 points				
	17.2.	Semina	eminar work/project (written or oral presentation)						
	17.3.	Active participation			10 points				
18.				o 50 points	5 (five) (F)				
	Grading criteria			rom 51 to 60 points	6 (six) (E)				
			19	rom 61 to 70 points	7 (seven) (D)				
			11	om 71 to 80 points	8 (eight) (C)				
				rom 81 to 90 points	9 (nine) (B)				
			fı	om 91 to 100 points	10	(ten)(A)			
19.	Final e	nal exam prerequisites		Completed activities 15.1 and 15.2					
20.	Course	ourse language		Macedonian and English					
21.	Qualit	y assura	nce methods	Internal evaluation and satisfaction polls					
	Literature								
		Compulsory							
	22.1.	No.	Authors	Title	Publisher	Year			
22.		1.	Kernighan B., Ritchie D.	The C Programming Language, 2nd edition	Prentice Hall	1988			
		2.	Deitel, Deitel,	How to program, C, 6th edition	Prentice Hall	2010			
22.		3.	Steve Oullaine	Practical C, 3rd edition	O'Reilly	1997			
	22.2.	Additional							
		No.	Authors	Title	Publisher	Year			
		1.	Peter Prinz, Tony Crawford	C in a Nutshell	O'Reilly	2005			
		2.							
		3.							
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