1.	Course title	Computer Science for Intelligent Systems						
2.	Course code InIS-Z-01							
3.	Study program		Intelligent Syste	ms Eng	gineering			
4.	Unit offering the course		FCSE					
5.	Undergraduate/master/PhD		Ma	ster				
6	Year/semester	7	7 ECTS: 6					
0.	1/winter/compulsory	/.	/. EC15. 0					
8.	Teacher(s)	pr	prof. Smile Markovski, prof. Ana Madevska Bogdanova					
9.	Course prerequisites		None					
10.	Goals (competences): To enable the students to obtain knowledge for formal tools for modelling and development of algorithms needed to develop Artificial Intelligent System applications. The students will be introduced to the formal theory of languages, computational theory, basic models for building biological sequences, appropriate data structures for analyzing the biological data.							
11.	Course content: Formal languages (regular languages, context free languages, Turing machines, complexity theory), data structures and algorithms (sequences, trees, different algorithmic techniques, string processing, data compression)							
12.	Teaching methods: Lectures supported by slide presentations, interactive lectures, trainings (using lab equipment and software packages), team work, case studies, invited guests and lectures, individual practical assignments presentations, seminar paper, e-learning (forums, consultations).							
13.	Total available time		$6 ECTS \times 30 \text{ hours} = 180 \text{ hours}$					
14.	Distribution of the available time $30+30+40+40=180$ hours							
15.		15.1.	Lectures		30 hours			
	Teaching activities		Training (labs, problem solving), seminar and team work		30 hours			
16.		16.1.	Project work		40 hours			
	Other activities	16.2.	Self study		40 hours			
			Home work		40 hours			
	Grading							
17.	17.1. Tests				20 points			
	17.2. Seminar work/project (written or oral presentation)				50 points			
	17.3. Active participation				30 points			
18.	Grading criteria		to 59 points 5 (five) (F)					
			from 60 to 68 points	bints $6(six)(E)$				
			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.	Final exam prerequisites		requisites	Successfully completed activities 15.1 and 15.2					
20.	Course language		ge	Macedonian and English					
21.	Quality assurance methods			Internal evaluation and student questionnaires					
	Literat	ure							
22.		Compulsory							
	22.1.	No.	Authors	Title	Publisher	Year			
		1.	Michael Sipser	Introduction To The Theory Of Computation	Thomson Course Technology	2006			
		2.	Thomas H. Cormen Charles E. Leiserson Ronald L. Rivest Clifford Stein	Introduction to algorithms	The MIT Press	2001			
		3.							
	22.2.	Additional							
		No.	Authors	Title	Publisher	Year			
		1.							
		2.							
		3.							