1.	Course Title	Artific	rtificial Intelligence				
2.	Code	F18L2	L2S030				
3.	Study program	Softw	ware engineering and information systems				
4.	Study Program Organizer	Facult	y of Computer Science and Engineering				
5.	Degree (first, second, third cycle)	first c	cycle				
6.	Academic year / semester 2 / summer / optional	7. ECT 6	CTS credits				
8.	Teacher	full profes Kulako profes	full professor Katerina Zdravkova, associat ofessor SoNja Gievska, associate professor Andre ulakov, assistant professor Petre Lameski, assistan ofessor Kire Trivodaliev				
9.	Course enrollment prerequisites	Алгор	ритми и податочни структури				
10.	Course program goals (competencies): Upon successful completion of the course, students will have an understanding of the basic areas of artificial intelligence including search, problem solving, knowledge representation, reasoning, decision making, planning, perception and action, and learning and their applications. Students will also be able to design and implement key components of intelligent agents of moderate complexity and evaluate their performance.						
11.	Course program content: Artificial intelligence Intelligent agents Introduction to search Heuristic search Adversarial search Constraints satisfaction Logical agents and predicate calculus Probabilistic reasoning Knowledge representation Learning Neural networks Genetic algorithms Communication						
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. I	Lectures – theoretical 30 hours eaching				
		15.2. Exercises (laboratory, 60 hours auditory), seminar papers, teamwork					

16.	Other activity forms 16.		16.1.	1. Project Tasks		15 hours	
			16.2.	Independent Lea Tasks	ırning	15 hours	
			16.3.	Home learning		60 hours	
17.	Assessment methodology						
	17.1. Tests				40 points		
	17.2. Seminar paper/project (presentation: written and oral)				0 points		
	17.3.	7.3. Activity and learning				10 points	
	17.4. Final exam				50 points		
18.	Assessment criteria (points/grade)			up to 50 points 5 (fir		re) (F)	
			51	l to 60 points	6 (six	(E)	
			61	to 70 points	7 (sev	ven) (D)	
			71	to 80 points	8 (eig	ght) (C)	
			81	l to 90 points	9 (nir	ne) (B)	
			91	l to 100 points	10 (te	en) (A)	
19.	Cours requi	se completion and final ex rements	xam R	Realized activities 15.1	and 1:	5.2	
20.	Teach	Teaching Language Macedonian and English					
21.	Teach	ning quality evaluation method	qı	Internal evaluatio	n 1	mechanisms	and
22.	Course Material						
	22.1. Mandatory course material						
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	No	Author	Title	Publisher	Year
	1	Stuart Russell and Peter Norvig	Artificial Intelligence: A Modern Approach	Prentice Hall	2009
	2	Eric Matthes	Python Crash Course: A Hands- On, Project-Based Introduction to Programming	No Starch Press	2015
	3 Prateek Joshi	Artificial Intelligence with Python: A Comprehensive Guide to Building Intelligent Apps for Python Beginners and Developers	Packt Publishing	2017	
22.2.	Addit	ional course material			1
	No.	Author	Title	Pub	olisher Year