

1.	Course title	Artificial Intelligence		
2.	Course code	CSES402		
3.	Study program	CSE, CE		
4.	Unit offering the course	FCSE		
5.	Undergraduate/postgraduate/PhD	Undergraduate		
6.	Year/semester	7. ECTS: 6		
8.	Teacher(s)	Prof. Katerina Zdravkova, Assoc. Prof. Andrej Kulakov, Assist. Prof. Sonja Gievska Kulakova, Assist. Prof. Igor Trajkovski		
9.	Course prerequisites	Discrete Structures 2, Algorithms and Data Structures		
10.	Goals (competences): Capability to determine the problems solvable using intelligent systems methods, to determine the most appropriate methodology for particular AI problem, and to solve it efficiently and optimally.			
11.	Course content: What are intelligent systems; Intelligent Agents; Uninformed Search; Informed Search; Adversarial Search; Advanced Search; Logical Agents; Predicate Calculus; Knowledge Representation; Reasoning with Uncertainty; Learning Agents; Machine Learning; Genetic Algorithms; Neural Networks; Communication Between Agents.			
12.	Teaching methods: Lectures, training, labs, project assignments, home assignments			
13.	Total available time	6 ECTS * 30 = 180 hours		
14.	Distribution of the available time	30 + 45 + 30 + 35 + 40 = 180		
15.	Teaching activities	15.1.	Lectures	30 hours
		15.2.	Training (labs, problem solving), seminar and team work	15 + 30 hours
16.	Other activities	16.1.	Project work	30 hours
		16.2.	Self study	35 hours
		16.3.	Home work	40 hours
17.	Grading			
	17.1.	Theoretical mid-term exams		35 points
	17.2.	Practical mid-term exams		35 points
	17.3.	Project assignments		20 points
	17.4.	Home assignments		10 points
18.	Grading criteria		to 50 points	5 (five) (F)
			from 51 to 60 points	6 (six) (E)
			from 61 to 70 points	7 (seven) (D)
			from 71 to 80 points	8 (eight) (C)
			from 81 to 90 points	9 (nine) (B)

		from 91 to 100 points	10 (ten) (A)			
19.	Final exam prerequisites	Activities 15 and 16				
20.	Course language	Macedonian and English				
21.	Quality assurance methods	Mechanisms for internal evaluation and student polls				
22.	Literature					
	22.1.	Compulsory				
		No.	Authors	Title	Publisher	Year
		1.	Russel S., Norvig, P.	Artificial Intelligence, A Modern Approach (3 rd edition)	Prentice Hall	2009
		2.	Ertel, W.	Introduction to Artificial Intelligence (Undergraduate Topics in Computer Science)	Springer	2011
		3.	Zdravkova, K. et al.	Introduction to Artificial Intelligence	courses.finki.ukim.mk	2013
		Mandatory				
	No.	Authors	Title	Publisher	Year	
	22.2.	1.	Barski, C	Land of Lisp: Learn to Program in Lisp, One Game at a Time	No Starch Press	2010
		2.	Schalkoff, R. J.	Intelligent Systems: Principles, Paradigms and Pragmatics	Jones & Bartlett Publishers	2009
3.		Kaelbling, L., Lozano-Pérez, T.	Artificial Intelligence	ocw.mit.edu; youtube.com/user/MIT	2005; 2008 - 2012	