

1.	Course title	Advanced Topics in Artificial Intelligence		
2.	Course code	IIS-I-02		
3.	Study program	Intelligent Information Systems		
4.	Unit offering the course	FCSE		
5.	Undergraduate/master/PhD	Master		
6.	Year/semester 1/winter/elective	7. ECTS: 6		
8.	Teacher(s)	Associate professor Andrea Kulakov		
9.	Course prerequisites	None		
10.	Goals (competences): The student will be qualified for using advanced algorithms and techniques in the field of Artificial Intelligence.			
11.	Course content: This is an open course where the candidate can choose to work on a project related to the latest developments in the field of Artificial Intelligence (AI). Possible subjects encompass the following fields: Natural Language Processing (Text Understanding, Machine Translation and Machine-Assisted Translation, Statistical Processing of Natural Languages and others); Reasoning by Metaphors and by Analogies; Theoretical AI (New Trends in the AI Theory; AI and legal reasoning, Ethics in AI); Cyborg Theories and others.			
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 x 30 hours = 180 hours		
14.	Distribution of the available time	130 + 0 + 50 = 180 hours		
15.	Teaching activities	15.1.	Lectures	130 hours
		15.2.	Training (labs, problem solving), seminar and team work	0 hours
16.	Other activities	16.1.	Project work	15 hours
		16.2.	Self study	15 hours
		16.3.	Home work	20 hours
17.	Grading			
	17.1.	Tests		65 points
	17.2.	Seminar work/project (written or oral presentation)		25 points
	17.3.	Active participation		10 points
18.	Grading criteria		to 59 points	5 (five) (F)
			from 60 to 68 points	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	Successfully completed activities 15.1 and 15.2				
20.	Course language	Macedonian and English				
21.	Quality assurance methods	Internal evaluation and student questionnaires				
22.	Literature					
	22.1.	Compulsory				
		No.	Authors	Title	Publisher	Year
		1.	Stuart Russell, Peter Norvig	Artificial Intelligence: A Modern Approach	Prentice Hall	2002
		2.		Artificial Intelligence - An International Journal	ISSN 0004- 3702	
		3.		Journal Of Experimental And Theoretical Artificial Intelligence	ISSN 0952- 813X	
	22.2.	Additional				
		No.	Authors	Title	Publisher	Year
		1.				
		2.				
3.						