1.	Course title	Computationa					
2.	Course code		IIS-I-13				
3.	Study program	Ma	Master studies in Computer Science and Engineering, modulus Intelligent Information Systems				
4.	Unit offering the course		FCSE				
5.	Undergraduate/master/PhD		Master				
6.	Year/semester 1/summer/elective	7.	7. ECTS: 6				
8.	Teacher(s)	А	Assistant Professor Lasko Basnarkov				
9.	Course prerequisites	No	lone				
10.	Goals (competences): Students will learn the basic game theory models. They will gain knowledge how to construct models for simple problems and how to solve those problems with the game theory.						
11.	Course content: Game representations, basic concepts. Equilibrium, existence of equilibrium, complexity of calculations. Submodular game. Potential game. Incomplete information game. Extensive game. Repeated game. Stochastic game. Evolutionary game theory. Coalition game. Implementation theory and mechanism design.						
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.		15.1.	Lectures 130				
	Teaching activities		Training (labs, problem solving), seminar and tea work	m 0 hours			
16.		16.1.	Project work	15 hours			
	Other activities	16.2.	Self study	15 hours			
			Home work	20 hours			
17.	Grading						
	17.1. Tests	65 points					
	17.2. Seminar work/project (written	or ora	al presentation) 25 point				
	17.3. Active participation			10 points			
18.	Grading criteria		to 59 points 5 (five) (I				
			from 60 to 68 points 6 (six)				
			from 69 to 76 points	7 (seven) (D)			
			trom 77 to 84 points	$\frac{8 \text{ (eight) (C)}}{2 \text{ (interval)}}$			
			trom 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		nce methods	Internal evaluation and student questionnaires			
	Literature						
22.		Comp	pulsory				
	22.1.	No.	Authors	Title	Publisher	Year	
		1.	Martin J. Osborne, Ariel Rubinstein	A Course in Game Theory	MIT Press	1994	
		2.	Martin J. Osborne	An introduction to game theory	Oxford University Press	2003	
		3.	Drew Fudenberg, Jean Tirol	e Game Theory	MIT Press	1991	
	22.2.	Additional					
		No.	Authors	Title	Publisher	Year	
		1.					
		2.					
		3.					