1.	Course title		Behaviour based robotics						
2.	Course code	Inl	InIS-I-04						
3.	Study program	Int	elligent Systems Engineering						
4.	Unit offering the course		FCSE						
5.	Undergraduate/master/PhD		Master						
6.	Year/semester 1(2)/winter/compulsory	7.]	7. ECTS: 6						
8.	Teacher(s)		Nevena Ackovska						
9.	Course prerequisites		None						
10.	 Goals (competences): The subjects enables the students to study the methods of designing robot behavior. Students should learn how formally to represent behavior of intelligent systems, such as robots. Modelling the behavior of the robots in the environment is another goal of this subject. Upon completion of this course the students should be able to: understand the biological bases of the intelligent systems construction such, as robots. formally represent the behavior of the robot in the environment model the behavior of the intelligent systems based on the input sensory information 								
11.	 Intelligent robotics, Neurological bases of the robotics, Physiological bases of the robotics, Psychology, Emotions and behavior in intelligent systems, Robotics behavior, Generating behavior, From perception to behavior 								
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 time6 ECTS x 30 hours = 180 hours								
14.	Distribution of the available time		30+30+40+40+40 =	= 180 hours					
15.		15.1.	Lectures	30 hours					
	Teaching activities	15.2.	Training (labs, problem solving), seminar and team work	30 hours					

16.	Other activities		16.1.	1. Project work		40 hours				
			16.2.	2. Self study		40 hours				
			16.3.	. Home work		40 hours				
	Grading									
17.	17.1. Tests					20 points				
	17.2. Seminar work/project (written or oral presentation)					70 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) (
					from 77 to 84 points		8 (eight) (C)			
					from 85 to 92 points	9 (nine)				
					from 93 to 100 points	10 (ten) (
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					
	Literature									
	2.0010	Comn	ulsory							
22.	Compusory									
	22.1.	No.	Authors		Title	Put	olisher	Year		
		1.	Ronald C. Arkin		Behavior-Based Robotics	MIT P	ress	1998		
		2.	Joseph L. Jones, Daniel Roth		Robot programming: a practical guide to	McGraw-Hill 2		2004		
					behavior-based robotics					
		3.	Rolf Pfeifer, Christian Scheier		Understanding Intelligence	MIT Press		2001		
		Additic	l		I					
	22.2.	No.	Authors		Title	Publishe		Year		
		1	Valentino Braitenberg -		Vehicles: Experiments	icles: Experiments MIT Pr		1986		
				0	in Synthetic Psychology					
		2.								
		3.				1				
		1			1			1		