1	Course Title	e Intelligent systems					
2.	Code	F18L3S107					
3.	Study program	Software engineering and information systems					
4.	Study Program Organizer	Faculty of Computer Science and Engineering					
5.	Degree (first, second, third cycle)	first cycle					
6.	Academic year / semester 4 / summer / optional	7. ECTS credits 6					
8.	Teacher	full professor Ana Madevska Bogdanova					
9.	Course enrollment prerequisites	Машинско учење					
	The goal of the course is to complete the knowledge of students in the field of intelligent systems, starting from pre-processing data to validation of the built system. Students will be able to build an intelligent system from start to finish on real domain specific problems. Course program content: Overview of domains using modern Intelligent Systems; Contemporary techniques for data preprocessing; Modern machine learning techniques for building models of IP; Evaluation of IP models; Discriminant versus generative IP building methods; Special theme for sound processing, Fast Fourier transform, time and spatial domain; Methods of machine learning for sound processing; Aspects of cognitive modeling - a person as an intelligent system, cognitive architectures; Processing a real problem - methods for the best choice of pre-processing techniques, model and evaluation of constructed IS; Processing a real problem -						
11.	Course program content: Overview of domains using modern preprocessing; Modern machine leas of IP models; Discriminant versus g processing, Fast Fourier transform, for sound processing; Aspects of c cognitive architectures; Processing processing techniques, model and every content of the course	Intelligent Systems; Contemporary techniques for data training techniques for building models of IP; Evaluation tenerative IP building methods; Special theme for sound time and spatial domain; Methods of machine learning ognitive modeling - a person as an intelligent system, a real problem - methods for the best choice of prevaluation of constructed IS; Processing a real problem -					
11.	Course program content: Overview of domains using modern preprocessing; Modern machine lead of IP models; Discriminant versus g processing, Fast Fourier transform, for sound processing; Aspects of cognitive architectures; Processing processing techniques, model and endesigning an IS for a selected domain Learning methods: Lectures using presentations, interactions	Intelligent Systems; Contemporary techniques for data rining techniques for building models of IP; Evaluation enerative IP building methods; Special theme for sound time and spatial domain; Methods of machine learning ognitive modeling - a person as an intelligent system, a real problem - methods for the best choice of prevaluation of constructed IS; Processing a real problem - in and its evaluation;					
	Course program content: Overview of domains using modern preprocessing; Modern machine lead of IP models; Discriminant versus g processing, Fast Fourier transform, for sound processing; Aspects of cognitive architectures; Processing processing techniques, model and endesigning an IS for a selected domain Learning methods: Lectures using presentations, interapackages), teamwork, case studies	Intelligent Systems; Contemporary techniques for data rining techniques for building models of IP; Evaluation enerative IP building methods; Special theme for sound time and spatial domain; Methods of machine learning ognitive modeling - a person as an intelligent system, a real problem - methods for the best choice of prevaluation of constructed IS; Processing a real problem - in and its evaluation;					
12.	Course program content: Overview of domains using modern preprocessing; Modern machine lead of IP models; Discriminant versus g processing, Fast Fourier transform, for sound processing; Aspects of cognitive architectures; Processing processing techniques, model and endesigning an IS for a selected domain Learning methods: Lectures using presentations, interapackages), teamwork, case studies defense of a project assignment and	Intelligent Systems; Contemporary techniques for data raining techniques for building models of IP; Evaluation enerative IP building methods; Special theme for sound time and spatial domain; Methods of machine learning ognitive modeling - a person as an intelligent system, a real problem - methods for the best choice of prevaluation of constructed IS; Processing a real problem - in and its evaluation; active lectures, exercises (using equipment and software, invited guest lecturers, independent preparation and seminar work.					

				15.2.	Exercises auditory), teamwork	(labor seminar pa		45 hou	rs	
16.	Other activity forms			16.1.	Project Tas	Tasks			rs	
				16.2.	Independer Tasks	nt Lea	rning	15 hou	rs	
				16.3.	Home learning			75 hours		
17.	Assessment methodology									
	17.1. Tests						10 points			
	17.2. Seminar paper/project (presentation: written and oral)					30 points				
	17.3. Activity and learning						10 points			
	17.4. Final exam						50 points			
18.	Assessment criteria (points/grade) up				p to 50 poin	ts	s 5 (five) (F)			
	51 to 60 points						5 (six) (E)			
	61 to 70 points						7 (sev	(seven) (D)		
					1 to 80 points 8 (eight) (C)					
	81 to 90 points 9 (nine) (B)									
					1 to 100 poi		10 (te	en) (A)		
19.	require	urse completion and final exam Realized activities 15.1 and 15.2 uirements								
20.	Teaching Language Macedonian and English									
21.	Teachi	aching quality evaluation method Internal evaluation mechanisms a questionnaires						and		
22.	Course Material									
	22.1.	22.1. Mandatory course material								
		No	Author	Title Pu		Publisher		Year		
	Abraham, Ajith		System	Intelligent Systems, A Modern Approach		Springer		2011		
	2						0			
	22.2.	Additio	onal course material							
	No. Author			Title Pu		Publi	blisher Year			