NAME OF THE COURSE FORENSICS AN		FORENSICS AND	SECURITY OF ARTIFICIAL INTELLIGENCE SYSTEM						
Code	FZ286		Year of study	2.					
Course teacher	(Full) p Kasum	rofessor Josip	Credits (ECTS)	3					
Associate teachers Mark		Pilić, PhD	Type of instruction (number of hours)	L 15	S 0	E 15	F 0		
Status of the course	Elective	9	Percentage of application of e-learning		1				
	I	COURSE	E DESCRIPTION						
Course objectives	Mastering the usage of various engineering and scientific methods in forensic approaches to artificial intelligence systems.								
Course enrolment requirements and entry competences required for the course	Requirements for course enrollment are defined by the Regulations at the University Department of Forensic Sciences and by the Regulations on Studies and System of Studies at the University of Split.								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Introduction to an artificial intelligence systems. Classify important elements of the artificial intelligence systems. Confirm the working principles of artificial intelligence systems. Using forensic methods, re-examine the work of artificial intelligence. Using forensic methods, determine artificial intelligence system failure. Classify forensic approaches to the decision-making process of artificial intelligence systems. 								
Course content broken down in detail by weekly class schedule (syllabus)	intelligence systems in different traffic systems. Course content: L1. Artificial Intelligence, Systematic Approach L2. Classification of artificial intelligence L3. Philosophical approach and artificial intelligence L4. Data, information, great data L5. Data mining systems L6. Expert systems L7. Neural networks, intelligent agents and classification L8. Evolution in connection with computerization L9. The work of artificial intelligence and forensic science L10. Forensic research of artificial intelligence system faults L11. Modern systems of artificial intelligence systems L3. Application of artificial intelligence systems L3. Application of artificial intelligence systems L3. Application of artificial intelligence system in land transport L14. Application of artificial intelligence system in land transport L15. Application of artificial intelligence. Systematic description of realistic artificial intelligence systems. E1. Legal Basis of Artificial Intelligence. Systematic description of realistic artificial intelligence systems. E2. Analysis of subsystems and elements of a selected artificial intelligence systems. E3. Working principles of selected artificial intelligence systems E4. Forensic analysis of selected artificial intelligence systems. E5. Artificial Intelligence System faults, Forensic Approach E6. The process of deciding the code of selected artificial intelligence systems by forensic approach E7. Exploration of data mining system based on data, information and large data E8. Forensic analysis of the work of the selected expert system E9. An example of the operation of neural networks								

	 E11. Interdisciplinarity, multidisciplinarity and transdiciplinarity in relation to artificial intelligence E12. An example of modern systems of artificial intelligence with general application E13. An example of artificial intelligence system in land traffic E14. An example of artificial intelligence system in air traffic E15. An example of artificial intelligence in maritime Traffic 								
Format of instruction	 ☑ lectures ☑ seminars and workshops □ exercises ☑ on line in entirety □ partial e-learning □ field work 				 independent assignments multimedia laboratory work with mentor (other) 				
Student responsibilities	Obligations of full - time students : Lectures and exercises are obligatory for students and records of attendance are kept. In order to get a professors signature, students must attend a minimum of 70% of lectures and exercises. In case of insufficient number of arrivals, no signature will be given or the right to attend the exam. Students can not justify or replace the attendance with a regular note. Students who, due to illness or for some other justified reason, have not met the conditions for signature and are missing up to 20%, will be able to do so by consulting and developing additional tasks. All other students, ie those who have realized less than 50% of required attendance, are not eligible for a signature and are required to enroll in a college next year. Obligations of part - time students: Same as full - time.								
Screening student work (name the proportion of ECTS credits for each activity so that the total number of	Class attendance	1	Re	search		Practical training			
	Experimental work		Re	port		Resea	rch paper		
	Essay		Ser ess	ninar ay	1				
ECTS credits is equal to the ECTS	Tests		Ora	al exam	1				
value of the course)	Written exam		Pro	ject					
	Grading elements			Success (min.%)		Percentege in grade (%)			
	Class attendance			95			50		
	Essay Završna procjena								
Grading and evaluating student work in class and at the final exam	Verification indicators - final exam			Success (min.%)		%)	Percentege in grade (%)		
	Previous activities (including all continuous check indicators)			100			50		
	Elementary concepts			95		20			
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
	Points (%)			Criteria		Grade			
	0- 49	Does not r criteria			neet the minimum		Insufficient (1)		
	50-64	Meets	the	Minimum	Criteria)	Sufficient (2			

	65-79	Average success with	Good (3)					
		noticeable shortcomings						
	80-89	Above the average success	Very good (4)					
		with a few mistakes						
	90-100	Outstanding success	Excellent (5)					
		Title	Number of copies in the library	Availability via other media				
Required literature (available in the library and via other media)	Warwick K., <i>Artificial intelligence</i> , The basics, Routledge, 2012, New York							
	Luger, F. Geor structures a problem sol	ge, Artificial intelligence – Ind strategies for complex Iving, 1989, sixth edition						
	Russell S., Norvig, P., Artificial Intelligence – A modern approach, 2016., England							
Optional literature	Artificial Intelligen	ce for Europe						
(at the time of submission of study programme proposal)	Al Act Naval Artificial Int	elligence						
Quality assurance methods that ensure the acquisition of exit competences	 Analysis of the success of studying programme in all classes. Students survey on the quality of teachers and teaching process for each class. The exam conducted by the teacher examines all learning outcomes of the class. 							
Other (as the proposer wishes to add)								