NAME OF THE COU	IRSE	FORENSICS AND	SECURITY OF ARTIFICE	AL INTE	LLIGEN	NCE SYS	STEM		
Code	FZ286		Year of study	2.					
Course teacher	Prof. dr	r. sc. Josip Kasum	Credits (ECTS)	3					
Associate teachers	Marko	Pilić, mag. forens.	Type of instruction (number of hours)			E 15	F 0		
Status of the course	Elective	e	Percentage of application of e-learning						
	L	COURS	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	Departi	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 in different traffic 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 and general application L12. Forensic approach to the analysis of the decision-making process of artificial intelligence systems in different transport systems L13. Application of artificial intelligence system in land transport L14. Application of artificial intelligence system in air traffic L15. Application of artificial intelligence system in Maritime traffic Exercise Content: 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 E10. Intelligent agents and application								

	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									
	☐ independent assignments									
					☐ multimedia					
Format of	□ exercises				□ laboratory					
instruction	☑ on line in entirety				□ work with mentor					
	☐ partial e-learning			_	(other)					
	☐ field work									
	Obligat	tions of f	ull -	time stud	lents:					
Student responsibilities	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									
					nan 50% of r					
	eligible for a signature and are required to enroll in a college next year.									
	Obligations of part - time students:									
	Same a	Same as full - time.								
	Class									
Screening student	attendance	1 Res		search		Practical training				
work (name the proportion of ECTS	Experimental	(nerimental		nort		Decearch namer				
credits for each	work	rk		port		Research paper				
activity so that the	Essay			minar	1					
total number of ECTS credits is	essay				4					
equal to the ECTS	Tests		Ora	al exam	1					
value of the course)	Written exam		Pro	ject						
	Grading elements S			Suc	Success (min.%) Percentege i					
	Class attendar	nce		95		50				
	Essay									
	Završna procje	ena							ı	
	Verification i	ndicator	c _	Suc	cess (min.º	0/_1	Percent	ogo in	1	
	Verification indicators - final exam			ouccess (IIIII.)		grade (_		
Grading and	Previous activ			100			50			
evaluating student	(including all continuous									
work in class and at	check indicators)			05			20			
the final exam	Elementary concepts			95 50		20 30				
	Exam (written or oral) 50 30 Grading - minimum for passing the exam: 50%									
	Orading - Infilition to passing the exam. 50%									
	Points (%)	(%) Cı			Criteria		Grade			
	0- 49	Does	not i	meet the m	minimum Incuf		fficient (1)			
		Does not meet the			minimum mounicient (1			,		
		criteria								
	50-64	Meets the Minimum Criteria) Sufficient (2								

	65-79	Average success with	Good (3)				
	00 7 0						
		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)		rtificial intelligence, s, Routledge, 2012, New York					
	structures a problem so	rge, Artificial intelligence – and strategies for complex lving, 1989, sixth edition					
		rvig, P., Artificial Intelligence – approach, 2016., England					
Optional literature (at the time of submission of study programme proposal)	Artificial intelligence for Europe - https://eur-lex.europa.eu/legal-content/HR/TXT/?uri=CELEX%3A52018DC02373 Naval Artificial Intelligence - https://www.researchgate.net/publication/318655874_Naval_Artificial_Intelligence						
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)							