Basic data of the subject				
University:	University o	of Applied So	ciences in Ferizaj	
Academic unit:	Faculty of E	Ingineering a	and Informatics	
Program:	Applied Info	ormatics		
Title of the subject:	Artificial In	telligence		
Level:	Bachelor			
Course Status:	Obligatory			
Year of studies:	III, Semeste	r VI		
Number of hours per week:	3			
Value of Credits - ECTS:	5			
Time / location:				
Course lecturer:				
Contact details:				
Course Description:	Intelligence a wide rang research to	techniques au ge of concep probabilistic le range of ap	n initial study of nd applications. The tual approaches, fi reasoning and ma plications, from una ion.	e course will cover rom combinatorial cchine learning, as
Objectives of the course:	can behave environment, achieve thos	rationally planning t e goals. Lec	ntelligence (AI) is to in the real world heir goals, and a tures will emphasiz to the history of the	by sensing their cting optimally to ze no not only the
Expected learning outcomes:	 Upon completion of this course the student will be able to: Understand the foundations, evolution, and concepts of Artificial Intelligence (AI) Identify and describe the different models in AI, their differences. Familiar with key technologies and standards in the field of AI Describe the motivation, current situation and future trends in AI Apply and practice learning through project forms and / 			
Prerequisites:	or case studies. Knowledge of computer science and mathematics, as well as a general understanding of programming concepts. Students should be familiar with logic and discrete mathematics, as well as have basic knowledge of programming.			
Contribution to the student load (which must correspond with learning outcomes)				
Activity		Hour	Day/Week	In total
Lectures with numerical exercise	es	3	15	45
Internship				

Contacts with teacher / consulta	tions					
Field exercises						
Midterm, seminars and projects.		3	2	6		
Homework						
Self-learning time student (at the library or		3	15	45		
at home)						
Final preparation for the exam		7	2	14		
Time spent on evaluation (tests, quiz and						
final exam)	-					
Projects and presentations.		3	5	15		
Total				125		
Teaching methodology:	The course	e is a con	nbination of lectu	ures, discussions,		
			and laboratory exer	0		
	-		essor of the subject of	and the assistant in		
	the laborato					
Assessment methods:			be assessed one of	the two forms of		
	assessment,	•	.111	•		
			th colloquiums and	project		
	2. FOIM 2. E	zvaluation wit	th the final exam.			
	Form 1:					
		orm of assessi	nent "Assessment w	with colloquiums		
			form of assessment "Assessment with colloquiums t" the student is assessed in four activities that are			
		luring the lec	•			
		•	%), individual asses	sment		
	2. Colle		Colloquium 2 (35%), individual assessment			
			Class activity (10%), individual assessment			
4. Proj If the studen		oject (20%), group assessment.				
		nt is not satisfied with the assessment achieved				
	U	v	he can undergo the			
	according to	form 2 to ob	tain a higher assess	ement.		
	Earny 2					
	Form 2:	final aram +	he student and ashi	wa a maximum of		
	•	•	he student can achie e total of 100 points	•		
	70700j ine p	onis from m	e ioidi of 100 points	•		
	The rest of th	he 20% noint	s must be completed	l by group work in		
	v	*	rried out during the			
	In Colloquiu	um 1, Colloqu	ium 2 and the final	exam, the		
	evaluation of	f the students	will be done throug	gh an evaluation		
	form, which	must be comp	oleted individually b	y the student. The		
	•		ain 5 tasks through			
	student's lea	rning outcom	es will be evaluated	<i>l</i> .		
	Activity in th	ne class mean	s the student's engaged	gement in dealing		

	with the issues discussed in the class, during the lectures.				
	Project (20%), group assessment: it is an activity in which students apply the acquired knowledge in a concrete project. It is carried out in groups of 3 or 4 students who are obliged to carry out the activity, document and present it to the subject professor.				
	Rating:				
	91-100 points – graded 10 (ten) 81-90 points – graded 9 (nine) 71-80 points – grade 8 (eight) 61-70 points – grade 7 (seven) 51-60 points – grade 6 (six) 0-50 points – The student repeats the exam				
The ratio of theory and	70% theory with exercises and 30% laboratory work.				
practice: Literature					
Basic Literature:	1. Stuart Russell and Peter Norvig, Artificial				
	 Intelligence: A Modern Approach, 3rd edition, Prentice Hall, 2010. 2. David L. Poole and Alan K. Mackworth, Python code for Artificial Intelligence: Foundations of Computational Agents, 2018. 				
Additional Literature:	 David L. Poole and Alan K. Mackworth, Foundations of Computational Agents 2nd edition, Cambridge University Press, 2017. Stuart Russell and Peter Norvig, Artificial Intelligence: A Modern Approach, 2rd edition, Prentice Hall, 2005. 				
Designed learning plan					
Week:	Lectures and exercises to be held				
Week one:	Introduction to the syllabus (chapter 1) Introduction Artificial Intelligence Questions from chap. 1 (literature 1) Laboratory exercises from chap. 1 (literature 2)				
Week two:	Concepts and background (chapter 1) Questions from chap. 1 (literature 1) Laboratory exercises from chap. 1 (literature 2)				
Week three:	Agents (Chapter 2) Questions from chap. 2 (literature 1) Laboratory exercises from chap. 2 (literature 2)				
Week four:	Research (Chapter 3) Introduction Questions from chap. 3 (literature 1)				

	Laboratory exercises from chap. 2 (literature 2)
Week five:	Problem solving through research (chapters 3.1-3.4)
	Uninformed search
	Questions from chap. 3 (literature 1)
	Laboratory exercises from chap. 3 (literature 2)
Week six:	Problem solving through search (chapters 3.5-3.6)
	Informed search
	Questions from chap. 3 (literature 1)
	Laboratory exercises from chap. 3 (literature 2)
Week seven:	Problem solving through search (Chapter 6)
	Restriction compliance problems
	Questions from chap. 6 (literature 1)
	Laboratory exercises from chap. 4 (literature 2)
Week eight:	First Evaluation
Week nine:	Problem solving through search (Chapter 6)
	Restriction Completion Problems (cont.)
	Questions from chap. 6 (literature 1)
	\widetilde{L} aboratory exercises from chap. 5 (literature 2)
Week ten:	Planning (Chapter 10)
	Questions from chap. 10 (literature 1)
	Laboratory exercises from chap. 5 (literature 2)
Week eleven:	Opposing search (chapters 5.1-5.4)
	Questions from chap. 5 (literature 1)
	Laboratory exercises from chap. 6 (literature 2)
Week twelve:	Stochastic search and stochastic games (chapters 5.5-5.6)
	Learned evaluation functions
	Questions from chap. 5 (literature 1)
	Laboratory exercises from chap. 6 (literature 2)
Week thirteen:	Game theory (chapters 17.5, 17.6)
	Questions from chap. 17 (literature 1)
	\widetilde{L} aboratory exercises from chap. 7 (literature 2)
Week fourteen:	Probability (Chapter 13)
	Questions from chap. 13 (literature 1)
	Laboratory exercises from chap. 8 (literature 2)
Week fifteen:	Second Evaluation
Academic policies and r	
<u> </u>	ations and anomalians is non-assessment as well as active nonticipation with

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.