Program	Level		Seco	Second cycle			
	Name o	f the program	The	eoretical Computer Science			
COURSE							
Course title	Artificial Intelligence						
Course code	Semester	Courses	status	ECTS	Co	ontact hours (L+.	AE+LE)
CS 475	II	Mandatory cours		7		2+2-	+1
Lecturer							
Course Goals	The objectives of the module are for students to define the basic terms of artificial intelligence, to differentiate symbolic and connectivist approaches to artificial intelligence, to implement algorithms for state space searches and nature-inspired optimization and apply them to simpler problems, apply logic programming to solve simpler ones logical problems, implement simpler automatic inference procedures and apply them to simpler logical problems and compare different approaches to rendering of vague knowledge to evaluate the applicability of certain approaches of artificial intelligence on the given problem to summarize the possibilities, limitations and philosophical aspects of artificial intelligence						
Learning Outcomes	Through the mentioned module, students will master through independent work on laboratory exercises and implement state space search and nature-inspired optimization algorithms and apply them to simpler problems, apply logic programming to solve them simpler logical problems, implement simpler automatic procedures conclusions						
COURSE CONTENT							
 Philosophical aspects Philosophical aspects State space search, Directed search and gaming Displaying knowledge Reasoning with propositional logic Reasoning with predicate logic Logic programming in Prolog Rule-based systems Fuzzy logic and reasoning Nature-inspired algorithms Connectivist approaches Introduction to neural networks Algorithms in neural networks ILTERATURE [1] Lecture notes. [2] Stuart Russel, Peter Norvig: Artificial Intelligence A Modern Approach, Prentice Hall, 2009 (1995). [3] Elaine Rich, Kevin Night: Artificial Intelligence, McGraw-Hill, 1990. [4] Rolf Pfeifer and Christian Scheier: Understanding Intelligence, MIT Press, 1999. [5] George F. Luger: Artificial Intelligence: Structures and Strategies for Complex Problem Solving. Addison-Wesley, 2008. [6] Blay Whitby: Articial Intelligence, Oneworld Publications, 2003							
STUDENT WORKLOAD (hours in a semester)							
Lectures	30	Exercises	45	Individual work	100	Total	175
	GRADI	ING			RI	EMARKS	
Criterion Maximum points 5			Minimum points				
Homeworks		- 5	3	-			
Drojosts		<u> </u>	<u> </u>	-			
Projects		40 -	21	4			
Seminar paper		5	3	4			
Final exam		45	3				
Total		100	55				