

	KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI	Projekt współfi Unię Europe Europejskie Społe	nansowany pr. ijską w ramacł igo Funduszu icznego	zez h EUROPEJSKA EUROPEJSKI FUNDUSZ SPOŁECZNY	* * * * * * * * *	
Course title			E	ECTS code		
Logic Programming				11.3.1524		
Name of unit admini	strating study					
Faculty of Mathema	atics, Physics and Informatic	S				
Studies						
faculty field of study		type	type second tier studies (MA)			
Faculty of Mathematic	s, Informatics	form	form full-time			
Physics and Information	s	specialization	all		1	
Teaching staff						
prof. UG, dr hab. C	hristoph Schwarzweller					
Forms of classes, th	e realization and number of	of hours	F	ECTS credits		
Forms of classes				7		
Laboratory classes, Lecture				Course of 30 hours of lecture and 30 hours of		
The realization of activities			laboratory + own work.			
classroom instruction						
Number of hours						
Lecture: 30 hours,	Laboratory classes: 30 hours	S				
The academic cycle						
2021/2022 summer	rsemester					
Type of course			Language of instruction			
an elective course			nolish			
Teaching methods			Form and method of assessment and basic criteria for eveluation or			
conducting experiments			examination requirements			
- conducting experiments			Final evaluation			
- multimedia-based lecture			- Graded credit			
			- Examination			
			Assessment methods			
			- written exam with open questions			
			- written exam (long written answer/problem solving)			
			The basic criteria for evaluation			
			colloquium after the laboratory			
Mathed store if i	nonvino di la construcción de la	written exa	3m			
Required courses or	required learning outcome	is nte				
A Formel reminer						
A. Formal requirements						
b. Frerequisites	nts					
Aims of education						
Introduction to logic programming using Prolog						
Course contents	ing the second sec					
1. Indroduction						
2. Introduction to Prol	og					
3. Theoretical basics	of logic programming					
4. More language ele	ments of Prolog					



5. More techniques and applications of logic programming						
Bibliography of literature						
Bibliography of literature   1. Bratko; Prolog - Programming for Artificial Intelligence   2. Lloyd; Foundations of Logic Programming   3. O'Keefe; The Craft of Prolog   4. Sterling, Shapiro; The Art of Prolog   The learning outcomes (for the field of study and specialization)   K_W02: has in-depth knowledge of formal languages, calculation models and computational complexity issues; knows the formal apparatus allowing for the formulation and testing of the properties of IT objects   K_W03: has in-depth knowledge of programming paradigms and advanced programming constructs; knows the current trends in programming languages   K_W04: knows complex data structures and advanced methods of algorithmic solving of computationally difficult problems (exponential algorithms, approximation, heuristics)	Knowledge   Student:   knows paradigm logic programming   knows model logic programming   knows programming language Prolog   Skills   Student:   programs algorithms using the declarative programming paradigm   is able to solve problems using logic programming   can formulate problems in the way necessary for logic programming   Student:   Student:   programs algorithms using logic programming   can formulate problems in the way necessary for logic programming   Student:					
K_W06: knows well the rules of occupational health and safety in the IT profession	is able to use english literature					
K_U03: designs, analyzes in terms of correctness and computational complexity and builds algorithms using advanced programming techniques and data structures						
Contact						
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