

Subject card

Subject name and code	Introduction to Logic Programming, PG_00210601						
Field of study	Informatics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		6.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Division of Artificial Intelligence -> Institute of Informatics -> Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Christoph Schwarzweller, prof. UG				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	60		0.0		0.0	60
Subject objectives	Introduction to logic programming with Prolog						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[INFMU2_W03] has in-depth knowledge of programming paradigms and architectures and advanced programming constructs; knows current trends in programming languages		Student has knowledge of the "Logic Programming" paradigm		[SW4] test/exam - oral or written		
	[INFMU2_U03] can design and analyze computational complexity and build algorithms		Student analyzes programs in Prolog (SLD trees)		[SU4] test/exam - oral or written		
	[INFMU2_U03] designs, analyzes for correctness and computational complexity, and builds algorithms using advanced programming techniques and data structures		The student designs algorithms in Prolog.		[SU4] test/exam - oral or written		
	[INFMU2_W03] has in-depth knowledge of programming paradigms and advanced programming constructs; knows current trends in programming languages		The student knows the logic programming model and its implementation in Prolog.		[SW4] test/exam - oral or written		

Subject contents	1. Introduction		
	2. Introduction to Prolog		
	3. Theoretical basics of Logic Programming		
	4. Further elements of Prolog		
	5. Logic Programming techniques and applications		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%
Recommended reading	Basic literature	I. Bratko, Prolog - Programming for Artificial Intelligence	
	Supplementary literature	S. Reeves, M. Clarke, Logic for Computer Science	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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