

Subject card

Subject name and code	Introduction to Declarative Programming , PG_00168384						
Field of study	Informatics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	Bachelor'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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		5.0		
Learning profile	practical		Assessment form		exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Christoph Schwarzweller				
	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 declarative programming with Scheme and Prolog						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[INFL3_W03] has ordered knowledge in software engineering and project management methodologies, IT project life cycle, software specification, validation and verification, design patterns		Student designs basic algorithms in Scheme and Prolog.		[SW4] test/exam - oral or written		
	[INFL3_U08] assesses the usefulness of various paradigms and related programming tools to solve various types of problems		Student knows declarative programming techniques.		[SU4] test/exam - oral or written		
	[INFL3_W04] has ordered, theoretically founded knowledge in programming, algorithms and complexity, programming languages and paradigms		Student knows declarative programming paradigm.		[SW4] test/exam - oral or written		
Subject contents	1. Introduction 2. Scheme: Programming with functions, Higher-order functions, evaluation model 3. Prolog: Programming predicates programming with terms, cut and negation						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exam	51.0%	100.0%
Recommended reading	Basic literature	H. Abelson, J. Sussman, Structure and Interpretation of Computer Programs	
		I. Bratko, Prolog - Programming for Artificial Intelligence	
	Supplementary literature	Manuals and Tutorials	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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