

Subject card

Subject name and code	Functional Programming, PG_00210611						
Field of study	Informatics						
Date of commencement of studies	October 2025		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	2		Language of instruction		Polish		
Semester of study	3		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 Functional Programming based on Haskell						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[INFMU2_W03] has in-depth knowledge of programming paradigms and advanced programming constructs; knows current trends in programming languages		Student knows the functional programming model.		[SW4] test/exam - oral or written		
	[INFMU2_U03] designs, analyzes for correctness and computational complexity, and builds algorithms using advanced programming techniques and data structures		Student designs functional algorithms in Haskell.		[SU4] test/exam - oral or written		
Subject contents	1. Introduction 2. Introduction to the Haskell Programming Language 3. Types and Type Classes in Haskell 4. Fundamentals of Functional Programming 5. Techniques and Applications of Functional Programming						

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	Hutton; Programming in Haskell Tompson	
	Supplementary literature	Haskell: The Craft of Programming Bird; Introduction to Functional Programming	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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