

Subject card

Subject name and code	Programming Languages, PG_00155315						
Field of study	Mathematical Modeling and Data Analysis						
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025	
Education level	Bachelor's studies		Subject group			Obligatory subject group in the field of study	
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			2.0	
Learning profile	academic		Assessment form			credit	
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Piotr Szuca				
	Teachers		dr hab. Piotr Szuca				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		5.0		15.0	50
Subject objectives	Not applicable						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MMiADL3_U09] is able to use the learned software package or the learned programming language to solve selected problems from the known fields, in particular from mathematical analysis, linear algebra and statistics	Not applicable	[SU2] presentation/project/paper/report
	[MMiADL3_U10] is able to recognise problems, including practical issues, that can be solved algorithmically; can make a specification of such a problem	Not applicable	[SU4] test/exam - oral or written
	[MMiADL3_U11] knows how to arrange and analyse an algorithm in accordance with the specification and save it in the selected programming language	Not applicable	[SU4] test/exam - oral or written
	[MMiADL3_W09] knows and understands the basics of computational and programming techniques supporting mathematician's work and understands their limitations	Not applicable	[SW4] test/exam - oral or written
	[MMiADL3_K03] is ready to work in a team; understands the need for systematic work on all projects that have a long-term character	Not applicable	[SK8] observation of student's independent or team work
	[MMiADL3_U12] can compile, run and test a self-written computer programme	Not applicable	[SU2] presentation/project/paper/report
Subject contents	Not applicable		
Prerequisites and co-requisites	Not applicable		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Not applicable	100.0%	0.0%
	Not applicable	50.0%	50.0%
	Not applicable	50.0%	50.0%
Recommended reading	Basic literature	Not applicable	
	Supplementary literature	Not applicable	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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