



Subject card

Subject name and code	PROGRAMMING ELEMENTS, PG_00061363						
Field of study	Engineering Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		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		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	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		40.0	75
Subject objectives	Creates simple computer programs using reliable information						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U02] prepares and presents convincing, professional presentations of the results of its activities, with their advanced interpretation		creates simple Python programs interpreting their functioning		[SU4] Assessment of ability to use methods and tools		
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues		uses reliable sources of information that meet the requirements of the programmed algorithm		[SW1] Assessment of factual knowledge		
Subject contents	Methods of computational thinking - basic concepts Algorithms and software life cycle Elements of programming Arithmetic operators Using Variables Use of data Logic Iteration Procedures and functions Recursive functions Events Lists, tuples, arrays and dictionaries File suport object-oriented programming Testing, debugging and production						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Laboratory tasks		60.0%		100.0%		
Recommended reading	Basic literature		M.Sysło, Algorytmy, Helion, Gliwice 2016, M.Lutz, Python. Wprowadzenie, wyd IV, Helion, Gliwice 2010 M.Lutz, Python. Leksykon kieszonkowy, wyd V, Helion, Gliwice 2014				
	Supplementary literature		Python 3. Proste wprowadzenie do fascynującego świata programowania - Red A. Shaw				
	eResources addresses		Adresy na platformie eNauczanie:				

Example issues/ example questions/ tasks being completed	What are the characteristics of computational thinking? Write a program that displays 10 stars on the screen. Use a control statement (loop) Write a program that calculates how many prime numbers there are in
Work placement	Not applicable

Document generated electronically. Does not require a seal or signature.