

## Subject card

Subject name and code	PROGRAMMING ELEMENTS, PG_00061472							
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	Part-time studies (on-line)		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							
Name and surname	Subject supervisor dr inż. Tomasz Deręgowski							
of lecturer (lecturers)	Teachers			_				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	0.0	0.0	16.0	0.0		0.0	16
	E-learning hours inclu			İ				
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	16		5.0		54.0		75
Subject objectives	Creates simple computer programs using reliable information							
Learning outcomes	Course outcome Subject outcome Method of verification					fication		
	[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		
	[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		
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 Laboratory tasks		Pass 60.0%	Passing threshold		Percentage of the final grade 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 addresse	es	Adresy na platformie eNauczanie:					

Data wygenerowania: 13.03.2025 01:27 Strona 1 z 2

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.