

Subject card

Subject name and code	Programming Elements, PG_00044762							
Field of study	Engineering Management							
Date of commencement of studies			Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific research 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			ECTS credits			3.0		
Learning profile			Assessment form			assessment		
Conducting unit	Department of Inform	Department of Informatics in Management -> Faculty of Management and Economics						
Name and surname	Subject supervisor		mgr Jaromir Durkiewicz					
of lecturer (lecturers)	Teachers		mgr Jaromir [Durkiewicz				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct 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 classes including plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		6.0		39.0		75
Subject objectives	placed on gaining practical skills. As part of the course, students work in a computer lab and at their home. Independent work with a computer is interwoven with theoretical parts. Classes are taught in Python. Thanks to its design, structure and large number of available libraries Pytis widely applied in scientific and business domains.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
Learning outcomes	[K6_U09] obtains data for analysis		•			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
	[K6_W05] knows the statistical and IT methods and tools that enable the acquisition and presentation of data on the organisation's resources, including technical resources		The student have to choose technology relevant to given situation.			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	 Elementary programming knowledge: Working environment, input and output, names and values, datatypes, operators, strings, conditionals, iteration, functions, files, etc. Algorithms and programming - theory Bulit-in datatypes Mathematics, statistics, logic Object-oriented programming Functional programming Graphical User Interface 							

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Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	2 tests and 1 oral answer	60.0%	100.0%			
Recommended reading	Basic literature	 A.Hodorowicz, ECDL S10. Podstawy programowania w języku Python, WN PWN, Warszawa 2019. M.Sysło, Algorytmy, Helion, Gliwice 2016. A. Zed A. Shaw, Python. Proste wprowadzenie do fascynującego świata programowania, 2018. P. Wróblewski, Algorytmy, struktury danych i techniki programowania, wyd. Helion, Gliwice 1997. M.Kubale, Łagodne wprowadzenie do analizy algorytmów, wyd. PG, Gdańsk 2021. 				
	Supplementary literature	 M.Lutz, Python. Wprowadzenie, wyd IV, Helion, Gliwice 2010. M.Lutz, Python. Leksykon kieszonkowy, wyd V, Helion, Gliwice 2014. Zed A. Shaw, Learn Python 3 the Hard Way: A Very Simple Introduction to the Terrifyingly Beautiful World of Computers and Code 				
	eResources addresses	Adresy na platformie eNauczanie: Elementy programowania, ZiE, 2023 - STAC - Moodle ID: 28637 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28637				
Example issues/ example questions/ tasks being completed	What are key elements of computational thinking? Write a program that displays 10 stars on the screen. Use the loop instruction. Write a program that will calculate how many primes are in the range					
Work placement	Not applicable					

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