

Subject card

Subject name and code	Programming Elements, PG_00044762								
Field of study	Engineering Management								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
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			e-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic pro	eneral academic profile Assessment form			assessment				
Conducting unit	Department of Inform	atics in Manag	gement -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Tomasz Deręgowski							
	Teachers		dr inż. Tomas						
			mgr inż. Lesz						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours included: 30.0								
	Adresy na platformie eNauczanie: Elementy programowania - Moodle ID: 14178 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14178								
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		6.0				75	
Subject objectives	The course introduces participants to the subject of writing computer programs. Particular emphasis is placed on gaining practical skills. As part of the course, students work in a computer lab and at home (online). Independent work with a computer is interwoven with lectures introducing new issues and quizzes systematizing knowledge. Classes are taught in Python using the Jupyter notebook. Thanks to its simple structure and a large number of libraries Python has a very wide application in scientific applications.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_U09] obtains data for analysis and interpretation of results using information technology		The student can write a simple program, choose the appropriate data structures.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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 can choose technology relevant to given situation.			[SW3] Assessment of knowledge contained in written work and projects			

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Subject contents							
2. Algorithmic 3. Programmi 4. Arithmetic of 5. Using varia 6. Use of data 7. Logic 8. Iteration 9. Procedures 10. Recursive f 11. Events 12. Letters, tup 13. File Handlir 14. Object-orier	 Algorithmics and software life cycle Programming elements: Arithmetic operators Using variables Use of data Logic Iteration Procedures and functions Recursive functions 						
Prerequisites and co-requisites							
	assing criteria	Passing threshold	Percentage of the final grade				
and criteria Work during lat	poratories and at	60.0%	100.0%				
Recommended reading Basic literature		2. M.Lutz, Python. Wprowadzenie	I.Sysło, Algorytmy, Helion, Gliwice 2016, I.Lutz, Python. Wprowadzenie, wyd IV, Helion, Gliwice 2010 I.Lutz, Python. Leksykon kieszonkowy, wyd V, Helion, Gliwice 014.				
eResources add		Learn Python 3 the Hard Way: A Very Simple Introduction to the Terrifyingly Beautiful World of Computers and Code - Zed A. Shaw Podstawowe https://pl.python.org/docs/tut/tut.html - Technical documentation: https://docs.python.org/3/ Elementy programowania - Moodle ID: 14178					
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14178						
example questions/ tasks being completed Write a progra	ım that displays 10	nts of computational thinking? nat displays 10 stars on the screen. Use the loop instruction. nat will calculate how many primes are in the range <x; y=""></x;>					
Work placement Not applicable	Not applicable						

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