

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Spreadsheets, PG_00044129							
Field of study	Mathematics							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies		Subject group			Optional subject group 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	2		Language of instruction			Polish		
Semester of study	4		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Faculty of Applied Physics and Mathematics							
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Anna Szafrańska						
	Teachers		dr inż. Anna Szafrańska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ject Seminar		SUM
	Number of study hours	30.0	0.0	15.0	15.0		0.0	60
	E-learning hours included: 0.0							
	Adresy na platformie eNauczanie: Arkusze kalkulacyjne 2024/2025 - Moodle ID: 44179 https://enauczanie.pg.edu.pl/moodle/course/view.php? id=44179							
Learning activity and number of study hours	Learning activity Participation ir classes includ plan				Self-study		SUM	
	Number of study hours	60		5.0		35.0		100
Subject objectives	In the course, students will learn (theoretically and practically) about advanced functions of spreadsheets (Excel 2016) with particular emphasis on the VBA language.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_W08		The student uses advanced tools available in Excel. Can use VBA to analyze data.			[SW1] Assessment of factual knowledge		
	K6_U12		The student analyzes the data using statistical functions available in Excel.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	K6_U10		functions in Excel and program in			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
Subject contents	Spreadsheet History. Data types and cell formatting. Data visualization (conditional formatting, sorting, subtotals, charts). Pivot tables and charts. Data analysis in a spreadsheet (including mathematical and statistical functions). Macros. Cooperation with databases.							
Prerequisites and co-requisites	Knowledge of the bas	sics of Excel fro	om the subject	of Information	Technol	ogies.		
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	project		50.0%			40.0%		
	laboratory					40.0%		
	test (theory)		50.0%			20.0%		

Recommended reading	Basic literature	John Walkenbach, Excel 2016 PL. Biblia, Helion, Gliwice 2016 Michael Alexander, Richard Kusleika, Excel 2016 PL. Programowanie w VBA. Vademecum Walkenbacha, Helion, Gliwice 2017		
	Supplementary literature	Piotr Walędziak, Excel. Nauka na przykładach, 2018		
	eResources addresses	Arkusze kalkulacyjne 2024/2025 - Moodle ID: 44179 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44179		
Example issues/ example questions/ tasks being completed	Sort the table in multiple levels. Use conditional formatting to highlight certain table elements. Draw and format a chart.			
Work placement	Not applicable			

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