

Subject card

Subject name and code	Spreadsheets, PG_00044129							
Field of study	Mathematics							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023		
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	Subject supervisor		dr inż. Anna Szafrańska					
of lecturer (lecturers)	Teachers		dr inż. Anna Szafrańska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	0.0	15.0	15.0		0.0	60
	E-learning hours included: 0.0 Additional information: E-Learning course (lecture, laboratory, project): https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29021							
Learning activity and number of study hours	Learning activity Participation in classes include plan					Self-study S		SUM
	Number of study 60 hours		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_U10		The student can use advanced functions in Excel and program in VBA (Visual Basic for Applications).			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	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.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
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		50.0%		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					

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	Supplementary literature	Piotr Walędziak, Excel. Nauka na przykładach, 2018					
	eResources addresses	Podstawowe					
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29021 - E- Learning course (lecture, laboratory, project):					
		Adresy na platformie eNauczanie:					
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						

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