

Subject card

Subject name and code	Spreadsheets, PG_00044129								
Field of study	Mathematics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
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 P	hvsics And Mat	hematics -> Wydziały Politechniki Gd			ańskiei			
Name and surname	Subject supervisor	dr inż. Magda Dettlaff							
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Project Se		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:								
Learning activity and number of study hours	Learning activity	Participation i classes including plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	· · · · · · · · · · · · · · · · · · ·		5.0		35.0		100	
Subject objectives	In the course, studer (Excel 2016) with part				out adva	inced fu	ınctions of sp	readsheets	
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					[SW1] Assessment of factual knowledge			
	K6_U12		using statistical functions available			[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 ba	sics of Excel fro	om the subject	of Information ⁻	Technol	ogies.			
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	test (theory)		45.0%		25.0%				
	laboratory		45.0%		40.0%				
	project		45.0% 35.0%						
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 address	es							
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Example lecaes	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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