



## Subject card

Subject name and code	Statistics I, PG_00025517						
Field of study	Mathematics						
Date of commencement of studies	October 2024	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			blended-learning		
Year of study	3	Language of instruction			Polish		
Semester of study	5	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Nonlinear Analysis and Statistics -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Karol Dziejduł					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	E-learning hours included: 15.0						
	Adresy na platformie eNauczanie:						
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	5.0	15.0	50		
Subject objectives	An introduction to statistics and a connection between a modern country and statistics						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_U10	Simple algorithms are implemented in both the R and SAS packages			[SU1] Assessment of task fulfilment		
	K6_U11	it is basically a misunderstanding of confusing a priori and a posteriori approaches. Unfortunately, it takes a lot of effort to convince students that both approaches are democratic			[SU2] Assessment of ability to analyse information		
	K6_W05	In fact, all student needs to do is understand the positivity paradox, the Simpson paradox, and the concepts of true positive and true negative.			[SW1] Assessment of factual knowledge		
Subject contents	<a href="http://www.mif.pg.gda.pl/homepages/kdz/diagnostics/diagnostic.pdf">http://www.mif.pg.gda.pl/homepages/kdz/diagnostics/diagnostic.pdf</a>						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
		50.0%			100.0%		
Recommended reading	Basic literature	Alan Agresti, An Introduction to Categorical Data Analysis Wiley - Interscience 2007.					
	Supplementary literature	Trevor Hastie, Robert Tibshirani, Jerome Friedman. "The Elements of Statistical Learning: Data Mining, Inference, and Prediction." Second Edition Wersja internetowa legalna <a href="http://www-stat.stanford.edu/tibs/ElemStatLearn/">http://www-stat.stanford.edu/tibs/ElemStatLearn/</a>					

	eResources addresses	
Example issues/ example questions/ tasks being completed	Logistic regression is used in the problem of crab's satellites. The best model is chosen using Akaike information methods.	
Work placement	Not applicable	