



## 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 -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Karol Dziedziul				
	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						
	Address on the e-learning platform: <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26394">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26394</a> 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 contry and staistics						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	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		
	K6_U11		is understand the positivity paradox, the Simpson paradox, and the concepts of true positive and true negative.		[SU2] Assessment of ability to analyse information		
	K6_U10		Simple algorithms are implemented in both the R and SAS packages		[SU1] Assessment of task fulfilment		
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 AnalysisWiley - 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	

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