GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Statistics I, PG_00025517		
Field of study	Mathematics		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2023/2024
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	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 Dziedziul	
	Teachers	dr inż. Krzysztof Świetlik dr hab. Karol Dziedziul	

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: 0.0

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_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

http://www.mif.pg.gda.pl/homepages/kdz/diagnostics/diagnostic.pdf

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 http://www-stat.stanford.edu/ tibs/ ElemStatLearn/
	eResources addresses	Adresy na platformie eNauczanie:
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	