

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	SAS statistics , PG_00027638								
Field of study	Mathematics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028			
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	6		ECTS credits			4.0			
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	Subject supervisor		dr hab. Karol Dziedziul						
of lecturer (lecturers)	Teachers	1					-		
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	E-learning hours included: 2.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation ir classes includ plan				Self-study SUM		SUM		
	Number of study hours	60		5.0		35.0		100	
Subject objectives	The aim of the subject is to teach students the chosen methods and tools which the mathematical statistics offers and providing them with examples of various real life applications. Students will also learn how to use SAS package to carry out all the necessary calculations.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U12					[SU1] Assessment of task fulfilment			
	K6_W09		Students can use the SAS package to data processing using GLM, decision trees			[SW1] Assessment of factual knowledge			
	K6_U07		Students only work on real data. Their task is to choose the best model			[SU1] Assessment of task fulfilment			
Subject contents	Indeci I								
Prerequisites and co-requisites	1. Probability theory 2. Programming in SAS								
Accompant methods									
Assessment methods and criteria	Subject passing criteria Points achieved on lectures 50%. + points on lab 50%		Passing threshold 60.0%			Percentage of the final grade 100.0%			

Recommended reading	Basic literature	 J. Bartos, W. Dyczka, W. Krysickit Rachunek Prawdopodobieństwa i Statystyka Matematyczna w Zadaniach część 2 Wydawnictwo Naukowe PWN Robert S. Witte, John S. Witte. Statistics, Hoboken, NJ : John Wiley & Sons Inc., 2017.Wydanie 11 L. Breiman, J. Friedman, R. Olshen, and C. Stone. Classification and Regression Trees Chapman \& Hall/CRC, [post 2005]. 			
		 Bradley Efron, Trevor Hastie. Computer Age Sta-tistical Inference Algorithms, Evidence, and Data Science Cambridge University Press 2016 De Jong, P., & Heller, G. (2008). Generalized Linear Models for Insurance Data (International Series on Actuarial Science). Cambridge: Cambridge University Press. 			
	Supplementary literature eResources addresses	J. Bartoszewicz, Wykłady ze statystyki matematycznej, PWN, Warszawa 1996.			
Example issues/ example questions/ tasks being completed	 Tests for the equality of two means and two variances, ANOVA. Understanding the results obtained by SAS modeling with GLM 				
Work placement	Not applicable				

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