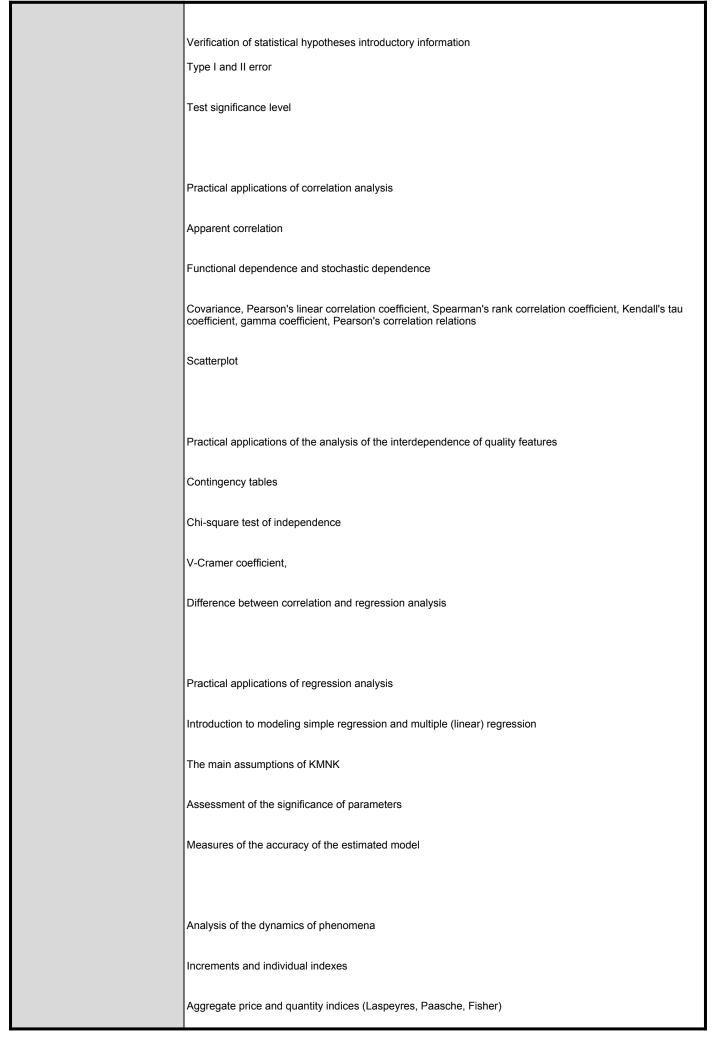


Subject card

Subject name and code	Descriptive Statistics, PG_00068017								
Field of study									
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study 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	1		Language of instruction			Polish	Polish		
Semester of study	2		ECTS credits			4.0	4.0		
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department Of Statistics And Econometrics -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers								
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: 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 S		SUM	
	Number of study hours	60 5		5.0		35.0		100	
Subject objectives	Selects an appropriate methodology for testing regularities occurring in mass processes, using statistical software to process data and interpret obtained results.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U07] uses advanced information technologies to enhance data analysis and management processes.					[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[K6_W02] possesses advanced knowledge of methods and techniques that enable precise formulation and effective problem solving.		1 ' ' ' ' '			[SW3] Assessment of knowledge contained in written work and projects			

Subject contents	Population and sample
	Full and partial tests
	Random and non-random selection methods
	Classification of statistical characteristics
	The concept of a random variable and basic information about distributions (discrete, continuous)
	(
	Importance of measures of central tendency
	Differences between classic and positional measures
	Arithmetic mean, harmonic mean, median, dominant, quartiles, percentiles
	Importance of measures of variation
	Variance, standard deviation, coefficient of variation, quadrant deviation, positional coefficient of variation,
	range, decile range
	Box-and-whisker plot
	Box and initially plot
	Importance of asymmetry measures
	Third central moment, asymmetry coefficient, positional asymmetry coefficient
	Examples of asymmetric distributions
	Examples of asymmetric distributions
	Importance of measures of distribution flattening
	Fourth central moment, kurtosis, positional concentration coefficient
	Statistical parios
	Statistical series
	Histogram
	Distributor
	Central Limit Theorem



	Time series					
	Time series of periods and moments					
	Time series components (trend, seasonal, cyclical and random fluctuations)					
	,					
	Trend extraction (mechanical and analytical method)					
	Simple moving average Exponential smoothing					
	Exponential smoothing					
	Modern methods of data visualization	Modern methods of data visualization				
	Errors in test preparation Errors in conducting the study Errors in the preparation of research results					
	Inference errors					
Prerequisites						
and co-requisites Assessment methods	Cubicat massing 19.1	Decimal three 1.11	Danamaga at the first			
and criteria	Subject passing criteria tutorial exam II	Passing threshold 60.0%	Percentage of the final grade 50.0%			
	written exam	60.0%	50.0%			
Recommended reading	Basic literature					
	Barrow, M. (2017), Statistics for Economics, Accounting and Business Studies, Harlow: Prentice Hall.					
	Studies, natiow. Prentice Hall.					
		Newbold, P., Carlson, W.L., Thorne, B. (2019). Statistics for Business				
		and Economics, New York: Pearson Education.				

	1			
	Supplementary literature			
		Anderson D. (2019), Essentials Of Statistics For Business &		
		Economics, Cengage Learning		
		Bąk I., Markiewicz I., Mojsiewicz M., Wawrzyniak K. (2021), Formulas		
		and tables Statistical and econometric methods, CeDeWu		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/	What is a statistical feature? Provide types of features and examples.			
example questions/	· ·			
tasks being completed				
and a sample and	The concept of general population and complete			
	The concept of general population and samples.			
	Calculation and interpretation of basic descriptive measures of distribution. Knowledge of basic distributions of a random variable. Correlation coefficient (calculation method, interpretation).			
	Assumptions of the Classical Linear Regression Model (KMRL).			
	Tools Proposition Propos	, tog. 55510115551 (t. t t.=)//		
	Time series components, trend analysis, measurement of seasonal fluctuations.			
	Simple methods of examining the dynamics of economic phenomena, absolute growth, relative growth.			
Work placement	Not applicable			
Work placement	Not applicable			

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