

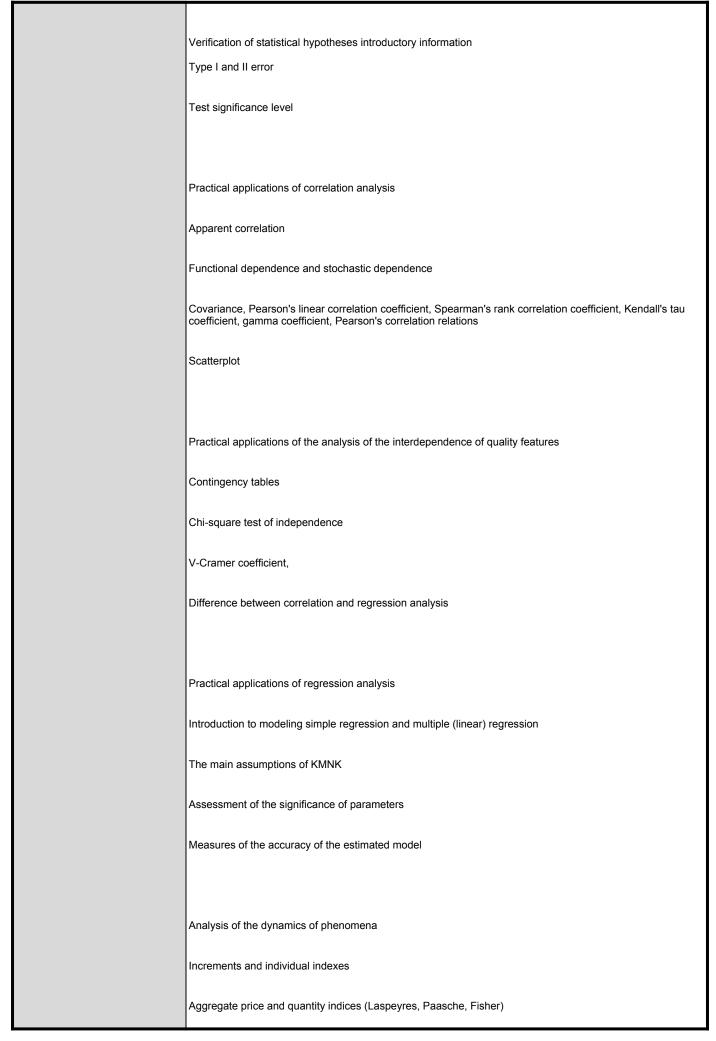
Subject card

Subject name and code	Descriptive Statistics, PG_00067773							
Field of study	Economic Analytics							
Date of commencement of studies			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		
Semester of study	2		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			assessment		
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		5.0		60.0		125
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 decision-making processes.		to enhance the analysis of large datasets, supporting decision-			[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.		formulate a problem, collect data,			[SW3] Assessment of knowledge contained in written work and projects		

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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				
	Importance of asymmetry measures				
	Third central moment, asymmetry coefficient, positional asymmetry coefficient				
	Examples of asymmetric distributions				
	Importance of measures of distribution flattening				
	Fourth central moment, kurtosis, positional concentration coefficient				
	Statistical series				
	Histogram				
	Distributor				
	Central Limit Theorem				

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	Time series					
	Time series of periods and moments					
	Time series components (trend, seasonal, cyclical and random fluctuations)					
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	Trend extraction (mechanical and analytical method)					
	S. asalon (mostamoa and analytod motiod)					
	Simple moving average Exponential smoothing					
		Situal Siriouting				
	Modern methods of data visualization	on	ı			
	Errors in test preparation Errors in conducting the study Errors in the preparation of research results					
	Inference errors					
Prerequisites						
and co-requisites Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	written exam	60.0%	50.0%			
	tutorial exam II	60.0%	50.0%			
Recommended reading	Basic literature					
	Barrow, M. (2017), Statistics for Economics, Accounting and Busines Studies, Harlow: Prentice Hall.					
		otudies, Hanow. Hientice Hall.				
		Newbold, P., Carlson, W.L., Thorne, B. (2019). Statistics for Business				
		and Economics, New York: Pearson Education.				
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	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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