

## Subject card

Subject name and code	Essentials of Statistics, PG_00037123							
Field of study	Economic Analytics							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/2022		
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			blended-learning		
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Economic Sciences -> Faculty of Management and Economics							
Name and surname	Subject supervisor dr Dagmara Nikulin							
of lecturer (lecturers)	Teachers		dr Dagmara Nikulin					
			dr inż. Krzysztof Świetlik					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0		60
	E-learning hours included: 30.0							
	Adresy na platformie eNauczanie:  Podstawy statystyki - Moodle ID: 17704  https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17704							
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	60		12.0		53.0		125
Subject objectives	<ol> <li>Introduction to basic concepts of descriptive statistics.</li> <li>Learning practical skills in statistical methods.</li> <li>Ability to analyze statistical data and formulating the correct conclusions.</li> </ol>							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_U07] Can use quantitative methods to analyse and solve economic problems using information technologies.		The student can choose the method of describing the type of data, using both accounting calculations and statistical software. He also interprets the obtained results.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		
	[K6_U13] Can improve through systematic acquisition of knowledge and skills.		The student improve their knowledge and skills by statistical analysis of economic phenomena.			[SU1] Assessment of task fulfilment		
	[K6_W09] Knows the ways and tools of acquiring and collecting data, including IT data, used in the analysis and explanation of socioeconomic phenomena and processes.		The student has a basic knowledge of the statistical behavior of economic phenomena, knows the methods and tools, including data collection techniques appropriate to create their statistical description.			[SW1] Assessment of factual knowledge		

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Subject contents	Non-parametric description of the distribution of the sample: the ranks of distribution, histogram, empirical distribution function.  Parametric description of the distribution of the sample: measures of location, variability, asymmetry and concentration, Atkinson etc., two or more dimensional nonparametric description of the distribution of the sample: frequency distribution (two-dimensional), histograms, scatter plots.  Parametric description of the two-dimensional population: moments, covariance, correlation coefficient, partial and multiple correlation coefficient, Spearman's rank correlation coefficient, multiple regression functions, the method of least squares, introduction to time series analysis, classical decomposition of time series, Introduction to the theory of indices: dynamics' indices, price indices, equivalence scales.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Written exam	60.0%	50.0%				
	Final test	60.0%	50.0%				
Recommended reading	Basic literature	Kot S.M., Sokołowski A., Jakubowski J. "Statystyka", Difin, Warszawa, 2007.  Bartos J., Dyczka W., Krysicki W. "Rachunek prawdopodobieństwa i statystyka matematyczna w zadaniach część 1 i 2", PWN, Warszawa 2004.  Luszniewicz A., Słaby T., "Statystyka z pakietem komputerowym STATISTICA PL", Warszawa 2008.  Sobczak M. "Statystyka. Podstawy teoretyczne, przykłady, zadania." Wyd. UMCS, Lublin, 1998.  Elektroniczny Podręcznik Statystyki PL, Kraków, StatSoft (2006) https://www.statsoft.pl/textbook/stathome.html					
	Supplementary literature  eResources addresses	Jóźwiak J., Podgórski J., "Statystyka od podstaw", PWE, Warszawa 2009.  Aczel A.D., Sounderpandian J., "Statystyka w Zarządzaniu", PWN, Warszawa 2018.  Pułaska-Turyna B., "Statystyka dla ekonomistów", Difin, Warszawa 2005.  Podstawy statystyki - Moodle ID: 17704					
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17704					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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