

Subject card

Subject name and code	ESSENTIALS OF STATISTICS, PG_00058545								
Field of study	Economic Analytics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
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	Part-time studies (on-line)		Mode of delivery			blended-learning			
Year of study	1		Language of instruction			Polish	Polish		
Semester of study	1		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Manageme	Faculty of Management and Economics							
Name and surname	Subject supervisor Dagna Wleklińska								
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	boratory Project		Seminar	SUM	
of instruction	Number of study hours	16.0	0.0	16.0	0.0		0.0	32	
	E-learning hours included: 24.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	32		10.0		83.0		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 information technologies to improve data analysis and decision-making processes		facilitates the analysis of mass data and supports decision-			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[K6_W02] demonstration comprehensive prepied of methods, tecl formulating and solvi	formulates the problem appropriately, obtains the data, selects methods necessary for solving the given problem, and interprets the results correctly			[SW3] Assessment of knowledge contained in written work and projects				
Subject contents	Stages of statistical investigation. Sampling methods. Statistical variables and measuring scales. Random variables and their theoretical distributions. Non-parametric description of the distribution of the. Classical and positional measures of central tendency. Classical and positional measures of differentiation. Classical and positional measures of asymmetry and kurtosis. Correlation analysis. Introduction to regression analysis. Analysis of the association between categorical variables. Dynamic analysis trend method. Grouping and presentation of statistical material. The most common mistakes in statistical research.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passin	g criteria	Pass 60.0%	ing threshold		Per	centage of th	e final grade	
Recommended reading	Basic literature		Barrow, M. (2012), Statistics for Economics, Accounting and Business Studies, Harlow: Prentice Hall. Newbold, P., Carlson, W.L., Thorne, B. (2019). Statistics for Business and Economics, New York: Pearson Education.						

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	Supplementary literature	Agresti, F. (2012). Statistics. The Art and Science of learning from data, Boston: Pearson Education. Aczel, A. (2008). Complete Business Statistics, New Jersey: Wohl Publishing.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Explain the difference between random and convenient selection. Describe briefly the measurement theory. Make a complex structure analysis of the households income in the Pomeranian Voivodeship in 2019. Check if there is a correlation between gender and consumer behaviour. On the basis of the data from the "Exam" file, calculate and interpret the dynamic measures of emigration in Poland. Was the pace of change higher in 1990-2000 or 2000-2010? Justify your answer. Based on the data from the "Exam" file, estimate the regression function for TFR using unemployment as a regressor. Write down the estimated model in the form of an equation. Interpret the structural parameters of the model and the goodness-of-fit measures. Does the estimated model fit well with the real data? Justify your answer.					
Work placement	Not applicable					

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