

Subject card

Subject name and code	Statistics in public administration - lecture, PG_00133040						
Field of study							
Date of commencement of studies	October 2023	Academic year of realisation of subject			2024/2025		
Education level	undergraduate studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			1.0		
Learning profile	practical	Assessment form					
Conducting unit	Faculty of Law and Administration						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Dorota Banaszekiewicz				
	Teachers		dr Dorota Banaszekiewicz				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	SUM		
	Number of study hours	30	0.0	0.0	30		
Subject objectives	<p>1. Gaining knowledge about data sources concerning broadly understood public administration and the method of their creation, knowledge necessary to conduct statistical research and data analysis.</p> <p>2. Developing skills in selecting appropriate methods for problem analysis and interpretation of obtained results.</p> <p>3. Learning about the possibilities of applying statistical methods in economic and social life, in making administrative, social and business decisions.</p>						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	ADMINL3_WK07		The student has in-depth knowledge of statistical methods and tools for modeling processes in an organization, including decision-making processes;		[SW4] test/exam - oral or written		
	ADMINL3_WG04		The student is able to independently formulate and test hypotheses of simple research problems concerning socio-economic phenomena and carry out procedures for their solution using statistical methods.		[SW3] text preparation/written work		

Subject contents	<p>I. Introductory issues and structure analysis</p> <ul style="list-style-type: none"> - The concept and methods of public statistics, applications of statistics, statistical research (types, stages). - Data presentation: series, tables, graphs. - Analysis of distribution properties: central tendency, dispersion, asymmetry. Structure similarity index. <p>II. Analysis of correlation</p> <ul style="list-style-type: none"> - Correlation of quantitative features - Pearson's linear correlation coefficient. - Correlation of qualitative features - Cramer's V coefficient - Correlation of ordinal features - Spearman's rank correlation coefficient <p>III. Analysis of changes in time</p> <ul style="list-style-type: none"> - The essence and types of time series, graphical presentation. - Measures of the average level of a phenomenon in time series. - Analysis of dynamics: individual dynamics indicators. 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	50.0%
		51.0%	50.0%
Recommended reading	Basic literature	<p>Makać W., Urbanek-Krzysztofiak D., Methods of statistical description, UG Publishing House, Gdańsk [last edition]</p> <p>Aczel A. D., Statistics in management, PWN, Warsaw [last edition]</p> <p>Kot S. M., Jakubowski J., Sokołowski A., Statistics. Textbook for economic studies, Difin, Warsaw [last edition]</p> <p>Illowsky B., Dean S., Introductory statistics, openstax, Houston [last edition], https://openstax.org/details/books/introductory-statistics</p>	
	Supplementary literature	<p>Hans Rosling, Ola Rosling, Anna Rosling-Ronnlund: Factfulness. Why the world is better than we think. Or how to replace stereotypes with real knowledge, Publisher: Media Rodzina; 2018</p> <p>Daniel Kahneman: Thinking traps. On thinking fast and slow; Publisher: Media Rodzina; 2012</p> <p>Mirosław Szreder: "Lost in numbers", Tygodnik Powszechny; 24.12.2018</p>	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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