

Subject card

Subject name and code	Statistics in public administration - lecture, PG_00133400						
Field of study							
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	Bachelor's 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 Polish		
Semester of study	3	ECTS credits			1.0		
Learning profile	practical	Assessment form			credit		
Conducting unit	Faculty of Law and Administration -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Olga Komorowska				
	Teachers		dr Olga Komorowska				
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	Students will learn and understand the problems of statistical research. They will learn the components of statistical data analysis methods related to structures, correlations, regressions, and time series, which serve to connect economic and social phenomena and data in the context of public administration applications.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	ADMINL3_WG04	The student uses (is able to find and retrieve data from) statistical databases such as BDL, Central Statistical Office publications, and Eurostat data. The student classifies statistical measures and methods. The student interprets obtained results. The student understands situations in which certain statistical measures and methods cannot be applied (e.g., arithmetic mean, mode, Pearson's linear correlation coefficient).	[SW4] test/exam - oral or written [SW5] implementation of a problem task
	ADMINL3_WK07	The student knows the concept of economic statistics and understands its role in the modern state. The student is able to translate values expressed in Polish złoty into real terms. The student is familiar with the concepts and understands changes in unemployment, inflation, GDP, and poverty. The student understands the concept of the system of national accounts.	[SW4] test/exam - oral or written
Subject contents	Basic concepts (statistics, population, sample, statistical characteristics). Stages of statistical analysis. Data presentation. Analysis of population structure (measures of location, diversity, asymmetry). Indicators of structure and intensity. Concentration coefficient. Interdependence analysis. The nature and types of time series. Measures of dynamics. Trend function (estimation and interpretation of parameters, assessment of function fit to empirical data). Nominal and real values. Unemployment, poverty, inflation, national accounts.		
Prerequisites and co-requisites	Basics of mathematics.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	51.0%	80.0%
	Problem task	51.0%	20.0%
Recommended reading	Basic literature	Brak	
	Supplementary literature	Brak	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Why should pie charts be avoided? What is data grouping? What type of characteristic is the characteristic "age"? How is this characteristic presented in Central Statistical Office publications? How does Central Statistical Office collect data on wages in Poland and what information can we obtain on this topic at www.stat.gov.pl ? Why should the arithmetic mean not be used for strongly skewed series? Is it true that in income distributions, most people earn less than their average income? Why is it important to create a correlation diagram when analyzing the correlation of two quantitative characteristics? How is GDP calculated? Please provide real-world tax revenues to the state budget and perform a comparative analysis for the years 2015-2025. Determine and interpret the measures of birth rate dynamics in Poland over the years 2010-2024.		
Work placement	Not applicable		

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