

Subject card

Subject name and code	Statistics in administration - auditorium classes, PG_00132146						
Field of study	Law in administration and economy						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study		
Mode of study	part-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		2.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Faculty of Law and Administration -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Dorota Banaszkiewicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	10.0	0.0	0.0	0.0	10
	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	10		0.0		40.0	50
Subject objectives	1. Gaining knowledge about the sources of data on economic, social, and population phenomena and how they are generated, as well as the knowledge necessary to conduct statistical research and data analysis. 2. Developing skills in selecting appropriate methods for analyzing economic and social phenomena and interpreting the obtained results. 3. Learning about the potential applications of statistical methods in economic and social life, in administrative, social, and business decision-making.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[PAGMU2_UU05] At an advanced level, the student is able to independently and critically acquire knowledge and develop his professional skills. Additionally, he is aware of the level of his knowledge and skills and understands the need for lifelong learning and sharing the knowledge he acquires with others.	K_UU03 The student is able to independently formulate and test hypotheses of simple research problems concerning socio-economic phenomena and carry out procedures to solve them using statistical methods	[SU2] presentation/project/paper/report [SU3] text preparation/written work [SU4] test/exam - oral or written
	[PAGMU2_UK02] The student is able to communicate professionally on issues related to administration and the economy, including formulating clear messages for both specialists and non-specialists in administration. He can also prepare an independent, in-depth written report and an oral presentation on topics related to administration and the economy.	KNOWLEDGE K_WG02 knows and understands, at an in-depth level, the terminology, methods, and theories explaining the relationships between law in administration and economy, and related sciences. Also possesses in-depth knowledge of methods and tools for modeling organizational processes, including decision-making processes. K_WG05 knows the main development trends in scientific fields other than law belonging to the social sciences. SKILLS K_UU03 can independently formulate and test hypotheses for simple research problems and carry out procedures to solve them. COMPETENCIES K_KR04 is ready to responsibly fulfill professional roles, develop professional achievements, continuously improve one's education, and achieve further career advancement.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[PAGMU2_KO02] The student is capable and willing to use the knowledge and skills acquired in social activities; he is also ready to initiate the pursuit of the public interest, particularly through substantive support for a specific organization, performing his profession diligently and ethically; he is prepared to carry out tasks in the organization in an entrepreneurial manner.	K_W02 The student has in-depth knowledge of statistical methods and tools for modeling processes in an organization, including decision-making processes.	[SK4] test/exam - oral or written
	[PAGMU2_WG01] At an advanced level, the student identifies and understands the facts, phenomena, and their interactions related to the functioning of public authorities, administration, civil servants, the economy, and economic entities. He also knows the terminology, methods, and theories derived from legal sciences and related disciplines, relevant to issues concerning administration and the economy.	K_KR04 The student is ready to responsibly fulfill professional roles, develop professional achievements, continuously educate themselves in order to select and apply statistical methods in the assessment of socio-economic phenomena, and advance their professional career	[SW4] test/exam - oral or written [SW5] implementation of a problem task

Subject contents	I. Introductory Issues and Structure Analysis - Concepts and methods of statistics, applications of statistics, basic concepts, statistical research (types, stages). - Data presentation: series, tables, graphs. - Analysis of distribution properties: central tendency, dispersion, asymmetry. Structural similarity index. II. Interdependence analysis - Correlation of quantitative characteristics - Pearson's linear correlation coefficient. - Correlation of qualitative characteristics - Cramer's V coefficient. - Correlation of ordinal characteristics - Spearman's rank correlation coefficient. III. Analysis of changes over time - The nature and types of time series, graphical presentation. - Measures of the average level of a phenomenon in time series. - Dynamics analysis: individual dynamics indices.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	term paper	51.0%	50.0%
	test	51.0%	50.0%
Recommended reading	Basic literature	Makać W., Urbanek-Krzysztofak D., Methods of Statistical Description, UG Publishing House, Gdańsk [last edition] Aczel A. D., Statistics in Management, PWN, Warsaw [last edition] Kot S. M., Jakubowski J., Sokołowski A., Statistics. A Handbook for Economic Studies, Difin, Warsaw [last edition] Illowsky B., Dean S., Introductory Statistics, openstax, Houston [last edition], https://openstax.org/details/books/introductory-statistics	
	Supplementary literature	Hans Rosling, Ola Rosling, Anna Rosling-Ronnlund: Factfulness. Why the world is better than we think. Or how to replace stereotypes real knowledge, Publisher: Media Rodzin; 2018 Daniel Kahneman: Thinking traps. About thinking fast and slow; Publisher: Media Rodzina; 2012 Mirosław Szreder:"Lost in numbers", Tygodnik Powszechny;24/12/2019	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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