

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 2023	Academic year of realisation of subject	2024/2025				
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 Banaszekiewicz				
	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	<p>1. Obtaining knowledge about the sources of data regarding economic, social and population phenomena and how they are created, knowledge necessary to conduct statistical research and data analysis.2. Developing the ability to select appropriate methods for analyzing economic and social phenomena and interpreting the obtained results.3. Learning about the possibilities of using statistical methods in economic and social life, in making administrative, social and business decisions.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	PAGMU2_UW03	<p>KNOWLEDGE</p> <p>K_WG02</p> <p>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. He also has in-depth knowledge of methods and tools for modeling processes in organizations, including decision-making processes.</p> <p>K_WG05</p> <p>knows the main development trends in scientific fields other than law belonging to the field of social sciences</p> <p>SKILLS</p> <p>K_UU03</p> <p>can independently formulate and test hypotheses of simple research problems and carry out procedures for solving them</p> <p>COMPETENCES</p> <p>K_KR04</p> <p>is ready to fulfill professional roles responsibly, develop professional achievements, constantly improve his/her education, and advance to the next levels of his/her professional career.</p>	<p>[SU1] oral statement/conversation/discussion</p> <p>[SU2] presentation/project/paper/report</p> <p>[SU4] test/exam - oral or written</p> <p>[SU5] implementation of a problem task</p>
	PAGMU2_WG02	<p>K_W02</p> <p>The student has in-depth knowledge of statistical methods and tools for modeling processes in organizations, including decision-making processes</p>	<p>[SW2] presentation/project/paper/report</p>
	PAGMU2_WG05	<p>K_KR04</p> <p>The student is ready to fulfill professional roles responsibly, develop professional achievements, constantly learn in order to select and apply statistical methods in the assessment of social and economic phenomena, and advance to the next levels of a professional career.</p>	<p>[SW5] implementation of a problem task</p>
	PAGMU2_KR04	<p>K_UU03</p> <p>The student is able to independently formulate and test hypotheses of simple research problems regarding socio-economic phenomena and carry out procedures for solving them using statistical methods.</p>	<p>[SK4] test/exam - oral or written</p>

Subject contents	<p>I. Introductory issues and structure analysis</p> <ul style="list-style-type: none"> - Concept 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. Structure similarity index. <p>II. Analysis of interdependencies</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"> - 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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Subject passing criteria</th> <th style="width: 33%;">Passing threshold</th> <th style="width: 33%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td></td> <td>51.0%</td> <td>50.0%</td> </tr> <tr> <td></td> <td>51.0%</td> <td>50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade		51.0%	50.0%		51.0%	50.0%
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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											
Example issues/ example questions/ tasks being completed												
Work placement	Not applicable											

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