

**Subject card**

<b>Subject name and code</b>	Methods and Tools of Economic System Description, PG_00101708						
<b>Field of study</b>	International Economic Relations						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2025/2026		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	part-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	3	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Katedra Logistyki -> Faculty of Economics						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		mgr Patryk Wierzbowski				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	10.0	0.0	0.0	0.0	10
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	10		0.0		0.0	10
<b>Subject objectives</b>	To familiarize students with methods and tools for describing economic systems.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MSGL3_W10] knows selected methods and tools, including IT tools and data acquisition techniques, which make it possible to describe and analyse economic entities operating on the international market; knows the processes and phenomena occurring in them and between them, and processes supporting decision-making	The student understands the meaning of the basic concepts of descriptive statistics. The student understands the essence of describing the course of economic processes. The student understands the process and system approach to the functioning of any organization.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
	[MSGL3_U13] can prepare presentations and oral speeches on selected specific problems concerning international economic relations (in connection with the chosen speciality within International Economic Relations), using basic theoretical approaches, specialist terminology, principles of collecting data from various sources, their description and interpretation, and drawing conclusions based on scientific literature	The student is able to organize and present statistical data and apply appropriate measures of their statistical description. The student is able to use computer tools for mapping and describing the course of economic processes or systems.	[SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[MSGL3_U08] uses basic methods and computer programmes as well as marketing techniques and tools to acquire and analyse data necessary in his/her professional work to diagnose economic processes and make adequate economic decisions	The student is able to organize and present statistical data and apply appropriate measures of their statistical description. The student is able to use computer tools for mapping and describing the course of economic processes or systems.	[SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[MSGL3_U10] can take an active part in a debate, presenting his/her own viewpoint and supporting it with argumentation based on selected theories, opinions of various authors and/or statistical data	The student is able to organize and present statistical data and apply appropriate measures of their statistical description. The student is able to use computer tools for mapping and describing the course of economic processes or systems.	[SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[MSGL3_U12] can prepare written assignments concerning detailed problems of international economic relations (in connection with the chosen speciality within International Economic Relations), using specialist terminology, theoretical and methodological approaches, principles of collecting data from various sources, their description and interpretation, principles of formulating research theses, drawing conclusions on the basis of scientific literature and factual data, and making international comparisons	The student is able to organize and present statistical data and apply appropriate measures of their statistical description. The student is able to use computer tools for mapping and describing the course of economic processes or systems.	[SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[MSGL3_U02] can assess economic and social phenomena occurring in an open economy, interpret necessary statistical data and economic indicators, as well as forecast economic phenomena and processes, using standard methods and tools applied in economic sciences	The student is able to organize and present statistical data and apply appropriate measures of their statistical description. The student is able to use computer tools for mapping and describing the course of economic processes or systems.	[SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[MSGL3_K05] correctly identifies, diagnoses and solves dilemmas and various options of solutions related to the profession	The student undertakes assigned tasks and solves them creatively.	[SK2] presentation/project/paper/report [SK8] observation of student's independent or team work

Subject contents	<p>1. Tabular and Graphical Data Presentation: Statistical inference vs. descriptive statistics. Presentation of tools used for statistical description, including IT tools (Microsoft Excel). Unordered frequency distribution, ordered frequency distribution, point frequency distribution, interval frequency distribution, diagram, histogram, frequency polygon, frequency curve, pie chart of frequencies and percentage shares, bar chart.</p> <p>2. Basic Measures of Economic System Description. Measures of central tendency, measures of variability, skewness, and concentration.</p> <p>3. Examination of Interrelationships within Economic Systems. Correlation analysis, regression analysis.</p> <p>4. Study of the dynamics of economic phenomena. The nature of time series, absolute and relative growth, indices, time series decomposition.</p>		
Prerequisites and co-requisites	Computer proficiency, basic knowledge of spreadsheet software, fundamental understanding of economics and management, and the ability to apply mathematics in economics and management.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	team project	51.0%	50.0%
	final exam	51.0%	50.0%
Recommended reading	Basic literature	<p>1. W. Makać, D. Urbanek-Krzysztofiak: Metody opisu statystycznego. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk, 2020</p> <p>2. C. Mańkowski: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020</p> <p>3. L. Reszka: Decyzje menedżerskie w logistyce. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2019</p>	
	Supplementary literature	<p>1. A. Wojna: Wykłady z podstaw statystyki. Cz. 1, Opis statystyczny. Wydawnictwo Uczelniane Politechniki Koszalińskiej, Koszalin 2011</p> <p>2. B. Pułaska - Turyna: Statystyka dla ekonomistów. Wydawnictwo Difin, Warszawa 2011</p> <p>3. J. Józwiak, J. Podgórski: Statystyka od podstaw. Polskie Wydawnictwo Ekonomiczne, Warszawa 2012</p> <p>4. A. Maksymowicz-Ajchel: Wstęp do statystyki. Metody opisu statystycznego. Wydawnictwo Uniwersytetu Warszawskiego, Warszawa 2020</p>	
	eResources addresses	<p>Podstawowe</p> <p><a href="https://wyd.ug.edu.pl/search/content/ma%C5%84kowski">https://wyd.ug.edu.pl/search/content/ma%C5%84kowski</a> - C. Mańkowski: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020</p> <p><a href="http://www.ariscommunity.com">http://www.ariscommunity.com</a> - Educational portal</p> <p>Adresy na platformie eNauczanie:</p>	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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