

Subject card

Subject name and code	Methods and Tools of Economic System Description, PG_00101707						
Field of study	International Economic Relations						
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	part-time studies	Mode of delivery	at the university				
Year of study	2	Language of instruction	Polish				
Semester of study	3	ECTS credits	2.0				
Learning profile	academic	Assessment form	exam				
Conducting unit	Department of Logistics -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Cezary Mańkowski					
	Teachers	dr hab. Cezary Mańkowski dr Beata Chmiel					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	0.0	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	0.0	10		
Subject objectives	To introduce students to methods and tools for describing economic systems						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MSGL3_K05] correctly identifies, diagnoses and solves dilemmas and various options of solutions related to the profession	The student correctly identifies, diagnoses and resolves dilemmas and different options for solutions related to the economics profession	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report [SK4] test/exam - oral or written [SK8] 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 assess economic and social phenomena taking place in an open economy, interpret statistical data and economic indicators necessary in this respect, as well as forecast economic phenomena and processes using standard quantitative and qualitative methods and tools.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [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 prepare written assignments in the form of descriptions of economic systems using professional terminology.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[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 is familiar with the basic methods and tools for describing international economic systems, including IT tools and data acquisition techniques, which make it possible to describe and analyse economic entities operating on the international market, as well as processes and phenomena taking place within and between them, and which support decision-making processes.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[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 take an active part in a debate on ways of describing economic systems and present his/her own standpoint, supporting it with argumentation based on selected theories, views of various authors and/or statistical data.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [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 use basic methods and tools for the description of international economic systems, including IT tools and data acquisition techniques as well as marketing tools in order to diagnose economic processes and make appropriate economic decisions.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[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 has the ability to prepare presentations and oral presentations in the form of a verbal description of economic systems using specialised terminology	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU8] observation of student's independent or team work

Subject contents	<p>1. The economic system as an object of description Ontology (realism, evidentialism, processualism, relationalism, systemism), elements of the economic system (resources, events, processes, relations), the economic system as a holon, characteristics (properties, variables) of the economic system, measures of characteristics of the economic system, methods and tools of ontological description of economic systems</p> <p>2..Tabular and graphical presentation of data .Statistical inference vs. descriptive statistics. Presentation of tools used for statistical description, including IT tools (Microsoft Excel, Statistica). Unordered enumeration series, ordered enumeration series, point and interval series, diagram, histogram, frequency polygon, abundance curve, pie chart of abundance and percentages, bar chart</p> <p>3. Basic measures for describing an economic system Measures of central tendency, measures of: diversity, skewness, concentration</p> <p>4. Analysis of interdependence of economic system characteristics Correlation analysis, regression analysis</p> <p>5. Analysis of the dynamics of economic phenomena The essence of time series, absolute and relative growth, indices, time series decomposition</p> <p>Topic no. 1 will be realised in class using the ARIS Express tool.</p> <p>Topics 2 to 5 will be covered in class using Microsoft Excel and Statistica (beginner level).</p>								
Prerequisites and co-requisites	Application of mathematics in economics and management, Information technology, Macroeconomics I, Microeconomics I, Management. Computer literacy, basic spreadsheet knowledge, basic knowledge of economics and management ability to apply mathematics in economics and management.								
Assessment methods and criteria	<table border="1" data-bbox="448 808 1477 884"> <thead> <tr> <th data-bbox="448 808 794 846">Subject passing criteria</th> <th data-bbox="794 808 1141 846">Passing threshold</th> <th data-bbox="1141 808 1477 846">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 846 794 884">written test</td> <td data-bbox="794 846 1141 884">51.0%</td> <td data-bbox="1141 846 1477 884">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	written test	51.0%	100.0%
Subject passing criteria	Passing threshold	Percentage of the final grade							
written test	51.0%	100.0%							
Recommended reading	Basic literature	<p>Literatura podstawowa</p> <ol style="list-style-type: none"> 1. W. Makać, D. Urbanek-Krzysztofak: <i>Metody opisu statystycznego</i>. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk, 2020 2. C. Mańkowski: <i>Modelowanie procesów logistycznych</i>. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (do pobrania tutaj/zakładka TREŚĆ) 3. L. Reszka: <i>Decyzje menedżerskie w logistyce</i>. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2019 (do pobrania tutaj/zakładka TREŚĆ) 4. Portal edukacyjny www.ariscommunity.com 							

	Supplementary literature	<p>Literatura uzupełniająca</p> <ol style="list-style-type: none"> 1. C. Mańkowski: Ontological Foundations for Business Logistic Process Modeling. "Railway Transport and Logistics" 2007, no. 2, p. 30-38 2. A. Wojna: <i>Wykłady z podstaw statystyki. Cz. 1, Opis statystyczny.</i> Wydawnictwo Uczelniane Politechniki Koszalińskiej, Koszalin 2011 3. B. Pułaska - Turyna: <i>Statystyka dla ekonomistów.</i> Wydawnictwo Difin, Warszawa 2011 4. J. Józwiak, J. Podgórski: <i>Statystyka od podstaw.</i> Polskie Wydawnictwo Ekonomiczne, Warszawa 2012 5. A. Maksymowicz-Ajchel: <i>Wstęp do statystyki. Metody opisu statystycznego.</i> Wydawnictwo Uniwersytetu Warszawskiego, Warszawa 2020 6. M. Kowalski: <i>Podstawy statystyki opisowej dla ekonomistów.</i> Wydawnictwo Wyższej Szkoły Bankowej, Poznań - Chorzów 2006
Example issues/ example questions/ tasks being completed	-	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.