

Subject card

Subject name and code	Instruments for Economic Research, PG_00102477						
Field of study	International Economic Relations						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	postgraduate 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	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			1.0		
Learning profile	academic	Assessment form					
Conducting unit	Katedra Makroekonomii -> Faculty of Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Lilia Neumann				
	Teachers		mgr Lilia Neumann				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	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	15		0.0		0.0	15
Subject objectives	The aim of the course is to provide students with the necessary knowledge and skills in the use of available tools in conducting economic research necessary in the development of diploma theses, as well as to familiarize them with the possibilities of using Statistica and Excel programs in advanced data analyses.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MSGMU2_U10] can accurately select and use sources of information on international economic relations, evaluate, critically analyse and creatively interpret them, and can present them in an innovative way, using advanced information and communication techniques	is able to properly select and use sources of information on international economic relations, evaluate them, critically analyze and creatively interpret them, is able to present them in an innovative way, using advanced information and communication techniques MSG2_U10	[SU4] test/exam - oral or written
	[MSGMU2_U13] has a thorough ability to prepare specialist written work on economic and social issues, using specialist theoretical and methodological approaches, collecting data from various sources, their description and interpretation, the principles of hypothesis formulation and drawing conclusions on the basis of scientific literature and factual data, and can perform advanced international comparisons	has in-depth skills in preparing specialized written works in Polish and a foreign language on economic and social issues, using specialized theoretical and methodological approaches, collecting various sources of data, their description and interpretation, principles of formulating hypotheses and drawing conclusions based on scientific literature and factual data, is able to make advanced international comparisons MSG2_U13	[SU4] test/exam - oral or written
	[MSGMU2_U14] has a thorough ability to prepare specialist oral presentations on economic and social issues, using specialist theoretical approaches, the principles of collecting data from various sources, their description and interpretation, and drawing conclusions on the basis of scientific literature; can prepare and lead a debate	is able to independently propose solutions to a complex economic or social problem, select methods of analysis and carry out decisive procedures in this area, has an in-depth ability to prepare specialized written works in Polish and a foreign language on economic and social issues, using specialized theoretical and methodological approaches, collecting various sources of data, their description and interpretation, principles of formulating hypotheses and inferences based on scientific literature and factual data, and is able to make developed international comparisons	[SU4] test/exam - oral or written
	[MSGMU2_U01] can creatively interpret and explain complex and atypical economic phenomena and the relations occurring between them, using the acquired knowledge in economics, finance and international economic relations	has in-depth skills in preparing specialized oral presentations in Polish and a foreign language on economic and social issues, using specialized theoretical approaches, principles of collecting various data sources, their description and interpretation, and drawing conclusions based on scientific literature, is able to prepare and conduct a debate E2_U10 can creatively interpret and explain complex and unusual economic phenomena and the relationships between them, using their knowledge of economics, finance and international economic relations MSG2_U01	[SU4] test/exam - oral or written
	[MSGMU2_U02] can observe, evaluate and critically analyse the causes and course of processes and phenomena taking place in the open economy; can formulate his/her own opinions on the subject, interpret statistical data and economic indicators necessary in this respect, and also forecast economic processes and phenomena using advanced methods and tools applied in economic sciences	is able to observe, evaluate and critically analyze the causes and course of processes and phenomena occurring in an open economy, is able to formulate his or her own opinions on this subject, interpret the necessary statistical data and economic indicators in this regard, as well as forecast economic processes and phenomena using advanced methods and tools used in economic sciences MSG2_U02	[SU4] test/exam - oral or written

	Course outcome	Subject outcome	Method of verification
	[MSGMU2_U11] independently formulates and tests hypotheses related to simple research problems, appropriately selects and applies methods and tools, including statistical tools and data acquisition techniques in order to verify hypotheses and diagnose economic processes, and on this basis to take appropriate economic decisions	independently formulates and tests hypotheses related to simple research problems, appropriately selects and applies methods and tools, including statistical tools and data acquisition techniques, in order to verify hypotheses and diagnose economic processes and, on this basis, make appropriate economic decisions MSG2_U11	[SU4] test/exam - oral or written
	[MSGMU2_K02] is ready to critically assess the level of acquired knowledge, skills and professional competence in the area of international economic relations	is ready to critically assess the level of knowledge, skills and professional competences in the area of international economic relations MSG2_K02	[SK4] test/exam - oral or written
	[MSGMU2_U09] can innovatively solve problems in the field of international economic relations and the functioning of economic entities on the international market, adapting existing or developing new methods and tools	can innovatively solve tasks in the field of international economic relations and the functioning of economic entities on the international market, adapting existing or developing new methods and tools MSG2_U09	[SU4] test/exam - oral or written
	[MSGMU2_U06] can identify types of risks related to international operations of enterprises and correctly determine their consequences and methods of mitigation, with a skilful application of theory, using appropriate research method	is able to identify types of risks related to the international activities of enterprises and correctly determine their consequences and methods of mitigation, with the skilful use of theory and appropriate research methods MSG2_U06	[SU4] test/exam - oral or written
	[MSGMU2_K06] is ready to independently identify, diagnose and responsibly resolve dilemmas and alternative solutions related to his/her profession and the development of professional achievements	is ready to independently identify, diagnose and responsibly resolve dilemmas and various variants of solutions related to performing a profession and developing professional achievements MSG2_K06	[SK4] test/exam - oral or written
	[MSGMU2_K01] is ready to recognise the importance of knowledge of economics in the process of identifying and solving problems in the area of international economic relations and to consult experts in case of difficulties in solving them independently	is ready to recognize the importance of knowledge in the field of economics in the process of identifying and solving problems in the area of international economic relations and seeking the opinion of experts in the event of difficulties in solving them independently MSG2_K01	[SK4] test/exam - oral or written
Subject contents	<p>Research plan. Purpose and research hypotheses. Designing an economic study. Data and their sources. Qualitative and quantitative research. Qualitative research in practice. Observation. Individual interview. Group interviews (focus groups). Experiment. (lecture 2 hours) Quantitative research in business practice. The concept and properties of the normal distribution. Other variable distributions. Statistical hypotheses and their verification. Statistical significance. Statistical tests. Generalizing the results. (lecture 2 h + computer laboratory 2 h) Tools supporting data analysis - STATISTICA (data analysis software system). StatSoft, Inc.: presentation of the Statistica program as a tool supporting the analysis of macroeconomic and microeconomic data. Performing tasks using statistical methods, performing analyzes using Excel. (computer laboratory 2 h) Analysis of the interdependence of economic phenomena. Using knowledge about correlation and regression in the economy and enterprise. Scatterplot. Pearson and Spearman correlation coefficients. Explained and explanatory variable. Regression function. (lecture 2 h + computer laboratory 2 h) Assessment of the effectiveness of changes in economic parameters. Comparisons relative to groups. Tests for independent and dependent samples. (lecture 2 h + computer laboratory 2 h) Searching for similar economic arrangements and market segmentation. Cluster analysis - multi-aspect grouping of objects. Spatial diversity of economic variables. Optimal separation methods. K-means method. (lecture 2 h + computer laboratory 2 h) Creating valuable research questionnaires. Reliability and item analysis. Cronbach's alpha. Elements of factor analysis. Bartlett and KMO tests. The shape of the questions in the questionnaire. (lecture 4 h + computer laboratory 4 h)</p>		
Prerequisites and co-requisites	Basic knowledge of descriptive statistics and mathematical analysis.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%
Recommended reading	Basic literature	<p>Balicki A., Makać W., <i>Metody wnioskowania statystycznego</i>, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2007. Sobczyk M., <i>Statystyka matematyczna</i>, Wydawnictwo C.H. Beck, Warszawa 2010. Rószkiewicz M., <i>Metody ilościowe w badaniach marketingowych</i>, Wydawnictwo Naukowe PWN, Warszawa 2002 lub 2014.</p>	

	Supplementary literature	Stanisz A., <i>Przystępny kurs statystyki z zastosowaniem STATISTICA PL na przykładach z medycyny</i> , StatSoft Polska, Kraków 2006. Internetowy Podręcznik Statystyki, http://www.statsoft.pl/textbook Bizon W., <i>Dobrobyt społeczno-ekonomiczny oraz gospodarka oparta na wiedzy w kontekście historycznych podziałów na Polskę A i Polskę B</i> , "E-mentor" nr 4/2011. Bizon W., <i>Pomiar efektywności nauczania opartego na symulacjach biznesowych i studiach przypadków</i> , [w:] A. Poszewiecki, W. Bizon, P. Kulawczuk [red.], <i>Symulacje menedżerskie i studia przypadków. Szkolenia biznesowe w oparciu o symulacje menedżerskie i studia przypadków najlepsze praktyki</i> , Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2012.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	-	
Work placement	Not applicable	

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