

Subject card

Subject name and code	QUANTITATIVE METHODS IN THE INTERNATIONAL ECONOMY, PG_00058575							
Field of study	Economic Analytics							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research 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	general academic profile		Assessment form			assessment		
Conducting unit	Katedra Statystyki i E	Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics						
Name and surname	Subject supervisor dr Aleksandra Kordalska							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	/ Project		Seminar	SUM
of instruction	Number of study hours	0.0	16.0	0.0	0.0		0.0	16
	E-learning hours inclu			1		i .		1
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	16		5.0		29.0		50
Subject objectives	Describes the possibilities of quantitative methods application in terms of their selection and collecting reliable data							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_U06] acquires new knowledge by planning lifelong learning strategies		acquires new knowledge necessary to conduct analyses in international economics			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_K03] demonstrates the ability to think critically and analytically and integrates knowledge from many disciplines, acting in an entrepreneurial manner		shows a critical approach to reliable data sources selection necessary to conduct analyses in international economics			[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	Introduction to the course, quantitative versus qualitative approach to analyses in the field of international economics, examples of applications and the problem of choosing a research method Introduction to the software - the use of selected modules of the STATA package (and / or R packages) with examples of applications in international economics Macroeconomic, sectoral, and microeconomic sources of data for international analyses and examples of their use Merging economic data that come from different sources Value added in exports - methods of gross exports decomposition Functional specialisation in international trade - a way of identification Creating a database with two-level (country-year) and multi-level (e.g. country-section-year) identification Calculation of macroeconomic and sectoral indicators Methods of an initial analysis of the created databases (descriptive statistics, graphical methods of presenting multidimensional data, outliers) Preliminary examination of the relationship between data, selection of variables for analysis: exo- and endogenous variables - illustration on the example of determinants of economic growth One- and multi-dimensional analyses on the example of the absolute and conditional convergence model Bilateral data and gravity model for international trade Final test							
Prerequisites and co-requisites	macroeconomics, microeconomics, statistics, econometrics							
Assessment methods	Subject passin	g criteria	Passing threshold			Percentage of the final grade		
and criteria	test	-			100.0%			

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Recommended reading	Basic literature	Krugman, P., Obstfeld, M., Melitz, M.J. (2023). International Economics. Theory and Practice. Pearson Education Limited. Wooldridge, J. (2019). Introductory Econometrics: A Modern Approach, SOUTH WESTERN EDUC PUB Heiss, F. (2020). Using R for Introductory Econometrics, companion website http://www.urfie.net				
	Supplementary literature	Feenstra, R.C., Taylor, A.M. (2020). International Economics, Worth Publishers. Maddala, G.S, Lahiri, K. (2011). Introduction to Econometrics, Wiley.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Given the data on GDP per capita and trade openness (100 countries, 1980-2010) calculate average annual rate of growth of each of the analysed countries in the period 1980-2010 and verify the hypothesis of conditional beta convergence.					
	On the basis of gross exports decomposition (Wang, Wei, and Zhu, 2013) answer the question of the size or domestic and foreign value-added embodied in gross exports for 28 EU countries in the period 2005-2018.					
Work placement	Not applicable					

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