

Subject card

Subject name and code	Quantitative Research, PG_00173209						
Field of study	International Business						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's 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		English		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form				
Conducting unit	Department of Economics and Management of Transportation Companies -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Michał Suchanek				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		10.0		25.0	50
Subject objectives	The purpose of the course is to familiarize students with modern, commonly used statistical methods, so that they are able to understand and correctly interpret the current literature, as well as to be able to use the methods necessary to perform research for the thesis.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[IBMU2_U04] can formulate and test hypotheses related to simple research problems in the field of international business using appropriately selected methods and tools	The student is able to formulate and test hypotheses related to simple research problems in the field of international business using appropriately selected statistical methods and quantitative tools. The student can formulate questions and concerns related to the completion of these tasks and to deepen their understanding of the content during consultations with the instructor.	[SU4] test/exam - oral or written
	[IBMU2_W03] knows terminology in the field of international business, international economics and financial relations and complementary disciplines	The student knows the terminology of statistical and economic techniques used to analyze and describe phenomena from international business.	[SW4] test/exam - oral or written
	[IBMU2_W02] knows and understands methods and tools for describing economic phenomena, including data acquisition techniques, which make it possible to describe and analyse business entities functioning on the international market as well as processes and phenomena occurring in them and between them	The student knows and understands statistical and economic techniques in the field of macro- and microeconomic description of economic phenomena, including data acquisition techniques that allow describing and analyzing economic entities operating in the international market	[SW4] test/exam - oral or written
	[IBMU2_U02] can interpret statistical data and economic indicators, and select and use quantitative and qualitative methods and tools developed by economic sciences, including advanced information and communication techniques	The student is able to interpret statistical data and economic indicators, as well as select and use quantitative methods and tools developed by economic science, including advanced information techniques used in international business.	[SU4] test/exam - oral or written
Subject contents	[IBMU2_K02] is ready to critically assess the level of acquired knowledge, skills and professional competence in the area of international business	The student is ready to critically assess the level of acquired knowledge, skills and professional competence in statistical and economic techniques used to analyze and describe the phenomena of international business.	[SK4] test/exam - oral or written
	1) Introduction to distributions and hypothesis verification 2) Comparing averages 3) Analysis of variance 4) Factor analysis 5) Regression (linear, logistic, survival) As part of supporting the learning process, consultations will be used to clarify more complex issues related to the lecture topics.		
Prerequisites and co-requisites	A basic knowledge of probability theory and mathematical analysis and algebra is advisable to cope with the material covered in these classes		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written exam	51.0%	100.0%

Recommended reading	Basic literature	R.B. Kline, Principles and practice of structural equation modeling, The Guilford Press 2016 J.L. Devore, K.N. Berk, Modern Mathematical Statistics with Applications, Springer 2018 C. Hirotzu, Advanced Analysis of Variance, Wiley & Sons 2017
	Supplementary literature	Suchanek, M., & Szmelter-Jarosz, A. (2019). Environmental aspects of generation Ys sustainable mobility. Sustainability, 11(11), 3204. Adamska-Mieruszevska, J., Mrzyglód, U., Suchanek, M., & Fornalska-Skurczyńska, A. (2021). Keep it simple. The impact of language on crowdfunding success. Economics & Sociology, 14(1), 130-144
	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.