University of Gdańsk

Subject card

Subject name and code	Quantitative Research, PG_00132327		
Field of study	International Business		
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	English
Semester of study	2	ECTS credits	2.0
Learning profile	academic	Assessment form	
Conducting unit	Katedra Rynku Transportowego -> Faculty of Economics -> Rektor		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Aleksander Jagiełło	
	Teachers	dr Aleksander Jagiełło	

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	15.0	20.0	50

Subject objectives	The goal of the subject is to acquaint the students with the contemporary, widely-used statistical methods so that they are able to understand and correctly interpret current literature and also to make sure that they are able to use the methods necessary to perform research for their thesis.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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	Student is able to interpret statistical data and economic indicators as well as select and use quantitative methods and tools developed by economic sciences, including advanced information techniques used in international business.	[SU1] oral statement/conversation/ discussion [SU5] implementation of a problem task
[IBMU2_K02] is ready to critically assess the level of acquired knowledge, skills and professional competence in the area of international business	Student. is ready to critically assess the level of acquired knowledge, skills and professional competencies in the field of statistical and economic techniques used to analyse and describe the phenomena of international business.	[SK1] oral statement/conversation/ discussion [SK5] implementation of a problem task
[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	Student knows and understands statistical and economic techniques in the field of the macro- and microeconomic description of economic phenomena, including data acquisition techniques that enable the description and analysis of economic entities operating on the international market.	[SW1] oral statement/ conversation/discussion [SW5] implementation of a problem task
[IBMU2_U04] can formulate and test hypotheses related to simple research problems in the field of international business using appropriately selected methods and tools	Student is able to formulate and test hypotheses regarding simple research problems in the field of international business using appropriately selected statistical methods and quantitative tools.	[SU1] oral statement/conversation/ discussion [SU5] implementation of a problem task
[IBMU2_W03] knows terminology in the field of international business, international economics and financial relations and complementary disciplines	Student knows the terminology in the field of statistical and economic techniques used to analyse and describe phenomena in international business.	[SW1] oral statement/ conversation/discussion [SW5] implementation of a problem task

Subject contents

1) Introduction to distributions and hypothesis verification

2) Comparisons of means

3) Analysis of variance

4) Factor analysis

5) Regression (linear, logistic, survival)

Prerequisites and co-requisites

A basic knowledge of probability theory and mathematical analysis and algebra is advised to handle the material covered in this class.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
out tasks on a class-to-class basis	51.0%	100.0%

Recommended reading

Basic literature	1. R.B. Kline, Principles and practice of structural equation modeling, The Guilford Press 2016 2. J.L. Devore, K.N. Berk, Modern Mathematical Statistics with Applications, Springer 2018 3. C. Hirotsu, Advanced Analysis of Variance, Wiley & Sons 2017
Supplementary literature	1. Suchanek, M., & Szmelter-Jarosz, A. (2019). Environmental aspects of generation Ys sustainable mobility. Sustainability, 11(11), 3204. 2. Adamska-Mieruszewska, J., Mrzygłód, 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

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