



Subject card

Subject name and code	MICROECONOMETRICS, PG_00068698						
Field of study	Economic Analytics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Part-time studies (on-line)		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Statistics And Econometrics -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	16.0	0.0	0.0	24
	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	24		4.0		47.0	75
Subject objectives	Explains the importance and interrelations between factors describing economic and social phenomena, based on microdata, selecting appropriate econometric tools allowing for their proper interpretation.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U03] formulates research hypotheses and select appropriate methods for their verification using advanced it tools.		formulates research problems and effectively solves them using properly selected econometric methods		[SU4] Assessment of ability to use methods and tools		
	[K7_W02] understands the significance and interrelationships of key components describing economic processes, drawing on in-depth knowledge aligned with major developmental trends in scientific disciplines related to the field of economic analytics.		selects appropriate econometric methods to describe microeconomic relationships in economic and social phenomena		[SW1] Assessment of factual knowledge		
Subject contents	Introduction to microeconometrics Linear models Blinder-Oaxaca decomposition Models of qualitative binomial variables (logit, probit) Models of polynomial variables (logit polynomial model, conditional logit model) Tobit model and Heckman selection Multilevel models Proportional Hazard Model: Cox Model						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Laboratory exercises		60.0%		50.0%		
	Final written exam		60.0%		50.0%		

Recommended reading	Basic literature	Gruszczynski, M. (red. nauk.), Mikroekonometria. Modele i metody analizy danych indywidualnych. Wolters Kluwer Polska, 2012. Cameron, C.A. and Trivedi, P.K. Microeconometrics: methods and applications. Cambridge University Press, 2005. Hansen, B. E. Econometrics. Princeton University Press. 2022.
	Supplementary literature	Greene W.H. Econometric Analysis, Pearson Prentice Hall, 2018 Békés, G. and Kézdi, G. Data Analysis for Business, Economics, and Policy. Cambridge University Press. 2021. https://www.ecb.europa.eu/stats/ecb_surveys/safe/html/index.en.html - Survey on the access to finance of enterprises (SAFE). Badanie obejmuje mikro-, małe, średnie i duże firmy i dostarcza informacji na temat warunków finansowania, z którymi mają do czynienia małe i średnie firmy w porównaniu z warunkami dużych przedsiębiorstw w ciągu ostatnich sześciu miesięcy. http://microdata.worldbank.org - Biblioteka mikrodanych ułatwia dostęp do danych zebranych podczas badań reprezentacyjnych gospodarstw domowych, przedsiębiorstw i innych obiektów. Te zestawy "mikrodanych" mogą również pochodzić ze spisów powszechnych ludności, mieszkań lub gospodarstw rolnych lub z procesów gromadzenia danych administracyjnych.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Problem: Using the available microdata from Eurostat, analyze the probability of becoming unemployed using the available individual data.' Discuss the results. Estimate a model explaining wage development in European Union countries using a multi-level logit model.	
Work placement	Not applicable	

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