

Subject card

Subject name and code	MICROECONOMETRICS, PG_00067631							
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	Full-time studies		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 -> Wyd Politechniki Gdańskiej				/działy			
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers	 			-		_	
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours inclu	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study SU		SUM
	Number of study hours	45		5.0		25.0		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		
	significance and interrelationships of key components describing		selects appropriate econometric methods to describe microeconomic relationships in economic and social phenomena			[SW1] Assessment of factual knowledge		
	[K7_U03] formulates research hypotheses and select appropriate methods for their verification using advanced it tools.		effectively solves them using			[SU4] Assessment of ability to use methods and tools		
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	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.				
		Hox, J. J., Moerbeek, M., & van de Schoot, R. Multilevel analysis: Techniques and Applications (3rd ed.). Routledge. 2018.				
		https://www.ecb.europa.eu/stats/ecb_surveys/safe/html/index.en.html - Survey on the access to finance of enterprises (SAFE). http://microdata.worldbank.org http://www.lisdatacenter.org				
eResources addresses		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Problem: Download LWS microdata for the US (2010) from the Luxembourg Income Study website (http://www.lisdatacenter.org/resources/self-teaching/). Analyze wealth gaps by gender and race (comparison groups) using the Blinder-Oaxaca distribution. Use adjusted disposable net worth (ANW) as the dependent variable. Your predictors should include age, household size, education, employment, disposable income, work experience, and marital status. When making an estimate, remember 'multiple imputations.' Discuss the results Question 1: Who receives higher wages: highly educated men or women? Question 2: What is the relationship between immigration status and wages (ceteris paribus)? Question 3: Do women with small children earn more or less than women without children (ceteris paribus)?					
Work placement	Not applicable					

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