



## Subject card

Subject name and code	MICROECONOMETRICS, PG_00060790						
Field of study	Economic Analytics						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
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			English		
Semester of study	1	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Piotr Paradowski				
	Teachers		dr Piotr Paradowski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45	6.0		24.0	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_W02] explains the meaning and interdependence of the key components describing economic processes, using in-depth knowledge consistent with the main trends in the development of scientific disciplines related to the field of study		selects appropriate econometric methods to describe microeconomic relationships in economic and social phenomena		[SW1] Assessment of factual knowledge		
[K7_U03] formulates research problems and selects appropriate analytical methods for their effective solution, using advanced IT tools, and evaluates the results critically		formulates research problems and effectively solves them using properly selected econometric methods		[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 Multi-level 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 in the Stata software		60.0%		30.0%		
	Case study		60.0%		70.0%		

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.
	Supplementary literature	<p><a href="https://www.ecb.europa.eu/stats/ecb_surveys/safe/html/index.en.html">https://www.ecb.europa.eu/stats/ecb_surveys/safe/html/index.en.html</a> - 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.</p> <p><a href="http://microdata.worldbank.org">http://microdata.worldbank.org</a> - 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.</p> <p><a href="http://www.lisdatacenter.org">http://www.lisdatacenter.org</a> - Zharmonizowane mikrodane dotyczące dochodów, majątku, zatrudnienia i danych demograficznych (wymagana rejestracja; zdalny dostęp do danych via LISSY).</p>
	eResources addresses	<p>Adresy na platformie eNauczenie:</p> <p>MICROECONOMETRICS - Moodle ID: 34126</p> <p><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34126">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34126</a></p>
Example issues/ example questions/ tasks being completed	<p>Problem: Download LWS microdata for the US (2010) from the Luxembourg Income Study website (<a href="http://www.lisdatacenter.org/resources/self-teaching/">http://www.lisdatacenter.org/resources/self-teaching/</a>). 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</p> <p>Question 1: Who receives higher wages: highly educated men or women?</p> <p>Question 2: What is the relationship between immigration status and wages (ceteris paribus)?</p> <p>Question 3: Do women with small children earn more or less than women without children (ceteris paribus)?</p>	
Work placement	Not applicable	