

Subject card

Subject name and code	ECONOMETRICS, PG_00058510								
Field of study	Economic Analytics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
Education level	first-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	2		Language of instruction			Polish	Polish		
Semester of study	4		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics								
Name and surname	Subject supervisor dr hab. Michał Pietrzak								
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec			SUM	
of instruction	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
		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		SUM	
	Number of study hours	60		10.0		55.0		125	
Subject objectives	Creates econometric models to analyze economic processes.								
Learning outcomes	Course outcome Subject outcome Method of verification						fication		
	[K6_U05] designs innovative solutions to complex problems obtaining economic and socially valuable results		recognizes methods used for estimation and verification of econometric models, choosing the method to fit the defined problem			[SU4] Assessment of ability to use methods and tools			
	[K6_W05] integrates multiple sources to a complex economic p	nalyze	analyzes cause and effect relationships occurring in economic processes			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	An econometric model and its components. Simple and multiple regression. Steps in building an econometric model. Specification of econometric model. Parameter estimation of linear econometric model. Method of least squares (LSM) estimation of linear econometric model. Stochastic assumptions in an econometric model. Economic verification of an econometric model. Statistical verification, assessment of the degree of model fit and testing of stochastic properties of the model. Estimation of a linear regression model using the method of moments and maximum likelihood. Multiplicative models - properties and methods of estimating parameters. Autocorrelation property of the random component - causes, effects, measurement, testing and methods of removing causes. Heterocedasticity of a random component. Generalized least squares method (GLS). Parameter estimation under autocorrelation and heteroskedasticity of the random component. Cause and effect compatible model. Econometric forecasting based on an econometric model.								
Prerequisites and co-requisites	matematics, microeconomics, macroeconomics, statistics, mathematical statistics								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	colloquium (lab)				50.0%				
	exam		60.0%			50.0%			

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Recommended reading	Basic literature	Kufel ,T. (2022). Ekonometria. Rozwiązania problemów z wykorzystaniem programu Gretl. Warszawa; Wydawnictwo Naukowe PWN Maddala, G.S. (2022). Ekonometria, Warszawa: Wydawnictwo Naukowe PWN Borkowski, B., Dudek, H., Szczęsny, W. (2020). Ekonometria. Wybrane zagadnienia, Warszawa: Wydawnictwo Naukowe PWN				
	Supplementary literature	Nowak, E. (2022) Zarys metod ekonometrii. Zbiór zadań, Warszawa: Wydawnictwo Naukowe PWN				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Consider the following inflation model: inft = 8,0 +0,6inft-1 -0,7 rt +t, where: inft annual inflation in period t (in%), rt real interest rate at the beginning of period t (in%). Identify the short-term effect of the impact of the interest rate on the level of inflation and the time-lagged inflation level.					
Work placement	Not applicable					

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