

Subject card

Subject name and code	Econometrics, PG_00068623								
Field of study	Economic Analytics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
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	Part-time studies (on-line)		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department Of Statistics And Econometrics -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej								
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	16.0	0.0	16.0	0.0		0.0	32	
	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 32		6.0		62.0 100		100		
Subject objectives	Creates econometric models to analyze economic processes.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	various sources and in methods that enable a comprehensive analysis of economic problems.					[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U05] leverages the knowledge acquired in the field of economic analytics to solve challenging problems, achieving results that are economically and socially valuable.		is able to use the learned methods of estimation and verification of econometric models			[SU4] Assessment of ability to use methods and tools			
Subject contents Prerequisites	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. matematics, microeconomics, macroeconomics, statistics, mathematical statistics								
and co-requisites									

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	exam	60.0%	50.0%		
	colloquium (lab)	60.0%	50.0%		
Recommended reading	Basic literature Supplementary literature	Kufel ,T. (2022). Ekonometria. Rozwiązania problemów z wykorzystaniem programu Gretl. Warszawa; Wydawnictwo Naukow PWN Maddala, G.S. (2022). Ekonometria, Warszawa: Wydawnictwo Naukowe PWN Borkowski, B., Dudek, H., Szczęsny, W. (2020). Ekonometria. Wybrane zagadnienia, Warszawa: Wydawnictwo Naukowe PWN Nowak, E. (2022) Zarys metod ekonometrii. Zbiór zadań, Warszawa			
	eResources addresses	Wydawnictwo Naukowe PWN 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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