



## Subject card

Subject name and code	Macroeconometrics, PG_00049956						
Field of study	Economic Analytics						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies	Subject group			Optional subject group 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		
Semester of study	4	ECTS credits			2.0		
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		Ewa Majerowska				
	Teachers		Ewa Majerowska				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
MAKROEKONOMETRIA – stacjonarne - Moodle ID: 30274 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30274">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30274</a>							
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	30		3.0		17.0	50
Subject objectives	The aim of the course is to provide students with quantitative tools and econometric models that can enable them to analyze macroeconomic data.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U08] has the ability to implement analytical methods to independently propose solutions to economic problems and verify their effectiveness		Student will have the knowledge and practical skills that allow them to use and estimate macro-econometric models.		[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		
	[K7_W12] has a broad knowledge of the evolution of structures, institutions and socio-economic relations		Student knows how to synthetically draw conclusions based on the gathered empirical data about the national economy.		[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	The aim of the course is to present the methods and models of econometric data analysis. Sources of macroeconomic data. Diagnostic and specification tests for the OLS estimator on time series and cross-sectional data. Models of time series analysis: VAR, VECM, cointegration and stationarity tests. Stochastic vs deterministic process. Stationarity and cointegration (ADF test and Engle-Granger cointegration tests). Vector Error Correction Model (VECM). Vector autoregression model (VAR).						
Prerequisites and co-requisites	Knowledge of mathematics and statistics and basic econometrics.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Research project		60.0%		100.0%		
Recommended reading	Basic literature		Maddala G.S.: Econometrics, Wydawnictwo Naukowe PWN, Warszawa 2006,  Osińska M. (red), Ekonometria współczesna, Dom organizatora, Toruń 2007,  Strzała, K.: Differently econometrics, Wyd. UG, Gdansk 1994, Mycielski, J.: Econometrics, Wyd. WNE UW, 2010 edition.				

	Supplementary literature	Kufel, T.: Econometrics. Troubleshooting using Gretl, Wydawnictwo Naukowe PWN, Warszawa 2011.
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>Estimation of a macroeconomic multi-equation model for any economy.</p> <p>Study of the stationarity of series representing exchange rates. Determine the co-integration of the ranks. Building a VAR model using real data. Examining causality between interest rates or exchange rates.</p>	
Work placement	Not applicable	