

Subject card

Subject name and code	Analysis of Macro Environment, PG_00156753						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's 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		7.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Econometrics -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dorota Ciolek				
	Teachers		dr hab. Dorota Ciolek dr Agnieszka Martynowska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	15.0	0.0	0.0	75
	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	75		30.0		70.0	175
Subject objectives	Expanding knowledge including concepts and scientific categories in macroeconomics and developing skills for its practical use; acquiring skills to analyze phenomena occurring in the economy and society on a macro scale; improving ways of using information from the economy and society to analyze the current global economic situation and assess its relevance to the activities of individual economic agents.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[liEL3_K02] The student can communicate with the public on computer science and econometrics topics in and outside the workplace, communicate his knowledge and share his skills through various media.	The student persistently pursues the goal set by the lecturer of being able to build macroeconomic models.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written [SK5] implementation of a problem task
	[liEL3_U02] The student is able to acquire basic information about economic processes and phenomena by direct observation, planned experiment or database queries, and collect and process it using modern information technology tools.	The student is able to obtain relevant statistical data on phenomena in the economy, using modern computer tools, such as Microsoft Excel.	[SU5] implementation of a problem task
	[liEL3_U07] The student can build formal models of complex economic phenomena and processes, estimate them, carry out their verification, and apply them to modelling, forecasting and optimization of the resources of low-complexity economic institutions, their structure and the course of processes in them.	The student is able to build and estimate relevant models on the national economy, verify their predictive properties, and use these models to build forecasts along with assessing their accuracy ex ante.	[SU4] test/exam - oral or written [SU5] implementation of a problem task
	[liEL3_K01] The student understands the need to constantly supplement and deepen acquired knowledge; is open to new ideas and teaching methods.	The student understands the need for continuous study of the literature on macroeconomics (including in foreign languages) in order to be able to apply the latest developments of its theory in his research.	[SK1] oral statement/conversation/discussion
	[liEL3_W04] The student has advanced knowledge of mathematical, statistical, econometric and computer methods of obtaining, processing and analysing data depicting the functioning and development of the national economy and its elements, as well as the phenomena and processes occurring in their environment.	The student is familiar with advanced statistical and econometric methods used for comparative analysis of morphological features of business cycles in selected economies.	[SW4] test/exam - oral or written [SW5] implementation of a problem task
	[liEL3_W02] The student has advanced knowledge of economic structures and institutions, the processes in them, the connections between them and their dynamics; knows the phenomena and processes occurring in their environment.	The student is familiar with measures of the level of production and national income in the economy, such as GDP, GNP or HDI, and their determinants.	[SW4] test/exam - oral or written [SW5] implementation of a problem task
	[liEL3_U05] The student can make a statistical description of advanced economic categories, formulate and verify simple hypotheses on their formation.	The student is able to prepare the statistical data necessary to estimate macroeconomic models and manage this data in appropriate software, such as GRETL.	[SU5] implementation of a problem task
	[liEL3_U01] The student can comprehensibly, orally and in writing, present and justify advanced economic theories and apply them to explain the functioning of the national economy and its elements. Understands and can explain the content of communications of economic institutions, articles published in the economic press and scientific journals.	The student can explain, using professional economic literature, the information flowing from the economy and use this information to analyze the current economic situation in the country and the world.	[SU4] test/exam - oral or written [SU5] implementation of a problem task
Subject contents	1. Reiteration of basic macroeconomics. 2. National income accounting and determinants of national income. 3. Macroeconomic production function as a basis for macroeconomic models. 4. Macroeconomic comparative analysis in international and interregional terms. Measurement of competitiveness of countries and regions. 5. Labor market analysis. 6. Foreign trade and exchange rate. 7. The concept, construction and information content of economic indicators. 8. Test and barometer of the economy. 9. Methods of isolating economic fluctuations. 10. Comparative analysis of morphological features of business cycles in selected economies.		

Prerequisites and co-requisites	A. Prerequisites - elementary knowledge of macroeconomics and tools of statistical-econometric analysis. B. Formal requirements - passing the subjects: Economics I, Economics II, Statistics I, Statistics II, Econometrics.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Analytical project	51.0%	50.0%
	Examination grade (written exam)	51.0%	50.0%
Recommended reading	Basic literature	1. Krugman P., Wells R. (2012), Makroekonomia, Wydawnictwo Naukowe PWN. 2. Rubaszek M., Serwa D. (2009), Analiza kursów walutowych, Wydawnictwo C.H. Beck, Warszawa. 3. Suhecki B. (red.) (2010), Ekonometria przestrzenna, Wydawnictwo C.H. Beck. 4. Wooldridge J.M. (2002), Econometric analysis of cross section and panel data, MIT Press.	
	Supplementary literature	1. Balcerowicz-Szkutnik M., Dyduch M., Szkutnik W. (2010), Wybrane modele i analizy rynku pracy. Uwarunkowania rynku pracy i wzrostu gospodarczego. Prace Naukowe. Uniwersytet Ekonomiczny w Katowicach. 2. Barczyk R., Kąsek L., Lubiński M., Marczewski K. (2006), Nowe oblicza cyklu koniunkturalnego, PWE, Warszawa. 3. Brzeszczyński J., Kelm R. (2002), Ekonometryczne modele rynków finansowych. Modele kursów giełdowych i kursów walutowych, Wig-Press, Warszawa. 4. Gawlikowska-Hueckel K., Szlachta J. (red.) (2014), Wrażliwość polskich regionów na wyzwania współczesnej gospodarki. Implikacje dla polityki rozwoju regionalnego, Wolters Kluwer. 5. Kokocińska M., Strzała K. (2007), Zintegrowany system oceny aktywności przedsiębiorstw i prognozowania kategorii makroekonomicznych, Wydawnictwo Akademii Ekonomicznej w Poznaniu, Poznań. 6. Rubaszek M. (2012), Modelowanie polskiej gospodarki z pakietem R, Oficyna Wydawnicza SGH, Warszawa. 7. Tomczyk E. (2004), Racjonalność oczekiwań. Metody i analiza danych jakościowych, Oficyna Wydawnicza SGH, Warszawa. 8. Zaucha J., Brodzicki T., Ciołek D., Komornicki T., Mogiła Z., Szlachta J., Zaleski J. (2015), Terytorialny wymiar wzrostu i rozwoju, Difin, Warszawa.	
	eResources addresses	Basic https://bg.ug.edu.pl/e-biblioteka/e-ksiazki - Library of the University of Gdansk	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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