

**Subject card**

<b>Subject name and code</b>	Analysis of Macro Environment, PG_00178109						
<b>Field of study</b>	Informatics and Econometrics						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>				2027/2028	
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>				Optional subject group Subject group related to scientific research in the field of study	
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>				at the university	
<b>Year of study</b>	2	<b>Language of instruction</b>				Polish	
<b>Semester of study</b>	4	<b>ECTS credits</b>				7.0	
<b>Learning profile</b>	academic	<b>Assessment form</b>				exam	
<b>Conducting unit</b>	Department of Econometrics -> Faculty of Management -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Lech Kujawski				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	30.0	30.0	15.0	0.0	0.0	75
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	75		4.0		96.0	175
<b>Subject objectives</b>	The broadening of knowledge encompassing concepts and scientific categories within the field of macroeconomics, along with the development of skills for their practical application; the acquisition of competencies enabling the analysis of phenomena occurring in the economy and society at the macro level; the refinement of methods for utilizing information derived from economic and societal processes to assess the current global economic situation and evaluate its implications for the operations of individual economic entities.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[liEL3_U03] Students can obtain data from appropriately selected sources, use these data to solve economic and social problems, and process and interpret them using econometrics, informatics or statistics tools.	Obtains relevant statistical data related to economic phenomena using modern information technology tools, such as R, Gretl, or Stata.	[SU2] presentation/project/paper/report
	[liEL3_U02] Students can select or construct econometrics, informatics or statistics tools and apply them to describe and solve economic and social problems.	Possesses knowledge of and proficiently applies advanced statistical and econometric methods used for comparative analysis of the morphological characteristics of business cycles in selected economies.	[SU2] presentation/project/paper/report
	[liEL3_W04] The student has advanced knowledge and understanding of human roles, places, and behaviour in organizations or projects, both as individuals and in group and organizational dimensions.	Interprets information derived from the economy using specialized economic literature and applies this information to analyze the current economic situation both domestically and globally.	[SW2] presentation/project/paper/report
	[liEL3_U04] Students can build and interpret models of economic and social phenomena and processes for decision-making processes.	Constructs and estimates appropriate models related to the national economy, verifies their forecasting properties, and uses these models to develop forecasts along with an ex-ante assessment of their accuracy.	[SU2] presentation/project/paper/report
[liEL3_W03] To an advanced degree, the student knows and understands how an organization functions, the phenomena, processes and relationships occurring in its environment, and their impact on its functioning.	Understands the necessity of continuously studying macroeconomic literature (including in foreign languages) in order to apply the latest theoretical advancements in their research.	[SW2] presentation/project/paper/report	
Subject contents	<ol style="list-style-type: none"> <li>1. Review of fundamental macroeconomic concepts.</li> <li>2. National income accounting and the determinants of national income.</li> <li>3. The macroeconomic production function as a foundation for macroeconomic models.</li> <li>4. Comparative macroeconomic analyses in international and interregional contexts. Measurement of countries and regions competitiveness.</li> <li>5. Labor market analysis.</li> <li>6. Foreign trade and exchange rates.</li> <li>7. Concept, construction, and informational content of business cycle indicators.</li> <li>8. Business cycle tests and barometers.</li> <li>9. Methods for identifying business cycle fluctuations.</li> <li>10. Comparative analysis of the morphological characteristics of business cycles in selected economies.</li> </ol>		
Prerequisites and co-requisites	Completion of courses in econometrics, statistics, and macroeconomics.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Individually prepared written semester project	51.0%	100.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Krugman P., Wells R. (2012), <i>Makroekonomia</i>, Wydawnictwo Naukowe PWN.</li> <li>2. Rubaszek M., Serwa D. (2009), <i>Analiza kursów walutowych</i>, Wydawnictwo C.H. Beck, Warszawa.</li> <li>3. Suhecki B. (red.) (2010), <i>Ekonometria przestrzenna</i>, Wydawnictwo C.H. Beck.</li> <li>4. Wooldridge J.M. (2002), <i>Econometric analysis of cross section and panel data</i>, MIT Press.</li> </ol>	

	Supplementary literature	<ol style="list-style-type: none"> <li>1. Balcerowicz-Szkutnik M., Dyduch M., Szkutnik W. (2010), <i>Wybrane modele i analizy rynku pracy. Uwarunkowania rynku pracy i wzrostu gospodarczego</i>, Prace Naukowe, Uniwersytet Ekonomiczny w Katowicach.</li> <li>2. Barczyk R., Kąsek L., Lubiński M., Marczewski K. (2006), <i>Nowe oblicza cyklu koniunkturalnego</i>, PWE, Warszawa.</li> <li>3. Brzeszczyński J., Kelm R. (2002), <i>Ekonometryczne modele rynków finansowych. Modele kursów giełdowych i kursów walutowych</i>, Wig-Press, Warszawa.</li> <li>4. Gawlikowska-Hueckel K., Szlachta J. (red.) (2014), <i>Wrażliwość polskich regionów na wyzwania współczesnej gospodarki. Implikacje dla polityki rozwoju regionalnego</i>, Wolters Kluwer.</li> <li>5. Kokocińska M., Strzała K. (2007), <i>Zintegrowany system oceny aktywności przedsiębiorstw i prognozowania kategorii makroekonomicznych</i>, Wydawnictwo Akademii Ekonomicznej w Poznaniu, Poznań.</li> <li>6. Rubaszek M. (2012), <i>Modelowanie polskiej gospodarki z pakietem R</i>, Oficyna Wydawnicza SGH, Warszawa.</li> <li>7. Tomczyk E. (2004), <i>Racjonalność oczekiwań. Metody i analiza danych jakościowych</i>, Oficyna Wydawnicza SGH, Warszawa.</li> <li>8. Zaucha J., Brodzicki T., Ciołek D., Komornicki T., Mogiła Z., Szlachta J., Zaleski J. (2015), <i>Terytorialny wymiar wzrostu i rozwoju</i>, Difin, Warszawa.</li> </ol>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> <li>• Estimation of the Total Factor Productivity (TFP) of the economy of a selected country.</li> <li>• Analysis of the business cycle of a selected country.</li> <li>• Estimation of the central exchange rate.</li> </ul>	
Work placement	Not applicable	

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