



## Subject card

Subject name and code	MACROECONOMIC ANALYSES LABORATORY, PG_00037059						
Field of study	Economic Analytics						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2023/2024		
Education level	second-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			English		
Semester of study	3	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Economic Sciences -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Aleksandra Parteka				
	Teachers						
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						
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	4.0		16.0		50
Subject objectives	Main aim of the course is twofold: (i) to provide students with a structured and analytically sound understanding of how economy functions and (ii) teach students what analytical tools can be employed for macroeconomic analysis. The main focus will be on the macro perspective of economic analysis: key issues of economic performance -productivity, national accounts and GDP, price stability, unemployment, interest rates, government budget and international trade deficits, fiscal and monetary policy, technological change, the labor market.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K01] understands the need for continuous learning and, in particular, for advanced and modern tools for data analysis		Student knows various tools of macroeconomic analysis.		[SK2] Assessment of progress of work		
	[K7_U07] can use the acquired knowledge of economic sciences and quantitative methods to identify, formulate and propose solutions to specific economic problems and assess their effectiveness		Student knows how to assess the impact of macroeconomic policies (eg. monetary policy, fiscal policy) using methods of quantitative analysis.		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_W02] has a broadened knowledge of how to describe economic phenomena using quantitative methods		Student know how to apply tools of descriptive statistics and regression analysis to analyse macroeconomic phenomena.		[SW2] Assessment of knowledge contained in presentation		
	[K7_U09] has the ability to use advanced mathematical tools to analyse and assess economic phenomena and to make decisions by economic operators		Student knows how to use advanced mathematical tools to analyse macroeconomic phenomena.		[SU2] Assessment of ability to analyse information		
	[K7_W07] has an in-depth knowledge on methods of social and economic phenomena description, including market information acquisition techniques and methods of analysis and modelling of economic processes		Student knows quantitative methods of socio-economic analysis with the use of real data.		[SW2] Assessment of knowledge contained in presentation		

Subject contents	<p>Each topic: 2 hours.</p> <ol style="list-style-type: none"> <li>1. Introduction to macroeconomic analysis.</li> <li>2. Sources of macroeconomic data.</li> <li>3. Tools of descriptive statistics used in macroeconomic analysis.</li> <li>4. Regression model and its application to macroeconomic analysis.</li> <li>5. Measurement and analysis of national income.</li> <li>6. Productivity measurement and productivity growth decomposition.</li> <li>7. Measuring technological change.</li> <li>8. Market and expenditure spending by Individuals, Firms, and Governments on Real Goods and Services.</li> <li>9. Money market and monetary policy analysis.</li> <li>10. Taxes and fiscal policy analysis.</li> <li>11. Financial markets analysis.</li> <li>12. Unemployment and the labour market analysis.</li> <li>13. Prices and inflation.</li> <li>14. Aspects of international macroeconomic analysis part I</li> <li>15. Aspects of international macroeconomic analysis part II</li> </ol>											
Prerequisites and co-requisites	Basic knowledge of macroeconomics, maths and excel.											
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Subject passing criteria</th> <th style="width: 33%;">Passing threshold</th> <th style="width: 34%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>project</td> <td>60.0%</td> <td>50.0%</td> </tr> <tr> <td>lab assessment</td> <td>60.0%</td> <td>50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	project	60.0%	50.0%	lab assessment	60.0%	50.0%
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Recommended reading	<p>Basic literature</p> <p>Gary Koop (2013). Analysis of Economic Data. 4th Ed. Wiley. Olivier Blanchard David W. Johnson, (2013) Macroeconomics, 6/ESBN-10: 0133061639 ISBN-13: 9780133061635©2013 Prentice Hall Blanchard, O., Giavazzi, F., &amp; Amighini, A. (2013). <i>Macroeconomics: A European Perspective</i>. Pearson Higher Ed. Farnham, P. G. (2013). <i>Economics for managers</i>. Pearson Higher Ed. Roger LeRoy Miller (2016) Economics Today: The Macro View, 18/E , ISBN-10: 0133884872 ISBN-13: 9780133884876©2016 Prentice Hall</p>											
	<p>Supplementary literature</p> <p>A.H. Studenmund (2011). Using Econometrics: A Practical Guide, 6/E ISBN-10: 0131367730 ISBN-13: 9780131367739©2011 Prentice Hall Jacques, I. (2013). Mathematics for Economics and Business. ISBN-10: 0273763563 ISBN-13: 9780273763567©2013 Prentice Hall</p>											
	eResources addresses											
Example issues/ example questions/ tasks being completed	<p>Use PWT 9.1</p> <ul style="list-style-type: none"> <li>• Create a subsample of the data, containing various indicators (variables) that can be used to proxy country size.</li> <li>• Compute a table of correlation coefficients (correlation matrix) between various size variables. <ul style="list-style-type: none"> <li>• First compute the correlations using the panel data.</li> <li>• Then calculate the correlations using a cross-section: a subsample for one year only (the most recent year in the database).</li> </ul> </li> <li>• Comment.</li> </ul>											
Work placement	Not applicable											