



## Subject card

Subject name and code	Essentials of micro- and macroeconomics, PG_00045359						
Field of study	Data Engineering						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
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	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			English		
Semester of study	2	ECTS credits			5.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Krzysztof Zięba					
	Teachers	dr hab. inż. Krzysztof Zięba dr Jakub Golik					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	45.0	0.0	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	4.0		46.0		125
Subject objectives	The goal of the course is to get students acquainted with foundations of micro- and macroeconomics, as well as with practical issues related to modern market economy operations.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U07] can describe and interpret fundamental economic concepts and phenomena.	Students appreciate dynamic economics changes in modern economies and therefore they realise how important it is to update the economic knowledge.			[SU2] Assessment of ability to analyse information		
	[K6_K02] is aware of the role of a technical university graduate in the society; reflects on ethical, scientific and social aspects of the performed work; understands the necessity of participation in social projects and complies with copyright law, taking into account economic, legal and technical aspects.	Students are able to formulate proper opinions regarding economic issues. They appreciate the social role of data engineering.			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W09] has advanced knowledge of the nature of economic sciences and ways of its description with IT tools	Students know the scope of economics as science and basic problems analysed in economics. They understand the nature of major economics problems in modern economies. They know main sources of economic data and are aware of how to process this data using simple IT tools.			[SW1] Assessment of factual knowledge		

Subject contents	<p>Introduction to Economics Ten Principles</p> <p>Economic Way of Thinking</p> <p>Market in Action S-D Model of Market</p> <p>Elasticity and Its Application</p> <p>Price Controls, Consumer and Producer Surplus</p> <p>Theory of Costs</p> <p>Perfect Competition</p> <p>Pure Monopoly</p> <p>Oligopoly</p> <p>Gross Domestic Product</p> <p>Unemployment</p> <p>Inflation</p> <p>Government Budget</p> <p>Money</p> <p>Banking System</p>											
Prerequisites and co-requisites	General knowledge level typical for a secondary school graduate.											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 1352 794 1379">Subject passing criteria</th> <th data-bbox="799 1352 1141 1379">Passing threshold</th> <th data-bbox="1145 1352 1482 1379">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 1386 794 1413">Three seminar tests</td> <td data-bbox="799 1386 1141 1413">60.0%</td> <td data-bbox="1145 1386 1482 1413">50.0%</td> </tr> <tr> <td data-bbox="453 1420 794 1447">Written exam</td> <td data-bbox="799 1420 1141 1447">60.0%</td> <td data-bbox="1145 1420 1482 1447">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Three seminar tests	60.0%	50.0%	Written exam	60.0%	50.0%
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<p>Example issues/ example questions/ tasks being completed</p>	<p>Market failures include . and .</p> <p>The concept of invisible hand of the market was developed by</p> <p>1) Which of the following does NOT add to U.S. GDP?</p> <p>a) General Motors builds a new auto factory in North Carolina.</p> <p>b) Air France buys a plane from Boeing, the U.S. aircraft manufacturer.</p> <p>c) The federal government sends a Social Security check to your grandmother.</p> <p>d) The city of New York pays a salary to a policeman.</p> <p>1) The city government is considering a following tax proposal - a tax of \$1 per-hot-dog, paid by producers of hot-dogs. Which curves would shift as a result of this tax?</p> <p>a) AVC, ATC, MC</p> <p>b) AVC, ATC</p> <p>c) AFC, ATC</p> <p>d) AFC, ATC, MC</p>
<p>Work placement</p>	<p>Not applicable</p>

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