



Subject card

Subject name and code	Fundamentals of Economics, PG_00038583						
Field of study	Technical Physics						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2026/2027	
Education level	first-cycle studies	Subject group				Optional subject group Humanistic-social subject group	
Mode of study	Full-time studies	Mode of delivery				at the university	
Year of study	1	Language of instruction				Polish	
Semester of study	2	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Divison of Differential Equations and Applications of Mathematics -> Institute of Applied Mathematics -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Świetlik				
	Teachers		dr inż. Krzysztof Świetlik				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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		2.0		18.0	50
Subject objectives	The aim of the course is to familiarize students with the basic elements of microeconomic and macroeconomic knowledge and practical problems of the functioning of the modern market economy.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences		The student knows economic laws and understands how they work; is able to explain observed changes in economic processes on the basis of these laws.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment		The student possesses and understands the need to continually improve their economic and financial skills in response to the intensity of changes in the economic and social environment. The student understands the need to make proper economic decisions in the context of the interests of the social group of which they are a member.		[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment		Students understand cause-and-effect relationships in economic processes. Students can use these skills to propose and implement appropriate actions for businesses, institutions, and households aimed at achieving the best possible financial situation in the short and long term.		[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		

Subject contents	Course content – lecture  1) Economics as a Science. 2) Market, Demand, and Supply. 3) Elasticity of Demand and Its Applications. 4) Theory of Consumption Decisions 5) Production Function 6) Production Cost Analysis 7) Forms of Market Organization 8) Measuring National Income. 9) Production and Its Growth. 10) The World Economy - Development Trends. 11) Labor Market Problems 12) The Financial System and Its Importance in the Economy 13) Inflation in the Economy 14) Fiscal and Monetary Policy											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="451 663 794 696">Subject passing criteria</th> <th data-bbox="794 663 1137 696">Passing threshold</th> <th data-bbox="1137 663 1477 696">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 696 794 730">Attendance at lectures</td> <td data-bbox="794 696 1137 730">100.0%</td> <td data-bbox="1137 696 1477 730">15.0%</td> </tr> <tr> <td data-bbox="451 730 794 763">Written test</td> <td data-bbox="794 730 1137 763">60.0%</td> <td data-bbox="1137 730 1477 763">85.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Attendance at lectures	100.0%	15.0%	Written test	60.0%	85.0%
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Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Try to estimate the opportunity cost of the selected decision in company management.</li> <li>2. Explain the difference between economics (analysis) and economy (normative analysis).</li> <li>3. List the factors (at least 3) that can cause the demand curve to shift to the right X (good X is a normal good).</li> <li>4. Plot the limit of production possibilities for X and Y goods. What do the points lying on the border, what is below and what above the border mean?</li> <li>5. Draw demand curves for salt, cosmetics, Dior perfumes, cars, coal, gasoline</li> </ol>											
Practical activities within the subject	Not applicable											

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