



Subject card

Subject name and code	Fundamentals of Economics, PG_00038583						
Field of study	Technical Physics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		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	Division 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_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 understands the need to improve economic and financial skills throughout life. The student is able to find solutions to economic problems in the company.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences		The student knows basic economic laws, understands their actions, knows how to refer them to the functioning of the company.		[SW1] Assessment of factual knowledge		
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment		The student is able to find the right information of an economic and financial nature. The student is able to apply economic knowledge to solve problems in the social environment.		[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
Subject contents	Course content – lecture 1) Economics as a science. 2) Market, demand and supply. 3) Flexibility of demand and its use. 5) Analysis of production costs. 6) Forms of organizing markets. 4) Measuring national income. 5) Production and its growth. 6) World economy - development trends. 7) Problems of the labor market. 8) The banking system and its importance in the economy. 9) Inflation in the economy.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Attendance at lectures	100.0%	15.0%
	Written test	60.0%	85.0%
Recommended reading	Basic literature	N.Gregory Mankiw, Mark P. Taylor, Mikroekonomia. PWE Warszawa, 2022 N.Gregory Mankiw, Mark P. Taylor, Makroekonomia. PWE Warszawa, 2023	
	Supplementary literature	B. Winiarski, Polityka gospodarcza, PWN, Warszawa 2006	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Try to estimate the opportunity cost of the selected decision in company management. 2. Explain the difference between economics (analysis) and economy (normative analysis). 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). 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? 5. Draw demand curves for salt, cosmetics, Dior perfumes, cars, coal, gasoline		
Practical activities within the subject	Not applicable		

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