University of Gdańsk

Subject card

Subject name and code	Microeconomics, PG_00206261						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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	part-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		5.0		
Learning profile	academic		Assessment form		exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Marek Kołatka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	16.0	0.0	0.0	0.0	24
	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	24		1.0		100.0	125
Subject objectives	The aim of the course is to familiarize students with the principles of making economic choices, the behavior of market participants: consumers and producers and various types of market competition, as well as the behavior of entities in the production factor markets.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[IiEL3_U01] Can analyze and interpret social and economic processes and phenomena using knowledge and econometrics, informatics or statistics tools from management and quality sciences, economics and finance	The student is able to analyze and interpret how enterprises behave in markets and how the decisions of customers and producers affect their operations.	[SU1] oral statement/conversation/ discussion
[IiEL3_W01] Knows and understands to an advanced degree the nature and evolution of theories in management, quality sciences, economics, and finance, along with their place in the social sciences system —especially in applying informatics or statistics tools	The student possesses advanced knowledge and understanding of fundamental microeconomic phenomena, including demand, supply, consumer and producer behavior in the market, as well as the functioning of perfect and imperfect competition.	[SW4] test/exam - oral or written
[IiEL3_W02] Knows and understands, to an advanced degree, selected theoretical and practical issues in informatics, statistics or econometrics necessary for understanding economic and social phenomena	The student possesses advanced knowledge and understanding of the relationships between consumers and producers in the market under normal conditions, as well as under perfect and imperfect competition, and of the tasks performed by antitrust authorities in protecting market competition and mitigating the social costs of monopolies and oligopolies.	[SW4] test/exam - oral or written
[IiEL3_U02] Can select or construct econometrics, informatics or statistics tools and apply them to describe and solve economic and social problems	The student is able to select and appropriately apply definitions of such concepts as monopoly, oligopoly, competition, demand, supply, and others, and to employ them correctly when analyzing fundamental microeconomic phenomena based on real-world examples and economic and social problems.	[SU4] test/exam - oral or written

Subject contents

Lecture:
1. Economics as a science - main economic trends
2. Market, demand, supply, price
3. Consumer choice theory
4. Producer choice theory
5. Perfect competition
6. Imperfect competition
7. Basics of the theory of division. The market of production factors: labor, land and capital

Exercises:
1. Introduction to economic issues, normative and positive economics, factors of production
2. Resource constraints, opportunity cost, production possibilities frontier, concept and elements of the market, state intervention and market mechanisms
3. The law of demand, demand curve, price and non-price determinants of demand, the law of supply, supply curve, price and non-price determinants of supply
4. Market equilibrium, market surplus and shortage, price elasticity of demand and supply in the short and long run
5. Indifference curve, budget constraint line
6. The concept of utility, total and marginal utility, demand curve of an individual consumer
7. Short-run theory of production (production function, variable and fixed factors of production, total product, average and marginal product), long-run theory of production (scale effects, choice of production technique to maximize profit, isoquants, marginal substitution rate, isocosts)
8. Production costs (accounting and economic costs, balance sheet and economic profit, fixed costs, variable costs, average costs, marginal costs, long-term costs)
9. Price, value, income, economic profit, normal and loss, total, average and marginal revenue
10. Producer equilibrium in the short term: break-even point, rational loss limit, short-term supply curve, industry supply curve, producer equilibrium in the long term, optimal production structure: transformation curve, marginal rate of transformation, line of equal revenue
11. Monopoly equilibrium
12. Monopolistic competition
13. Circular flow of income and wealth, differentiation of income and wealth and its measures
14. Land market and physical capital market
15. Financial capital market

Prerequisites and co-requisites

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>written exam</td><td>51.0%</td><td>100.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Milewski R., Kwiatkowski E. (red.), Podstawy ekonomii, Wydawnictwo naukowe PWN, Wydanie IV, Warszawa 2018 (rozdziały: 1-2 oraz 4-8).
2. Samuelson P. A., Nordhaus W. D., Ekonomia, Rebis, Wydanie III, Poznań 2017 (rozdziały: 1-15).
3. Kwiatkowski E., Kucharski L., Podstawy ekonomii ćwiczenia i zadania, Wydawnictwo Naukowe PWN, Warszawa 2018 (rozdziały: 1-6).
4. Fisher S., Gianluigi V., Dombusch R., Begg D., Mikroekonomia, PWE, Warszawa 2013 (rozdziały:1-11).
5. Smith P., Begg D., Zbiór zadań, PWE, Warszawa 2001 (rozdziały: 1-3, 5-12).</td></tr>
<tr><td>Supplementary literature</td><td>1. McKenzie, R.B., Economics, Houghton Mifflin School, Boston, USA 1986 (rozdz. 22).
2. Pindyck R. S., Rubinfeld D. L., Microeconomics, 8th Edition, Pearson, New Jersey, USA 2013.
3. Mankiw G. N., Principles of Microeconomics, 5th Edition, Cengage Learning, Mason, USA 2008.
4. Jehle G. A., Reny P. J., Advanced Microeconomic Theory, 3rd Edition, Pearson Education Limited,Essex, England 2011
5. Krugman P., Wells R., Mikroekonomia, PWN, Warszawa 2012 (część VI, rozdział 13).
6. Konat G., Smuga T., Paradoksy ekonomii, PWN, Warszawa 2022.
7. Melitz M. J., Obstfeld M., Krugman P. R., Ekonomia międzynarodowa, tom 2, PWN, Warszawa 2018 (rozdział 15).
8. Greenlaw A.A., Shapiro D., Karpa W., Maszczyk P. i inni, Mikroekonomia podstawy, podręcznik do pobrania: https://openstax.org/details/books/mikroekonomia-podstawy
9. Nogal P., Racjonalność ekonomiczna w kontekście teorii użyteczności, Studia Ekonomiczne. Zeszyty Naukowe Uniwersytetu Ekonomicznego w Katowicach, 2014, nr 180, s. 154-162.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Characteristics of demand; characteristics of supply; the concept of opportunity cost; the nature and characteristics of the producer market; characteristics of perfect competition; characteristics of monopoly; and characteristics of the circular flow of income and wealth.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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