University of Gdańsk

Subject card

Subject name and code	Microeconomics, PG_00206266					
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	full-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	15.0	30.0	0.0	0.0	0.0	45
	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	45		3.0	77.0		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_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 has knowledge of basic microeconomic phenomena: demand, supply, consumer and producer behavior on the market, 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 describes the relationship between the consumer and the producer on the market under normal conditions, on the market of perfect and imperfect competition, and the tasks of antitrust offices in the protection of competition on markets and leveling the social costs of monopolies and oligopolies.	[SW4] test/exam - oral or written
	[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 compares how companies behave in markets and how the decisions of customers and producers affect their activities.	[SU4] 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 interprets definitions such as monopoly, oligopoly, competition, demand, supply, etc., and identifies and interprets basic microeconomic phenomena based on examples of functioning.	[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

15. Financial capital market

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written exam	51.0%	100.0%

Recommended reading	Basic literature	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).
	Supplementary literature	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.
	eResources addresses	
Example issues/ example questions/ tasks being completed	**Topics:** The behavior of individual economic agents (consumers and producers) and the market mechanisms that lead to price determination and the allocation of scarce resources in the economy. Consumer choice theory (utility, preferences, budget constraints), the theory of production and costs (production function, fixed costs, variable costs, marginal costs), and the analysis of various market structures. **Questions:** What factors shape demand and supply, and how does their interaction lead to the determination of the equilibrium price and quantity, and what are the effects of government intervention (price floors and price ceilings)? What does consumer utility maximization under a budget constraint entail, and how does the theory of production explain the formation of costs and the firm's decisions regarding the level of output? How do market structures differ in terms of the number of producers, price control, and barriers to entry, and what are the economic and social consequences of the functioning of a monopoly compared to perfect competition?	
Work placement	Not applicable	

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