GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	LOGIC, PG_00058394		
Field of study	Economic Analytics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study 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	1	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Philosophy and Science Methodology -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Andrzej Lisak	
	Teachers	dr hab. Andrzej Lisak	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	15.0	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	5.0	50.0	100

Subject objectives

Formulates solutions to complex problems using basic laws and techniques of logic.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W02] Demonstrates advanced knowledge of methods and techniques related to the field of study in economic analytics to explain complex problems.	analyzes any theorems in terms of their logical and argumentative correctness	[SW1] Assessment of factual knowledge
[K6_U04] Develops logical solutions to complex or unstructured problems in processes conducted under conditions of uncertainty	selects optimal decision variants using basic logical operations: classifying, defining and reasoning	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

What is logic?
Logic and language.
Functions of language. logic and meaning.
Name and concept.
Definitions and division.
Propositions and judgments and their forms.
Sentential calculus.
Rules of sentential calculus.
Predicate calculus.
Basic notions of set theory.
Syllogistic logic. Deductive, reductive and inductive reasoning.
The meaning of logic for solving scientific questions.
Logic in economics. Logic and rethoric.
Discussions of chosen logical dilemmas and solving problems.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Homeworks	60.0%	15.0%
Presenting chosen subjects	100.0%	20.0%
Oral exam	60.0%	65.0%

Recommended reading	Basic literature	K. Ajdukiewicz, Zarys logiki. PZWS, Warszawa, 1957; L. Borkowski, Elementy logiki formalnej. PWN, Warszawa, 1974; B. Stanosz, Wprowadzenie do logiki formalnej. PWN, Warszawa, 1985; Z. Ziembiński, Logika praktyczna. PWN, Warszawa, 1998.
	Supplementary literature	Mała encyklopedia logiki, Wrocław. Warszawa, Kraków, Ossolineum, 1970; Ch. Perelman, Retoryka a sztuka argumentacji. PWN, Warszawa, 2003.
	eResources addresses	Adresy na platformie eNauczanie: Logika (AG I STAC 2024) - Moodle ID: 42314 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42314 Logika (E I STAC 2024) - Moodle ID: 42306 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42306
Example issues/ example questions/ tasks being completed	Examine given sentences and give its conclusion	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.