



## Subject card

Subject name and code	LOGIC, PG_00058394						
Field of study	Economic Analytics						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2022/2023		
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_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		
	[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		
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 rhetoric. 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		
	Oral exam	60.0%			65.0%		
	Homeworks	60.0%			15.0%		
	Presenting chosen subjects	100.0%			20.0%		

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. Ziemiński, 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 eNauczenie: Logika STAC 2022/2023 - Moodle ID: 27106 <a href="https://enauczenie.pg.edu.pl/moodle/course/view.php?id=27106">https://enauczenie.pg.edu.pl/moodle/course/view.php?id=27106</a>
Example issues/ example questions/ tasks being completed	Examine given sentences and give its conclusion	
Work placement	Not applicable	

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