



## Subject card

Subject name and code	LOGIC, PG_00058546						
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	Part-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 Social Sciences and Philosophy -> 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	16.0	8.0	0.0	0.0	0.0	24
	E-learning hours included: 0.0						
Logika NSTAC 2022/2023 - Moodle ID: 27109 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27109">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27109</a>							
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		5.0		71.0	100
Subject objectives	Formulates solutions to the problems by applying basic logical rules and techniques,						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U04] formulates logical solutions to complex or unstructured problems		makes optimal decisions by applying basic logical operations: classification, definition, inference		[SU4] Assessment of ability to use methods and tools		
	[K6_W02] demonstrates comprehensive preparation in the field of methods, techniques for formulating and solving problems		analyzes basic statements and investigates its 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 significance 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		
	Presenting chosen subjects		100.0%		20.0%		
	Oral exam		60.0%		65.0%		
	Homeworks		60.0%		15.0%		
Recommended reading	Basic literature		Kazimierz Ajdukiewicz, (1957). Zarys logiki. Warszawa: PZWS. Leszek Borkowski. (1974). Elementy logiki formalnej. Warszawa: PWN. Barabara Stanosz. (1985). Wprowadzenie do logiki formalnej. Warszawa: PWN. Zygmunt Ziembiński. (1998). Logika praktyczna. Warszawa: PWN.				

	Supplementary literature	Mała encyklopedia logiki, (1970). Warszawa: Ossolineum. Chaim Perelman. (2003). Retoryka a sztuka argumentacji. Warszawa: PWN.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Examine given sentences and give its conclusion	
Work placement	Not applicable	