



## Subject card

Subject name and code	LOGIC, PG_00058546						
Field of study	Economic Analytics						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
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 (on-line)	Mode of delivery			blended-learning		
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: 18.0						
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		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_W02] demonstrates comprehensive preparation in the field of methods, techniques for formulating and solving problems	analyzes basic statements and investigates its logical and argumewntative correctness			[SW1] Assessment of factual knowledge		
	[K6_U04] formulates logical solutions to complex or unstructured problems	makes optimalk decisions by applying basic logical operations: classification, definition, inference			[SU4] Assessment of ability to use methods and tools		
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 Caclus. Basic Notions of Set Theory. Syllogistic Logic. Deductive, Reductive and Inductive Reasoning. The significance of Logic for solving scientific Questtions. Logic in Economics. Logic and rethoric. Discussions of chosen logical dilemas 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	Ajdkiewicz,K. (1957). Zarys logiki. Warszawa: PZWS. Borkowski, L. (1974). Elementy logiki formalnej. Warszawa; PWN. Stanosz, B. (1985). Wprowadzenie do logiki formalnej. Warszawa: PWN. Ziemiński, Z. (1998). Logika praktyczna. Warszawa: PWN.					

	Supplementary literature	Mała encyklopedia logiki. (1970). Warszawa: Ossolineum. Perelman, C. (2003). Retoryka a sztuka argumentacji. Warszawa: PWN.
	eResources addresses	Adresy na platformie eNauzanie: Logika ( AG NSTAC ONLINE) - Moodle ID: 32707 <a href="https://enauzanie.pg.edu.pl/moodle/course/view.php?id=32707">https://enauzanie.pg.edu.pl/moodle/course/view.php?id=32707</a>
Example issues/ example questions/ tasks being completed	Examine given sentences and give its conclusion	
Work placement	Not applicable	