



## Subject card

Subject name and code	Elements of Logic, PG_00037800						
Field of study	Economic Analytics						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2020/2021		
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			blended-learning		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			2.0		
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	15.0	15.0	0.0	0.0	0.0	30
	E-learning hours included: 15.0						
Elementy logiki - Moodle ID: 8449 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8449">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8449</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	30		5.0		15.0	50
Subject objectives	The aim of the course is to acquire knowledge and skills in the field of logic.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U05] Correctly uses legal and ethical norms in solving specific tasks and problems in the functioning of socio-economic structures.		Analyzes, recognizes and applies in practise basic logical operations such as: classification, definition, inference etc.		[SU2] Assessment of ability to analyse information		
[K6_W01] Has a basic knowledge of the nature of economic sciences and their place in the system of social sciences and relations to other areas of science.		Student names, explains and defines fundamental concepts, rules and techniques of logic necessary to assess economic problems		[SW1] Assessment of factual knowledge			
Subject contents	LECTURES 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. TUTORIALS 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		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						

Example issues/ example questions/ tasks being completed	Examine given sentences and give its conclusion
Work placement	Not applicable