GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	LOGIC, PG_00058546
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	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	

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_U04] formulates logical solutions to complex or unstructured problems	makes optimalk decisions by applying basic logcal 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 argumewntative 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 Caculus. 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
	Oral exam	60.0%	65.0%
	Presenting chosen subjects	100.0%	20.0%
	Homeworks	60.0%	15.0%

Recommended reading	Basic literature	Ajdukiewicz,K. (1957). Zarys logiki. Warszawa: PZWS. Borkowski, L. (1974). Elementy logiki formalnej. Warszawa; PWN. Stanosz, B. (1985). Wprowadzenie do logiki formalnej. Warszawa: PWN. Ziembiński, 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 eNauczanie:
Example issues/ example questions/ tasks being completed	Examine given sentences and give its conclusion	
Work placement	Not applicable	