

Subject card

Subject name and code	LOGIC, PG_00061387								
Field of study	Engineering Management								
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				
Mada of study	Part-time studies		Mode of delivery			Humanistic-social subject group at the university			
Mode of study	1		Mode of delivery			Polish			
Year of study	1		Language of instruction ECTS credits			4.0			
Semester of study	•					assessment			
Learning profile	general academic profile		Assessment form						
Conducting unit	· ·		Philosophy -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Andrzej Lisak						
, ,	Teachers		Tutorial Laboratory Project			t Seminar SUM			
Lesson types and methods of instruction	Number of study hours	Lecture 16.0	8.0	0.0	Projec 0.0		Seminar 0.0	24	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	24		5.0		71.0		100	
Subject objectives	Formulates solutions to complex problems using basic laws and techniques of logic								
Learning outcomes	Course outcome Subject outcome Method of verification						ification		
	[K6_W02] demonstrates advanced preparation in the methods and techniques of formulating and solving problems		analyzes any theorems in terms of their logical and argumentative correctness			[SW1] Assessment of factual knowledge			
	[K6_U04] formulates logical solutions to complex or unstructured problems		selects optimal decision variants using basic logical operations: classifying, defining and reasoning			[SU3] Assessment of ability to use knowledge gained from the subject			
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 rethoric Discussions of chosen logical dilemmas and solving problems								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	Oral exam		60.0%		65.0%				
	Homeworks		60.0%			15.0%			
	Presenting chosen subjects					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. Ziembiński, Logika praktyczna. PWN, Warszawa, 1998 						

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	Supplementary literature	Mała encyklopedia logiki, Wrocław. Warszawa, Kraków, Ossolineum, 1970 Ch. Perelman, Retoryka a sztuka argumentacji. PWN, Warszawa, 200				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Examine given sentences and give its conclusion					
Work placement	Not applicable					

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