

Subject card

Subject name and code	LOGIC, PG_00061438							
Field of study	Engineering Management							
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		
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Mode of study	Part-time studies (on-line)		Mode of delivery			blended-learning Polish		
Year of study	1		Language of instruction					
Semester of study	1		ECTS credits			4.0		
Learning profile			Assessment form			assessment		
Conducting unit			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	Lesson type	Lecture	Tutorial	Laboratory	Project Seminar		SUM	
of instruction	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 classes include plan		Participation consultation I			udy	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							
	[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		
	[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		
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 and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	Oral exam		60.0%		65.0%			
	Homeworks		60.0%			15.0%		
	Presenting chosen subjects		100.0% 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, 2003
	eResources addresses	Adresy na platformie eNauczanie: Logika (Z NSTAC ONLINE) - Moodle ID: 32710 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=32710
Example issues/ example questions/ tasks being completed	Examine given sentences and give i	ts conclusion
Work placement	Not applicable	

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