University of Gdańsk

Subject card

Subject name and code	An Introduction to Mathematics, PG_00198232		
Field of study	Informatics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	5.0
Learning profile	academic	Assessment form	exam
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Jerzy Topp, prof. UG	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	30.0	0.0	0.0	0.0	60

E-learning hours included: 0.0

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	60	0.0	65.0	125

Subject objectives

non applicable

Learning outcomes

Course outcome	Subject outcome	Method of verification
[INFOL3_U02] is able to use his/her knowledge of higher mathematics to model and solve complex problems	Is able to apply propositional calculus, quantifiers and induction in defining concepts, reasoning and proving theorems; operate on sets, functions and relations and interpret problems in the language of set theory; analyse cardinality and orderings.	[SU4] test/exam - oral or written
[INFOL3_W02] knows and undrstands advanced concepts of discrete mathematics, probabilistic methods and statistics	The student has knowledge of the basic concepts of propositional calculus, set theory, describes the basic properties of the set of natural numbers, functions and relations	[SW4] test/exam - oral or written

Subject contents

non applicable

Prerequisites and co-requisites

Knowledge of mathematics at secondary school level.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
homework and tests	51.0%	50.0%
exam	51.0%	50.0%

Recommended reading	Basic literature	1. J. Topp, Wstęp do matematyki, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2015. 2. W. Guzicki, P. Zakrzewski, Wykłady ze wstępu do matematyki. Wprowadzenie do teorii mnogości, WN PWN, Warszawa 2005. 3. W. Guzicki, P. Zakrzewski, Wstęp do matematyki. Zbiór zadań, WN PWN, Warszawa 2005. 4. J. Kraszewski, Wstęp do matematyki, WNT, Warszawa 2007. 5. H. Rasiowa, Wstęp do matematyki współczesnej, WN PWN, Warszawa 2004.
	Supplementary literature	non applicable
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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