

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Mathematics I, PG_00055840							
Field of study	Architecture							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026		
Education level	first-cycle 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			4.0		
Learning profile			Assessment form			assessment		
Conducting unit	Mathematics Center							
Name and surname of lecturer (lecturers)	Subject supervisor mgr Katarzyna Kuja Teachers			a Kujawska				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Project		t	Seminar	SUM	
	Number of study hours	15.0	30.0	0.0	0.0		0.0	45
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		8.0				100
Subject objectives	Students obtain competence in the range of using methods of matematical analysis ang linear algebra and knowledge how to solve simple problems that can be found in the field of engineering.							
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design		knows and understands mathematics to the extent necessary to formulate and solve tasks in the area of architectural and urban design; Student examines the position of lines and planes in space Student solves equations and inequalities with elementary functions Student evaluates the limits of sequences Student gives a graphic interpretation of discontinuity points			[SW3] Assessment of knowledge contained in written work and projects		
			Student recognizes the importance of skillful use of basic mathematical apparatus in terms of study in the future.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
Subject contents	 Elementary functions Sequences Limit of the function Continuity of a function Elements of linear algebra Analytic geometry in three- dimensional space Conic curves 							
Prerequisites and co-requisites	No requirements.							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	activity		0.0%		10.0%			
	midterm colloquium		50.0%			90.0%		

Recommended reading	Basic literature	 "Matematyka - podstawy z elementami matematyki wyższej" WPC K.T.Jankowscy "Zbiór zadań z matematyki" WPG KT. Jankowscy Zadania z matematyki wyższej WPG M.Gewert, Z.Skoczylas "Analiza matematyczna I - Przykłady i zadania" 				
	Supplementary literature	 W.Krysicki, L.Włodarski "Analiza matematyczna w zdaniach I" W.Stankiewicz "Zadania z matematyki dla wyższych uczelni technicznych I" 				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	 Find the domain and range of the function f(x)= Determine the inverse function of f Evaluate the limit of the given sequence (an) Evaluate the limit of the given function f(x)= at the point x0= Analyse the continuity of the following function f(x)= Show that the points A, B, C, D do not lie on the plane. Discuss the relative position of the given lines I1 and I2. 					
Work placement	Not applicable					

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