

Subject card

Subject name and and	Mathematics PG 00055649								
Subject name and code	Mathematics I, PG_00055649								
Field of study	Architecture								
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			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			English			
Semester of study	1		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Mathematics Center -> Vice-Rector for Education								
Name and surname	Subject supervisor		dr inż. Magdalena Łapińska						
of lecturer (lecturers)	Teachers		dr inż. Magdalena Łapińska						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	aboratory Project		Seminar	SUM	
	Number of study hours	15.0	30.0	0.0	.0 0.0		0.0	45	
	E-learning hours inclu	ıded: 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	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						ification		
[K6_W01] knows and underst construction problems, building design; principles, solutions, constructions and building materials used in simengineering tasks in the field architectural and urban design.			Student uses the methods of elementary mathematics, linear algebra, and analytic geometry to formulate and solve simple problems in the area of architecture. Student solves equations and inequalities with elementary functions. Student costructs inverse functions of exponential, logarytmic, trygonometric and cyclometric functions. Student solves exercises involving infinite sequences.			[SU4] Assessment of ability to use methods and tools			
		es, building les related to ciples, ons and ed in simple the field of	Student names the basic properties of elementary functions and plots their graphs. Student understands the notion of a continuous function and uses limits of functions to determine continuity. Student analyses problems from analytical three-dimensional geometry.			[SW1] Assessment of factual knowledge			
Subject contents	1. Elementary functions 2. Sequences 3. Limit of the function 4. Continuity of a function 5. Elements of linear algebra 6. Analytic geometry in three- dimensional space 7. Conic curves								
Prerequisites and co-requisites	No requirements.								
Assessment methods Subject passing criteria			Passing threshold			Percentage of the final grade			
and criteria	Midterms		50.0%			100.0%			

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Recommended reading	Basic literature	 "Matematyka - podstawy z elementami matematyki wyższej" WPG 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:				
		WA - A - Mathematics 1 2023/24 (M.Łapińska) - Moodle ID: 31281 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31281				
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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