

## Subject card

Subject name and code	Mathematics I, PG_00055840								
Field of study	Architecture								
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			
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	general academic profile		Assessment form			assessment			
Conducting unit	Mathematics Center -> Vice-Rector for Education								
Name and surname	Subject supervisor mgr Katarzyna Kujawska								
of lecturer (lecturers)	Teachers		mgr Katarzyna Kujawska						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	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	45		8.0		47.0		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		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			
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		importance of skillful use of basic mathematical apparatus in terms			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
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 and criteria	Subject passing criteria		Pass	Passing threshold		Percentage of the final grade			
	midterm colloquium		50.0%		90.0%				
	activity		0.0%			10.0%			
Recommended reading	Basic literature	<ul> <li>"Matematyka - podstawy z elementami matematyki wyższej" WPG</li> <li>K.T.Jankowscy "Zbiór zadań z matematyki" WPG</li> <li>KT. Jankowscy Zadania z matematyki wyższej WPG</li> <li>M.Gewert, Z.Skoczylas "Analiza matematyczna I - Przykłady i zadania"</li> </ul>							

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	Supplementary literature	W.Krysicki, L.Włodarski "Analiza matematyczna w zdaniach I"     W.Stankiewicz "Zadania z matematyki dla wyższych uczelni				
	eResources addresses	technicznych I"  Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	1. Find the domain and range of the function f(x)= Determine the inverse function of f 2. Evaluate the limit of the given sequence (an) 3. Evaluate the limit of the given function f(x)= at the point x0= 4. Analyse the continuity of the following function f(x)= 5. Show that the points A, B, C, D do not lie on the plane. 6. Discuss the relative position of the given lines I1 and I2.					
Work placement	Not applicable					

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