

## Subject card

Subject name and code	MATHEMATICS I, PG_00052829								
Field of study	Architecture								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
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 mgr Dorota Garbowska							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=5791 Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		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_U04] is able to use analytical methods to formulate and solve project tasks		importance of skillful use of basic			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	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			
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		Passing threshold			Percentage of the final grade			
	activity		0.0%			10.0%			
	midterm colloquium		50.0%			90.0%			

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

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