

Subject card

Subject name and code	, PG_00051063								
Field of study	Technical Physics								
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Date of commencement of studies	October 202 I		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			blended-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			11.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Probability Theory and Biomathematics -> Faculty of Applied Physics and Mathema					nematics			
Name and surname	Subject supervisor dr Joanna Cyman								
of lecturer (lecturers)	Teachers		mgr inż. Katarzyna Tessmer						
		dr Joanna Cyman							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	60.0	60.0	0.0	0.0		0.0	120	
	E-learning hours included: 60.0								
	Adresy na platformie eNauczanie:								
	Analiza matematyczna I 2021/2022 - Moodle ID: 13665 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13665								
Learning activity and number of study hours	Learning activity	Participation ir classes include plan				Self-study		SUM	
	Number of study hours 120		10.0			145.0		275	
Subject objectives	Endowment of student to mathematical knowledge helping technical objects								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U01					[SU2] Assessment of ability to analyse information			
	K6_W03					[SW1] Assessment of factual knowledge			
Subject contents	Number sequences, convergent (divergent) sequences. Functions of one variable and their properties. Inverse trigonometric functions. Limit of function, continuous functions. Differential calculus of one variable. Derivative of function. Monotone function, convex (concave) function, extremum of function, asymptote of function. Rule of d'Hospital. Taylor's formula. Geometric and physical aplications of derivative. Indefinite integrals.								
Prerequisites and co-requisites	Student knows basic	mathematical r	notions						

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Exercise	0.0%	Percentage of the final grade 10.0%			
	Examination	0.0%	40.0%			
	Colloquium 2		25.0%			
	Colloquium 1	0.0%	25.0%			
Recommended reading	Basic literature	J. J. Topp, Mathematics. Function of one variable, Publishing House of University of Gdansk, 2016 M. Gewert, Z. Skoczylas. Mathematical analysis 1. Definitions, theorems, formulas. Wroław GiS 2017. B. Wikieł, Matematyka. Basics with elements of higher mathematics, Wydawnictwo Politechniki Gdańskiej, 2015				
		 J. Dymkowska, D. Beger - Differential calculus in tasks, Publishing House of Gdańsk University of Technology, 2016 J. Dymkowska, D. Beger - Integral calculus in tasks, Publishing House of Gdańsk University of Technology, 2017 				
	Supplementary literature K. Jankowska, T. Jankowski, Set of exercises from mathematics. Publishing House of Gdańsk University of Technology, 2009					
	eResources addresses	Analiza matematyczna I 2021/2022 - Moodle ID: 13665 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13665				
Example issues/ example questions/ tasks being completed	Find extremum of the function Find the limit of a function					
Work placement	Not applicable					

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