

Subject card

Subject name and code	Specialization seminar, PG_00049172								
Field of study	Mathematics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute Of Applied Mathematics -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechr Gdańskiej					Politechniki			
Name and surname	Subject supervisor		dr inż. Robert Krawczyk						
of lecturer (lecturers)	Teachers			,					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	0.0		30.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study		SUM		
	Number of study hours			5.0		40.0		75	
Subject objectives	The aim of the course is to prepare the student for the diploma examination, including the presentation of the specialization project underway, as well as familiarization with the questions for the diploma examination and learning more about these questions.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U12		Learned the basics of statistical reasoning and knows how to apply them to the studied issues.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools			
	K6_K04		The student is able to answer the questions on the list prepared for the diploma examination			[SK4] Assessment of communication skills, including language correctness			
	K6_K01		the student is able to prepare a short presentation covering his bachelor's thesis and answer any questions about the work			[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice			
	K6_W04		He can use the basic mathematical concepts in the field of the work.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	K6_W05		He can use the basic mathematical concepts in the field of the work.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			

Data wygenerowania: 19.04.2025 23:08 Strona 1 z 2

Subject contents	mathematical analysis (number sequences, differential and integral calculus). Ordinary differential equations (basic methods of solving equations), linear algebra (matrix, determinant, linear transformation, eigenvectors and eigenvalues), analytic geometry (line equation, vectors and vector product, conic sections), algebra (groups, rings, bodies). Basic concepts in financial mathematics (financial leverage, NPV, random component, Chow test,type I and II error)					
Prerequisites and co-requisites	Knowledge of the knowledge needed to complete the diploma project in your subject. Knowledge of the basic concepts of first-cycle studies, allowing you to understand the presentation of other speakers.					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	prelection	50.0%	100.0%			
Recommended reading	Basic literature	any				
, toooninionada raaanig	Supplementary literature	any				
	eResources addresses					
Example issues/ example questions/ tasks being completed	Continuity and differentiability of functions Green and Stokes theorem					
	3. Conical curves					
	4. Transforms and orthogonal matrices					
	5. Derivative of a complex function. Cauchy-Riemann equations					
Work placement	Not applicable					

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 19.04.2025 23:08 Strona 2 z 2