



Subject card

Subject name and code	Specialization seminar, PG_00049176						
Field of study	Mathematics						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
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	Instytut Matematyki Stosowanej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Piotr Bartłomiejczyk				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		40.0	75
Subject objectives	The aim of the course is to prepare the student for the presentation of the project, as well as to acquaint students with the questions for the Bc examination and to learn more about these questions.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W05		Is able to apply basic mathematical concepts concerning the topic of the thesis.		[SW2] Assessment of knowledge contained in presentation		
	K6_K04		The student can answer the questions on the list prepared for the diploma examination		[SK4] Assessment of communication skills, including language correctness		
	K6_U12		Is familiar with statistical reasoning and is able to it the studied matters.		[SU4] Assessment of ability to use methods and tools		
	K6_K01		the student is able to prepare a short presentation covering his bachelor's thesis and answer any questions about the thesis.		[SK2] Assessment of progress of work		
	K6_W04		Got acquainted the knowledge of basic facts and theorems related to the subject of the thesis		[SW2] Assessment of knowledge contained in presentation		
Subject contents	1. Exam questions, Mathematics I, General list 2. Exam questions, Mathematics I, Specialty list 3. Group specialty project						
Prerequisites and co-requisites	The Knowledge needed to write a Bc project on own subject. Knowledge of the basic concepts of first-cycle studies, allowing to understand the presentation of other speakers						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Presentation		50.0%		100.0%		

Recommended reading	Basic literature	any
	Supplementary literature	any
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>1. Continuity and differentiability of functions</p> <p>2. Green and Stokes theorems</p> <p>3. Conical curves</p> <p>4. Orthogonal transforms and matrices</p> <p>5. Derivative of a complex function, Cauchy-Riemann equations</p>	
Work placement	Not applicable	