



## 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	<ol style="list-style-type: none"> <li>1. Continuity and differentiability of functions</li> <li>2. Green and Stokes theorems</li> <li>3. Conical curves</li> <li>4. Orthogonal transforms and matrices</li> <li>5. Derivative of a complex function, Cauchy-Riemann equations</li> </ol>	
Work placement	Not applicable	