



Subject card

Subject name and code	Specialization seminar, PG_00049175						
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	Zakład Analizy Nieliniowej -> Instytut Matematyki Stosowanej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marcin Styborski					
	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 eNauczenie:						
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 students for the bachelor's exam and for the presentation of their specialization project. Issues from the list of questions for the exam are presented. Students are to acquire basic skills in presenting their work.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_W04	The student knows and understands the statements that are used in the final project.			[SW2] Assessment of knowledge contained in presentation		
	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_U12	The student knows the basics of statistical reasoning and knows how to use them to solve problems.			[SU4] Assessment of ability to use methods and tools		
	K6_K01	After his presentation, the student receives feedback, thanks to which he is aware of what he should improve in the presentation and what knowledge he should acquire.			[SK2] Assessment of progress of work		
	K6_W05	The student is able to use the basic mathematical concepts in the field of the work. Draws attention to the analysis of counterexamples.			[SW2] Assessment of knowledge contained in presentation		
Subject contents	<ol style="list-style-type: none">Exam questions, 1st degree Maths, General questionsExam questions, 1st degree mathematics, specialty questionsGroup specialty projects						

Prerequisites and co-requisites	Acquaintance with the knowledge needed to prepare a specialization project on their subject. Understanding the basic concepts of 1st degree studies, allowing to understand the presentation of other speakers.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Evaluation of the presentation	50.0%	100.0%
Recommended reading	Basic literature	Each student selects literature individually on the basis of the topic of his / her work and questions from the list that he is developing.	
	Supplementary literature	Nie dotyczy	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. To tell about the project in preparation 2. Formulate the fundamental theorem of calculus 3. Give the definition of measurable space 4. Define complex differentiability and discuss the differences with the derivative of the function of a real variable. 		
Work placement	Not applicable		