

Subject card

Subject name and code	Practical teaching of mathematics 1 in secondary school I, PG_00155578						
Field of study	Mathematics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Optional subject group Specialty subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		4.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Institute of Mathematics -> Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Adrian Karpowicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
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		10.0		60.0	100
Subject objectives	The aim of the internship is to gain experience related to the didactic and educational work of a teacher and to confront the acquired knowledge in the field of subject-specific didactics with the pedagogical reality through practical application.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[MATMU2_K01] is willing to acknowledge the limitations of his or her own knowledge and is willing to pursue further education		The student is willing to acknowledge the limitations of their own knowledge and is ready to continue their education.		[SK8] observation of student's independent or team work		
	[MATMU2_K04] is ready to understand and appreciate the importance of intellectual honesty in one's own and other people's actions; ethical conduct		The student is willing to understand and appreciate the importance of intellectual honesty in their own actions and those of others, as well as ethical conduct.		[SK8] observation of student's independent or team work		

Subject contents	• The organization of the mathematics teaching process in secondary school. • Structure and types of lessons. Practical exercises in preparing lesson plans. • Various classroom work methods, including individual student work and group work. • Adjusting teaching methods, didactic materials, and language of instruction to the student's developmental stage and level of mathematical proficiency. • Issues related to monitoring and assessing students work. • Supporting the development of gifted students and those interested in mathematics. Measures to support students struggling with mathematics. • Observation and teaching of lessons by students; analysis of these lessons. Documentation of activities. • Introducing students to the content found in secondary school textbooks and problem sets. • Practical exercises in solving tasks (both typical and more challenging) and in writing down reasoning in a clear, correct, and student-accessible manner.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Observation of the student's attitude	51.0%	0.0%
	Lesson plans	51.0%	20.0%
	Conducting lessons	51.0%	60.0%
	Activity in discussion	51.0%	20.0%
Recommended reading	Basic literature	• Core curriculum, teaching programs, methodological guides, and other materials for teachers. • School textbooks, workbooks, problem sets, and other resources for students. • Popular science books and articles. • Journals for mathematics teachers (e.g., <i>Matematyka</i>, <i>Matematyka w Szkole</i>, <i>Nauczyciel i Matematyka</i>).	
	Supplementary literature	Websites dedicated to didactic theory as well as practical solutions and best practices used in teaching at the secondary school level.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	none		
Work placement	Field exercises		

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