University of Gdańsk

Subject card

Subject name and code	Practical Teaching of Mathematics 1 in Secondary School II, PG_00207046						
Field of study	Mathematics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
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 Elżbieta Mrożek				
	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		6.0		39.0	75
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
	The student is able to: draw conclusions from observing the teacher's teaching, their interactions with students, and the way teaching is planned and conducted; actively observe the teacher's methods and work formats, the teaching aids used, as well as the methods of assessing students and assigning and checking homework; plan and conduct a series of lessons or activities under the supervision of the internship supervisor; analyze, with the assistance of the internship supervisor and academic teachers conducting classes in the field of psychological and pedagogical preparation, pedagogical situations and events observed or experienced during the internship. The student is ready to: effectively collaborate with the internship supervisor and teachers to expand their teaching knowledge and develop their educational skills.	[SU1] oral statement/conversation/ discussion [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	The student knows and understands: the teaching tasks carried out by a school or educational institution; the functioning and organization of teaching work at a school or educational institution; the types of documentation of teaching activities conducted at a school or educational institution.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	The student is ready to: effectively collaborate with the internship supervisor and teachers to expand their teaching knowledge and develop their educational skills.	[SK8] observation of student's independent or team work

Subject contents

1. The organization of the mathematics teaching process in secondary school.
2. Structure and types of lessons. Practical exercises in preparing lesson plans.
3. Various classroom work methods, including individual student work and group work.
4. Adjusting teaching methods, didactic materials, and language of instruction to the student's developmental stage and level of mathematical proficiency.
5. Issues related to monitoring and assessing students work.
6. Supporting the development of gifted students and those interested in mathematics. Measures to support students struggling with mathematics.
7. Observation and teaching of lessons by students; analysis of these lessons. Documentation of activities.
8. 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
Activity in discussion	51.0%	20.0%
Lesson plans	51.0%	20.0%
observation of the student's attitude	51.0%	0.0%
Conducting lessons	51.0%	60.0%

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., *Matematyka*, *Matematyka w Szkole*, *Nauczyciel i Matematyka*).
	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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