University of Gdańsk

Subject card

Subject name and code	Practical Teaching of Mathematics 1 in Elementary School, PG_00204263		
Field of study	Mathematics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study 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	5	ECTS credits	5.0
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 Agnieszka Demby	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	60.0	0.0	0.0	0.0	60

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	60	5.0	60.0	125

Subject objectives

The aim of the internship is to gather experience related to the didactic and educational work of a teacher and to confront the acquired knowledge in the field of detailed didactics with the pedagogical reality in practical activity.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[MATL3_K02] is ready to critically evaluate the knowledge and content received and to seek expert opinion in case of difficulties in solving a problem by himself/herself	Is ready to critically evaluate his/her knowledge and to seek the opinion of the internship supervisor when solving school problems.	[SK1] oral statement/conversation/discussion
[MATL3_K03] is ready to perform professional roles responsibly, to compliance with the rules of professional ethics and to require the same from others, as well as to care for the achievements and traditions of professions related to the field of mathematics	He is ready to take on the role of a school teacher responsibly and act ethically towards students.	[SK6] demonstration of practical skills [SK8] observation of student's independent or team work
[MATL3_K01] is ready to acquire knowledge in order to solve cognitive and practical problems related to the field of mathematics and to use the opinions and assistance of experts	Is ready to acquire the knowledge needed for school teaching and to use the assistance of a practice supervisor.	[SK2] presentation/project/paper/report

<table>
<tr><td>Subject contents</td><td>1. Organization of the mathematics teaching process in primary school.
2. Specificity of the intellectual development of a student aged 10-15.
3. Lesson structure. Types of lessons.
4. Lesson objectives.
5. Various methods of work in the classroom, including individual work of the student and in a team.
6. Use of demonstrative means in teaching.
7. Adaptation by the teacher of work methods, teaching aids and language of expression to the student's developmental stage and to their level of advancement in mathematics.
8. Communication with the student.
9. Notes on the board and in the student's notebook.
10. Problems of monitoring and assessing students' work.
11. Supporting the development of a gifted student interested in mathematics. Procedures for the development of a student who has problems with mathematics.
12. Observation by the student of the teacher's lesson and the lessons of other students; documenting classes. Analyzing observed lessons.
13. Lesson planning. Practical exercises in preparing lesson plans. Conducting lessons and analyzing lessons conducted.
14. Familiarizing students with the material contained in textbooks and collections of tasks from primary school.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Activity in discussion.</td><td>51.0%</td><td>20.0%</td></tr>
<tr><td>observation of the student's attitude</td><td>51.0%</td><td>0.0%</td></tr>
<tr><td>Conducting lessons.</td><td>51.0%</td><td>60.0%</td></tr>
<tr><td>Lesson plans.</td><td>51.0%</td><td>20.0%</td></tr>
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<tr><td>Recommended reading</td><td>
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<tr><td>Basic literature</td><td>1. Core curriculum, curricula, methodological guides and other works for teachers.
2. School textbooks, workbooks, collections of tasks and other works for students.
3. Popular science books and articles.
4. Magazines for mathematics teachers (including: "Matematyka", "Matematyka w Szkole").</td></tr>
<tr><td>Supplementary literature</td><td>Websites devoted to the theory of didactics and practical solutions and good practices used in teaching at primary school level.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Propose a lesson plan for students of class 5 - on the topic: Introduction to the concept of a prism. What visual aids will be useful here?</td></tr>
<tr><td>Work placement</td><td>Field exercises</td></tr>
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