University of Gdańsk

Subject card

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| 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<br>Optional subject group<br>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 |
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| | | The student is ready to:<br>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 |
| | | The student is able to:<br><br>draw conclusions from observing the teacher's teaching, their interactions with students, and the way teaching is planned and conducted;<br><br>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;<br><br>plan and conduct a series of lessons or activities under the supervision of the internship supervisor;<br><br>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.<br>The student is ready to:<br><br>effectively collaborate with the internship supervisor and teachers to expand their teaching knowledge and develop their educational skills. | [SU1] oral statement/conversation/ discussion<br>[SU6] demonstration of practical skills<br>[SU8] observation of student's independent or team work |
| | | The student knows and understands:<br><br>the teaching tasks carried out by a school or educational institution;<br><br>the functioning and organization of teaching work at a school or educational institution;<br><br>the types of documentation of teaching activities conducted at a school or educational institution. | [SW1] oral statement/ conversation/discussion<br>[SW3] text preparation/written 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 |
| | [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<br>[SK8] observation of student's independent or team work |
| | [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 |

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| Subject contents | 1. Organization of the mathematics teaching process in primary school.<br>2. Specificity of the intellectual development of a student aged 10-15.<br>3. Lesson structure. Types of lessons.<br>4. Lesson objectives.<br>5. Various methods of work in the classroom, including individual work of the student and in a team.<br>6. Use of demonstrative means in teaching.<br>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.<br>8. Communication with the student.<br>9. Notes on the board and in the student's notebook.<br>10. Problems of monitoring and assessing students' work.<br>11. Supporting the development of a gifted student interested in mathematics. Procedures for the development of a student who has problems with mathematics.<br>12. Observation by the student of the teacher's lesson and the lessons of other students; documenting classes. Analyzing observed lessons.<br>13. Lesson planning. Practical exercises in preparing lesson plans. Conducting lessons and analyzing lessons conducted.<br>14. Familiarizing students with the material contained in textbooks and collections of tasks from primary school. |
| Prerequisites and co-requisites | |

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
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| Lesson plans. | 51.0% | 20.0% |
| Activity in discussion. | 51.0% | 20.0% |
| observation of the student's attitude | 51.0% | 0.0% |
| Conducting lessons. | 51.0% | 60.0% |

**Recommended reading**

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| Basic literature | 1. Core curriculum, curricula, methodological guides and other works for teachers.<br>2. School textbooks, workbooks, collections of tasks and other works for students.<br>3. Popular science books and articles.<br>4. Magazines for mathematics teachers (including: "Matematyka", "Matematyka w Szkole"). |
| Supplementary literature | Websites devoted to the theory of didactics and practical solutions and good practices used in teaching at primary school level. |
| eResources addresses | |

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| Example issues/ example questions/ tasks being completed | 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? |
| Work placement | Field exercises |

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