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|----|--------------------------------|-----------------------------------|
| 1. | Field of study                 | Mathematics                       |
| 2. | Faculty                        | Faculty of Science and Technology |
| 3. | Academic year of entry         | 2025/2026 (winter term)           |
| 4. | Level of qualifications/degree | second-cycle studies              |
| 5. | Degree profile                 | general academic                  |
| 6. | Mode of study                  | part-time                         |

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| 7.                                                                                | General information about the module |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Module name                                                                       |                                      | Education Practicum from Mathematics, Tutoring I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Module code                                                                       |                                      | W4-MT-N2-25-PNMat1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of the ECTS credits                                                        |                                      | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Language of instruction                                                           |                                      | Polish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purpose and description of the content of education                               |                                      | <p>Celem praktyki w szkole jest gromadzenie doświadczeń związanych z pracą dydaktyczno – wychowawczą nauczyciela na III etapie edukacyjnym (szkoła ponadpodstawowa) i konfrontowanie nabytej wiedzy z zakresu matematyki, dydaktyki ogólnej i dydaktyki matematyki z rzeczywistością pedagogiczną w działaniu praktycznym.</p> <p>W trakcie pobytu w szkole student poznaje sposoby funkcjonowania szkoły ponadpodstawowej, jej zadania dydaktyczne, organizację pracy oraz rodzaje związanej z tym dokumentacji.</p> <p>Uczy się również wyciągać wnioski z aktywnej obserwacji pracy dydaktycznej nauczyciela (stosowanych przez niego metod, form pracy, środków dydaktycznych, sposobów oceniania, sposobów zadawania pracy domowej), samodzielnie planować i przeprowadzać lekcje matematyki oraz analizować obserwowane i doświadczane zdarzenia pedagogiczne.</p> <p>Przygotowuje się też do współdziałania z nauczycielami celem poszerzania wiedzy i rozwijania umiejętności wychowawczych.</p> |
| List of modules that must be completed before starting this module (if necessary) |                                      | not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| 8.        | Learning outcomes of the module                                                                                                                                                                                                                                                                                                          |                                           |                                |  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--|
| Code      | Description                                                                                                                                                                                                                                                                                                                              | Learning outcomes of the programme        | Level of competenc (scale 1-5) |  |
| PNMat1_01 | Student zna i rozumie zadania dydaktyczne realizowane przez szkołę lub placówkę systemu oświaty                                                                                                                                                                                                                                          | KN.2023_W08<br>KN.2023_W09                | 3<br>3                         |  |
| PNMat1_02 | Student zna i rozumie sposób funkcjonowania oraz organizację pracy dydaktycznej szkoły lub placówki systemu oświaty                                                                                                                                                                                                                      | KN.2023_W08<br>KN.2023_W09<br>KN.2023_W11 | 3<br>3<br>1                    |  |
| PNMat1_03 | Student zna i rozumie rodzaje dokumentacji działalności dydaktycznej prowadzonej w szkole lub placówce systemu oświaty                                                                                                                                                                                                                   | KN.2023_W08<br>KN.2023_W09                | 3<br>3                         |  |
| PNMat1_04 | Student potrafi wyciągnąć wnioski z obserwacji pracy dydaktycznej nauczyciela, jego interakcji z uczniami oraz sposobu planowania i przeprowadzania zajęć dydaktycznych; aktywnie obserwować stosowane przez nauczyciela metody i formy pracy oraz wykorzystywane pomoce dydaktyczne, a także sposoby oceniania uczniów oraz zadawania i | KN.2023_U01<br>KN.2023_U08                | 3<br>3                         |  |

|           |                                                                                                                                                                                           |                                                              |                  |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------|
|           | sprawdzania pracy domowej                                                                                                                                                                 | KN.2023_U11                                                  | 3                |
| PNMat1_05 | Student potrafi zaplanować i przeprowadzić pod nadzorem opiekuna praktyk zawodowych serię lekcji lub zajęć;                                                                               | KN.2023_U02<br>KN.2023_U03<br>KN.2023_U15                    | 3<br>3<br>3      |
| PNMat1_06 | student potrafi analizować przy pomocy opiekuna praktyk zawodowych sytuacje i zdarzenia pedagogiczne zaobserwowane lub doświadczane w czasie praktyk                                      | KN.2023_U02<br>KN.2023_U13                                   | 3<br>3           |
| PNMat1_07 | Student jest gotów do skutecznego współdziałania z opiekunem praktyk zawodowych i nauczycielami w celu poszerzania swojej wiedzy dydaktycznej oraz rozwijania umiejętności wychowawczych. | KN.2023_KS01<br>KN.2023_KS03<br>KN.2023_KS05<br>KN.2023_KS07 | 3<br>3<br>3<br>3 |

| 9. Methods of conducting classes |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Code                             | Category                    | Name (description)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| b04                              | Problem-solving methods     | Activating method – discussion / debate<br><i>an exchange of views supported by substantive arguments leading to a clash of different views, a compromise or the identification of common positions; it proceeds according to previously agreed-upon rules regarding the time, manner and turn-taking as well as the principles of civil discourse; a discussion is not a competition but aims at finding the best solutions or presenting different points of view; its varieties include brainstorming, Oxford-style debate, panel discussion, decision tree, conference discussion; a debate is an orderly dispute between supporters and opponents of a viewpoint, usually specialists in the field or pre-selected representatives of a group dealing with a common problem</i> |
| d02                              | Programmed learning methods | Working with a programmed textbook<br><i>working with a textbook containing instructional material covering part of or the entire curriculum of the module as well as a formula for studying the content; includes working with a subject textbook, an atlas, a catalogue, a problem book, etc.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| e05                              | Practical methods           | Internship<br><i>including professional and individual training; gaining skills and experience in real-life conditions, e.g., in the environment, institution or workplace the student is preparing for by following a specific study programme; training in real working conditions</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| f02                              | Methods of self-learning    | Individual work with a text<br><i>searching for and acquiring new information using textbooks and other written sources (including their digital versions); searching for texts, selecting fragments for analysis/interpretation, using other texts to solve a problem related to the studied issue</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| 10. Forms of teaching |          |                 |                                                   |                                                                             |                               |
|-----------------------|----------|-----------------|---------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------|
| Code                  | Name     | Number of hours | Assessment of the learning outcomes of the module | Learning outcomes of the module                                             | Methods of conducting classes |
| PNMat1_01             | workshop | 45              | course work                                       | PNMat1_01, PNMat1_02, PNMat1_03, PNMat1_04, PNMat1_05, PNMat1_06, PNMat1_07 | d02, e05, f02                 |
| PNMat1_02             | tutoring | 1               | course work                                       | PNMat1_04, PNMat1_06                                                        | b04                           |

| 11. The student's work, apart from participation in classes, includes in particular: |                         |                                                                                                                                                                                                                                                                                                                 |                         |
|--------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Code                                                                                 | Category                | Name (description)                                                                                                                                                                                                                                                                                              | Is it part of the BUNA? |
| a01                                                                                  | Preparation for classes | Search for materials and review activities necessary for class participation<br><i>reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes</i>                              | Yes                     |
| a02                                                                                  | Preparation for classes | Literature reading / analysis of source materials<br><i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>                                                                                                               | No                      |
| a03                                                                                  | Preparation for classes | Developing practical skills<br><i>activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)</i> | No                      |
| a04                                                                                  | Preparation for classes | Consulting materials complementary to those indicated in the syllabus<br><i>agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary for class participation</i>                                                              | Yes                     |
| a05                                                                                  | Preparation for classes | Production/preparation of tools, materials or documentation necessary for class participation<br><i>developing, preparing and assessing the usefulness of tools and materials (e.g. aids, scenarios, research tools, equipment, etc.) to be employed in class or as an aid when preparing for classes</i>       | Yes                     |

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: <https://usosweb.us.edu.pl>.