University of Silesia in Katowice

| 1. | Field of study | Pedagogy: Pre-School Education and Early School Education |
|---|---|---|
| 2. | Faculty | Faculty of Social Sciences |
| 3. | Academic year of entry | 2024/2025 (winter term) |
| 4. | Level of qualifications/degree | long-cycle studies |
| 5. | Degree profile | general academic |
| 6. | Mode of study | part-time |

| 7. | General information about the module | |
|---|---|---|
| Module name | | Metodyka edukacji matematycznej w edukacji wczesnoszkolnej (sem. 2) |
| Module code | | PPW_MET_EDMAT2 |
| Number of the ECTS credits | | 6 |
| Language of instruction | | Polish |
| Purpose and description of the content of education | | Moduł metodyki edukacji matematycznej obejmuje treści związane z wiedzą, umiejętnościami i kompetencjami niezbędnymi nauczycielowi do realizacji zadań związanych z edukacją matematyczną dziecka w wieku przedszkolnym oraz młodszym wieku szkolnym. Celem modułu jest uzyskanie wiedzy merytorycznej z zakresu edukacji matematycznej oraz wiedzy i umiejętności metodycznych, które umożliwią prowadzenie skutecznej edukacji matematycznej w przedszkolu i w klasach I-III. Efekty kształcenia pedagogicznego i nauczycielskiego będą realizowane w ramach wykładów i ćwiczeń, z wykorzystaniem pracy własnej studentów i śródrocznych praktyk specjalistycznych. |
| List of modules that must be completed before starting this module (if necessary) | | [PPW_MET_EDMAT1] Metodyka edukacji matematycznej w edukacji wczesnoszkolnej (sem. 1)<br>[PPW_POD_EDMAT] Podstawy edukacji matematycznej w klasach początkowych |

| 8. | Learning outcomes of the module | |
|---|---|---|

| Code | Description | Learning outcomes of the programme | Level of competenc (scale 1-5) |
|---|---|---|---|
| PPW_MET _EDMAT2_1 | Absolwent zna i rozumie metodykę wykonywania zadań – normy, procedury i dobre praktyki stosowane w wychowaniu przedszkolnym i edukacji wczesnoszkolnej; (E.3.W2, E.3.W3, E.3.W5, E.3.W6, E3.W8) | KN2_W10 | 5 |
| PPW_MET _EDMAT2_2 | Absolwent zna i rozumie różne rodzaje i funkcje oceniania; (E.3.W1, E.3.W4, E.3.W9) | KN2_W15 | 4 |
| PPW_MET _EDMAT2_3 | Absolwent zna i rozumie rolę innowacji pedagogicznych w obszarze wychowania przedszkolnego i edukacji wczesnoszkolnej, inspirujących do planowania i organizacji własnej pracy; (E.3.W7, E.3.W8, E.3.W10, E.3.W11, E.3.W12) | KN2_W12 | 3 |
| PPW_MET _EDMAT2_4 | Absolwent potrafi rozpoznawać potrzeby, możliwości i uzdolnienia dzieci lub uczniów oraz projektować i prowadzić działania pedagogiczne, a także planować, realizować i oceniać spersonalizowane programy kształcenia i wychowania; (E.3.U7) | KN2_U02 | 3 |
| PPW_MET _EDMAT2_5 | Absolwent potrafi dobierać, tworzyć, testować i modyfikować materiały, środki oraz metody adekwatnie do celów wychowania i kształcenia; (E.3.U1, E.3.U2, E.3.U3, E.3.U4, E.3.U5) | KN2_U04 | 4 |
| PPW_MET _EDMAT2_6 | Absolwent potrafi skutecznie wykorzystywać technologię informacyjno-komunikacyjną w realizacji zadań dydaktycznych; (E.3.U5) | KN2_U05 | 3 |

| PPW_MET _EDMAT2_7 | Absolwent potrafi wykorzystywać proces oceniania i udzielania informacji zwrotnych do stymulowania dzieci lub uczniów w ich pracy nad własnym rozwojem; (E.3.U6) | KN2_U11 | 3 |
|---|---|---|---|
| PPW_MET _EDMAT2_8 | Absolwent jest gotów do posługiwania się uniwersalnymi zasadami i normami etycznymi w działalności zawodowej, kierując się szacunkiem dla każdego człowieka; (E.3.K1, E.3.K2) | KN2_K01 | 3 |

## 9. Methods of conducting classes

| Code | Category | Name (description) |
|---|---|---|
| a01 | Lecture methods / expository methods | Formal lecture/ course-related lecture<br>*a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided* |
| a05 | Lecture methods / expository methods | Explanation/clarification<br>*explication involving the derivation of a predetermined theorem from other, already known ones, in the number of steps specified by the person teaching the course* |
| b03 | Problem-solving methods | Activating method – educational games<br>*learning content in the guise of a rule- and/or principle-based game; conducted in a deliberately arranged situation based on the description of relevant facts and processes; learners compete with one another within the framework of rules laid down by the academic teacher; varieties include simulation games – involving a simulation of real situations; decision games – based on the decision-making process and the recognition of the consequences of the decisions made (e.g., a decision tree); psychological games – increasing the emotional-volitional component of the participants' attitudes* |
| b04 | Problem-solving methods | Activating method – discussion / debate<br>*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* |
| c07 | Demonstration methods | Screen presentation<br>*a presentation of synthetic image content using computer graphics, e.g., a series of slides or other multimedia forms, usually accompanied by a commentary; typical components of a screen presentation include text organized into bulleted points, charts, images and animations, sometimes sound effects or music; a multimedia illustration of course content presented in the form of a projected image* |

## 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 |
|---|---|---|---|---|---|
| PPW_MET _EDMAT2_fns_1 | lecture | 10 | exam | PPW_MET_EDMAT2_1, PPW_MET_EDMAT2_2, PPW_MET_EDMAT2_3, PPW_MET_EDMAT2_4, PPW_MET_EDMAT2_5, PPW_MET_EDMAT2_6, PPW_MET_EDMAT2_7 | a01, a05 |
| PPW_MET _EDMAT2_fns_2 | practical classes | 20 | course work | PPW_MET_EDMAT2_5, PPW_MET_EDMAT2_6, | b03, b04, c07 |

| | | | PPW_MET_EDMAT2_7, PPW_MET_EDMAT2_8 | |

| 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>*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* | | No |
| a02 | Preparation for classes | Literature reading / analysis of source materials<br>*reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class* | | No |
| a03 | Preparation for classes | Developing practical skills<br>*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)* | | No |
| a05 | Preparation for classes | Production/preparation of tools, materials or documentation necessary for class participation<br>*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* | | Yes |
| b01 | Consulting the curriculum and the organization of classes | Getting acquainted with the syllabus content<br>*reading through the syllabus and getting acquainted with its content* | | No |
| c02 | Preparation for verification of learning outcomes | Studying the literature used in and the materials produced in class<br>*exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class* | | No |
| c03 | Preparation for verification of learning outcomes | Implementation of an individual or group assignment necessary for course/phase/ examination completion<br>*a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course* | | 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.