

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	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

7.	General information about the module	
Module name		Interactive board
Module code		W4-MT-S1-24-TMul
Number of the ECTS credits		1
Language of instruction		Polish
Purpose and description of the content of education		Celem modułu jest wyposażenie studenta w umiejętność sprawnego posługiwania się tablicą multimedialną z uwzględnieniem racjonalnego wykorzystania technologii i mediów cyfrowych. Student pozna specyfikę pracy z tablicą interaktywną i zaznajomi się z jej możliwościami. Zadaniem modułu jest również wskazanie najbardziej efektywnych sposobów wykorzystania tablicy multimedialnej.
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)	
TMul_1	Student zna kompetencje merytoryczne, dydaktyczne i wychowawcze nauczyciela, w tym potrzebę zawodowego rozwoju, także z wykorzystaniem technologii informacyjno – komunikacyjnej ,oraz dostosowywania sposobu komunikowania się do poziomu rozwoju uczniów i stymulowania aktywności poznawczej uczniów, w tym kreowania sytuacji dydaktycznych	KN.2023_W01	2	
		KN.2023_W03	2	
		KN.2023_W12	2	
TMul_2	Student rozumie sposoby organizowania przestrzeni klasy szkolnej, z uwzględnieniem doboru i wykorzystania zasobów edukacyjnych, w tym elektronicznych i obcojęzycznych, edukacyjnego zastosowania mediów i technologii informacyjno-komunikacyjnej	KN.2023_U02	2	
		KN.2023_U04	2	
		KN.2023_U14	2	
TMul_3	Student rozumie potrzebę wyszukiwania, adaptacji i tworzenia elektronicznych zasobów edukacyjnych i projektowania multimediiów	KN_I_U02	3	
		KN_I_U06	3	
TMul_4	Student jest gotów odpowiedzialnie i krytycznie wykorzystywać media cyfrowe oraz szanować prawa własności intelektualnej	KN.2023_KS01	3	
		KN.2023_KS03	3	
		KN.2023_KS06	3	
TMul_5	Student potrafi dobierać metody pracy klasy oraz środki dydaktyczne, w tym z zakresu technologii informacyjno-komunikacyjnej, aktywizujące uczniów i uwzględniające ich zróżnicowane potrzeby edukacyjne	KN.2023_U03	2	
		KN.2023_U06	2	
		KN.2023_U12	2	

TMul_6	Student jest gotów do twórczego poszukiwania najlepszych rozwiązań dydaktycznych sprzyjających postępom uczniów	KN.2023_KS04	2
TMul_7	Student potrafi kreować sytuacje dydaktyczne służące aktywności i rozwojowi zainteresowań uczniów oraz popularyzacji wiedzy	KN.2023_U06 KN.2023_U07 KN.2023_U13	2 2 2

9. Methods of conducting classes		
Code	Category	Name (description)
a03	Lecture methods / expository methods	Description <i>a description of objects, phenomena, processes or people; it involves specifying the structure and characteristic features of the object, phenomenon, or process being described; it is usually accompanied by a demonstration of the described object or by its models, drawings, tables, charts, etc.; a description may take the form of an explanation, classification, justification or comparison</i>
b04	Problem-solving methods	Activating method – discussion / debate <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>
c07	Demonstration methods	Screen presentation <i>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</i>
d01	Programmed learning methods	Working with a computer <i>e.g., Webquest; implementation of educational tasks using electronic and digital devices, computer programs and Internet applications; the academic teacher acts as a consultant; students' work is carried out step by step according to the plan laid own by the person teaching the course and following his instructions, and proceeds towards producing the indicated results within the set deadline</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
TMul_fs_01	workshop	15	course work	TMul_1, TMul_2, TMul_3, TMul_4, TMul_5, TMul_6, TMul_7	a03, b04, c07, d01

11. The student's work, apart from participation in classes, includes in particular:			
Code	Category	Name (description)	Is it part of the BUNA?
a02	Preparation for classes	Literature reading / analysis of source materials <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>	Yes
a03	Preparation for classes	Developing practical skills <i>activities involving the repetition, refinement and consolidation of practical skills, including those</i>	No

		<i>developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)</i>	
a05	Preparation for classes	Production/preparation of tools, materials or documentation necessary for class participation <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
c01	Preparation for verification of learning outcomes	Determining the stages of task implementation contributing to the verification of learning outcomes <i>devising a task implementation strategy embracing the division of content, the range of activities, implementation time and/or the method(s) of obtaining the necessary materials and tools, etc.</i>	Yes
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class <i>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</i>	Yes
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes <i>reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes</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>.