

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	full-time

7.	General information about the module	
Module name		Seminar 1
Module code		W4-MT-S2-25-Sem1
Number of the ECTS credits		2
Language of instruction		Polish
Purpose and description of the content of education		Tematykę Seminarium 1 określają prowadzący - specjaliści z różnych działów matematyki. Student, poprzez aktywne uczestnictwo w Seminarium 1, utrwała posiadaną wiedzę, poznaje elementy najnowszej literatury matematycznej, uczy się samodzielnie opracowywać zagadnienia ze współczesnej matematyki, prezentuje własne opracowania tekstu matematycznego i bierze aktywny udział w dyskusji nad poruszonymi zagadnieniami. Głównym celem Seminarium 1 jest doskonalenie umiejętności pracy studenta nad tekstem matematycznym i rozwijanie umiejętności aktywnego uczestnictwa studenta w dyskusji nad konkretnymi problemami badawczymi.
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)	
Sem1_1	dobrze rozumie rolę i znaczenie rozumowań matematycznych	K_U03	5	
Sem1_2	potrafi posługiwać się literaturą, także obcojęzyczną, w celu przygotowania referatu	K_U03 K_U09	5 5	
Sem1_3	umie na poziomie zaawansowanym stosować i przedstawiać w mowie i piśmie metody matematyki współczesnej	K_U03 K_U06 K_U09	5 4 5	
Sem1_4	zna ograniczenie własnej wiedzy i rozumie potrzebę jej poszerzania	K_K01	5	
Sem1_5	jest gotów do formułowania trafnych pytań celem pogłębienia zrozumienia nabytej wiedzy i poddania jej krytycznej ocenie	K_K02 K_K05	4 4	

9.	Methods of conducting classes		
Code	Category	Name (description)	
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>
b05	Problem-solving methods	Activating method – seminar / proseminar <i>a seminar method; usually an oral presentation of a previously studied/diagnosed problem delivered on a forum; it aims at provoking a discussion concerning the results of research work; a type of conference, course or training session modelled on seminar classes</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
Sem1_fs_1	seminar	30	course work	Sem1_1, Sem1_2, Sem1_3, Sem1_4, Sem1_5	b04, b05

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 <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 <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 <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 <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
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
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion <i>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</i>	No

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>.