

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.	Academic year for which the revised course structure applies	—

Specialization: Mathematical Methods in Computer Science

Programme modules										year 1						year 2						year 3								
										form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E					
1	Elementary algebra I	PL	C	30		30	2		30	2																				
2	Elementary analysis I	PL	C	30		30	2		30	2																				
3	Elements of Programming	PL	C	45		45	3		45	3																				
4	Elements of school logic	PL	C	30		30	2		30	2																				
5	Introduction to Algebra and Number Theory	PL	C	60	30	30	5	30	30	5																				
6	Introduction to Mathematical Analysis	PL	E	120	60	60	11	60	60	11																				
7	Introduction to Mathematics	PL	E	60	30	30	5	30	30	5																				
8	Elementary algebra II	PL	C	15		15	1					15	1																	
9	Elementary analysis II	PL	C	15		15	1					15	1																	
10	Elements of Discrete Mathematics A	PL	E	30	15	15	3				15	15	3																	
11	Linear Algebra A	PL	E	60	30	30	5				30	30	5																	
12	Mathematical Analysis I A	PL	E	120	60	60	11				60	60	11																	
13	Computer tools for mathematics	PL	C	30		30	2								30	2														
14	Geometry A	PL	E	60	30	30	5							30	30	5														
15	Mathematical Analysis II A	PL	E	135	60	75	12							60	75	12														
16	Algebra A	PL	E	60	30	30	5										30	30	5											
17	Elementary probability theory I	PL	C	30		30	2											30	2											
18	Introduction to Differential Equations A	PL	E	60	30	30	5										30	30	5											
19	Introduction to Probability Theory A	PL	E	60	30	30	5										30	30	5											
20	Editing mathematical texts	PL	C	15		15	2														15	2								
21	Elementary probability theory II	PL	C	15		15	1														15	1								
22	Elements of Statistics	PL	E	60	30	30	5														30	30	5							
23	Introduction to Computational Mathematics A	PL	E	60	30	30	5														30	30	5							
24	Probability Theory A	PL	E	60	30	30	5														30	30	5							
25	Proseminar	PL	C	15		15	1														15	1								
26	Diploma Seminar	PL	C	30		30	4																30	4						
27	English for mathematics	EN	C	15		15	1																15	1						
28	Monograph Course	EN	E	60	30	30	5																30	30	5					
29	Topology A	PL	E	60	30	30	5																30	30	5					
TOTAL Programme modules:				1440	555	885	121	120	255	30	105	135	21	90	135	19	90	120	17	90	135	19	60	105	15					

Moduły specjalnościowe											year 1						year 2						year 3					
								form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Specialized Module	PL	E	300	150	150	25										30	30	5	30	30	5	30	30	5	30	30	5
2	Specialized Workshops	PL	C	45		45	3																	45	3			
3	Team Project	PL	C	30		30	2																			30	2	
TOTAL Moduły specjalnościowe:				375	150	225	30	0	0	0	0	0	0	30	30	5	30	30	5	30	75	8	60	90	12			
Programme co-related modules											year 1						year 2						year 3					
								form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3						30	3														
2	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3						30	3														
3	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3								30	3												
4	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3												30	3								
5	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3												30	3								
TOTAL Programme co-related modules:				150	0	150	15	0	0	0	0	60	6	0	30	3	0	60	6	0	0	0	0	0	0	0	0	0
Open access modules											year 1						year 2						year 3					
								form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Physical education	–	C	60		60	0						30				30											
2	English language course 1	EN	C	30		30	3						30	3														
3	English language course 2	EN	C	30		30	3								30	3												
4	English language course 3	EN	C	30		30	3												30	3								
5	English language course 4	EN	C	30		30	3														30	3						
6	Open University Module	–	C	30		30	3																		30	3		
TOTAL Open access modules:				210	0	210	15	0	0	0	0	60	3	0	60	3	0	30	3	0	30	3	0	30	3	0	30	3
TOTAL:				2175	705	1470	181	375	30	360	30	375	30	360	31	360	30	345	30									
TOTAL EXCLUDING INTERNSHIPS								2175																				
TOTAL								2175																				

The study ends with the awarding of a Bachelor's Degree in the field of Mathematics: Mathematical Methods in Computer Science.

* Groups of modules

Group of programme co-related modules:

Description:									
A student selects module from area "Civil Society and Entrepreneurship: Entrepreneurship".									
Modules:									
The area of "Civil Society and Entrepreneurship: Entrepreneurship"									
							Lang.	E/C	ECTS
							–	C	30
									3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects module from area of "Civil Society and Entrepreneurship: Vade mecum on Law".					
Modules:	Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Vade mecum on Law"	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Legend

Each semester consists of 15 weeks

E/C - exam/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

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.	Academic year for which the revised course structure applies	—

Specialization: Mathematics for Finance and Economics

Programme modules										year 1						year 2						year 3					
										semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	form of teaching			Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
				Total	L	O																					
1	Elementary algebra I	PL	C	30		30	2		30	2																	
2	Elementary analysis I	PL	C	30		30	2		30	2																	
3	Elements of Programming	PL	C	45		45	3		45	3																	
4	Elements of school logic	PL	C	30		30	2		30	2																	
5	Introduction to Algebra and Number Theory	PL	C	60	30	30	5	30	30	5																	
6	Introduction to Mathematical Analysis	PL	E	120	60	60	11	60	60	11																	
7	Introduction to Mathematics	PL	E	60	30	30	5	30	30	5																	
8	Elementary algebra II	PL	C	15		15	1					15	1														
9	Elementary analysis II	PL	C	15		15	1					15	1														
10	Elements of Discrete Mathematics A	PL	E	30	15	15	3				15	15	3														
11	Linear Algebra A	PL	E	60	30	30	5				30	30	5														
12	Mathematical Analysis I A	PL	E	120	60	60	11				60	60	11														
13	Computer tools for mathematics	PL	C	30		30	2								30	2											
14	Geometry A	PL	E	60	30	30	5							30	30	5											
15	Mathematical Analysis II A	PL	E	135	60	75	12							60	75	12											
16	Algebra A	PL	E	60	30	30	5										30	30	5								
17	Elementary probability theory I	PL	C	30		30	2											30	2								
18	Introduction to Differential Equations A	PL	E	60	30	30	5										30	30	5								
19	Introduction to Probability Theory A	PL	E	60	30	30	5										30	30	5								
20	Editing mathematical texts	PL	C	15		15	2														15	2					
21	Elementary probability theory II	PL	C	15		15	1														15	1					
22	Elements of Statistics	PL	E	60	30	30	5														30	30	5				
23	Introduction to Computational Mathematics A	PL	E	60	30	30	5														30	30	5				
24	Probability Theory A	PL	E	60	30	30	5														30	30	5				
25	Proseminar	PL	C	15		15	1														15	1					
26	Diploma Seminar	PL	C	30		30	4																30	4			
27	English for mathematics	EN	C	15		15	1																15	1			
28	Monograph Course	EN	E	60	30	30	5																30	30	5		
29	Topology A	PL	E	60	30	30	5																30	30	5		
TOTAL Programme modules:				1440	555	885	121	120	255	30	105	135	21	90	135	19	90	120	17	90	135	19	60	105	15		

Moduły specjalnościowe										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Specialized Module	PL	E	300	150	150	25							30	30	5	30	30	5	30	30	5	60	60	10		
2	Specialized Workshops	PL	C	45		45	3														45	3					
3	Team Project	PL	C	30		30	2																30	2			
TOTAL Moduły specjalnościowe:				375	150	225	30	0	0	0	0	0	0	30	30	5	30	30	5	30	75	8	60	90	12		
Programme co-related modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3					30	3														
2	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3					30	3														
3	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3							30	3												
4	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3									30	3										
5	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3									30	3										
TOTAL Programme co-related modules:				150	0	150	15	0	0	0	0	60	6	0	30	3	0	60	6	0	0	0	0	0	0		
Open access modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Physical education	–	C	60		60	0					30			30												
2	English language course 1	EN	C	30		30	3					30	3														
3	English language course 2	EN	C	30		30	3								30	3											
4	English language course 3	EN	C	30		30	3										30	3									
5	English language course 4	EN	C	30		30	3													30	3						
6	Open University Module	–	C	30		30	3																30	3			
TOTAL Open access modules:				210	0	210	15	0	0	0	0	60	3	0	60	3	0	30	3	0	30	3	0	30	3		
TOTAL:				2175	705	1470	181	375	30	360	30	375	30	360	31	360	30	345	30								
TOTAL EXCLUDING INTERNSHIPS								2175																			
TOTAL								2175																			

The study ends with the awarding of a Bachelor's Degree in the field of Mathematics: Mathematics for Finance and Economics.

* Groups of modules

Group of programme co-related modules:

Description:									
A student selects module from area "Civil Society and Entrepreneurship: Entrepreneurship".									
Modules:									
The area of "Civil Society and Entrepreneurship: Entrepreneurship"									
			Lang.	E/C	L	O	ECTS		
			–	C		30	3		

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects module from area of "Civil Society and Entrepreneurship: Vade mecum on Law".					
Modules:	Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Vade mecum on Law"	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Legend

Each semester consists of 15 weeks

E/C - exam/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

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5.	Degree profile	general academic
6.	Mode of study	full-time
7.	Academic year for which the revised course structure applies	—

Specialization: Mathematical Modelling

Programme modules										year 1						year 2						year 3						
										semester 1			semester 2			semester 3			semester 4			semester 5			semester 6			
No.	Module	Lang.	E/C	form of teaching			Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
				Total	L	O																						
1	Elementary algebra I	PL	C	30		30	2		30	2																		
2	Elementary analysis I	PL	C	30		30	2		30	2																		
3	Elements of Programming	PL	C	45		45	3		45	3																		
4	Elements of school logic	PL	C	30		30	2		30	2																		
5	Introduction to Algebra and Number Theory	PL	C	60	30	30	5	30	30	5																		
6	Introduction to Mathematical Analysis	PL	E	120	60	60	11	60	60	11																		
7	Introduction to Mathematics	PL	E	60	30	30	5	30	30	5																		
8	Elementary algebra II	PL	C	15		15	1					15	1															
9	Elementary analysis II	PL	C	15		15	1					15	1															
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11	Linear Algebra A	PL	E	60	30	30	5					30	30	5														
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14	Geometry A	PL	E	60	30	30	5								30	30	5											
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23	Introduction to Computational Mathematics A	PL	E	60	30	30	5														30	30	5					
24	Probability Theory A	PL	E	60	30	30	5														30	30	5					
25	Proseminar	PL	C	15		15	1														15	1						
26	Diploma Seminar	PL	C	30		30	4																30	4				
27	English for mathematics	EN	C	15		15	1																15	1				
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29	Topology A	PL	E	60	30	30	5																30	30	5			
TOTAL Programme modules:				1440	555	885	121	120	255	30	105	135	21	90	135	19	90	135	19	90	120	17	90	135	19	60	105	15

Moduły specjalnościowe											year 1						year 2						year 3								
											form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	Specialized Module	PL	E	300	150	150	25										30	30	5	30	30	5	30	30	5	30	30	5	60	60	10
2	Specialized Workshops	PL	C	45		45	3																	45	3						
3	Team Project	PL	C	30		30	2																					30	2		
TOTAL Moduły specjalnościowe:				375	150	225	30	0	0	0	0	0	0	30	30	5	30	30	5	30	75	8	60	90	12						
Programme co-related modules											year 1						year 2						year 3								
											form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3						30	3																	
2	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3						30	3																	
3	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3								30	3															
4	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3												30	3											
5	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3												30	3											
TOTAL Programme co-related modules:				150	0	150	15	0	0	0	0	60	6	0	30	3	0	60	6	0	0	0	0	0	0	0	0	0	0		
Open access modules											year 1						year 2						year 3								
											form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	Physical education	–	C	60		60	0						30				30														
2	English language course 1	EN	C	30		30	3						30	3																	
3	English language course 2	EN	C	30		30	3								30	3															
4	English language course 3	EN	C	30		30	3												30	3											
5	English language course 4	EN	C	30		30	3														30	3									
6	Open University Module	–	C	30		30	3																			30	3				
TOTAL Open access modules:				210	0	210	15	0	0	0	0	60	3	0	60	3	0	30	3	0	30	3	0	30	3	0	30	3			
TOTAL:				2175	705	1470	181	375	30	360	30	375	30	360	31	360	30	345	30												
TOTAL EXCLUDING INTERNSHIPS								2175																							
TOTAL								2175																							

The study ends with the awarding of a Bachelor's Degree in the field of Mathematics: Mathematical Modelling.

* Groups of modules

Group of programme co-related modules:

Description:						
A student selects module from area "Civil Society and Entrepreneurship: Entrepreneurship".						
Modules:						
The area of "Civil Society and Entrepreneurship: Entrepreneurship"						
	Lang.	E/C	L	O	ECTS	
	–	C		30	3	

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects module from area of "Civil Society and Entrepreneurship: Vade mecum on Law".					
Modules:	Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Vade mecum on Law"	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Legend

Each semester consists of 15 weeks

E/C - exam/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

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.	Academic year for which the revised course structure applies	—

Specialization: Teacher Training Programme with Chemistry

Programme modules										year 1						year 2						year 3								
										form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E					
1	Elementary algebra I	PL	C	30		30	2		30	2																				
2	Elementary analysis I	PL	C	30		30	2		30	2																				
3	Elements of Programming	PL	C	45		45	3		45	3																				
4	Elements of school logic	PL	C	30		30	2		30	2																				
5	Introduction to Algebra and Number Theory	PL	C	60	30	30	5	30	30	5																				
6	Introduction to Mathematical Analysis	PL	E	120	60	60	11	60	60	11																				
7	Introduction to Mathematics	PL	E	60	30	30	5	30	30	5																				
8	Combinatorics	PL	C	30	15	15	3				15	15	3																	
9	Elementary algebra II	PL	C	15		15	1					15	1																	
10	Elementary analysis II	PL	C	15		15	1					15	1																	
11	Linear Algebra	PL	E	60	30	30	5				30	30	5																	
12	Mathematical Analysis I	PL	E	120	60	60	10				60	60	10																	
13	Editing mathematical texts	PL	C	15		15	2								15	2														
14	Mathematical Analysis II	PL	E	120	60	60	10							60	60	10														
15	School geometry	PL	C	30	15	15	2							15	15	2														
16	Introduction to Differential Equations	PL	E	60	30	30	5										30	30	5											
17	Algebra	PL	E	60	30	30	5													30	30	5								
18	Elementary probability theory	PL	C	15		15	1														15	1								
19	Probability Theory	PL	E	45	30	15	4													30	15	4								
20	Proseminar	PL	C	15		15	1														15	1								
21	Diploma Seminar	PL	C	30		30	4																30	4						
22	Elements of General Topology	PL	E	45	15	30	4																15	30	4					
23	English for mathematics	EN	C	15		15	1																	15	1					
24	Introduction to statistics	PL	E	60	30	30	5																30	30	5					
TOTAL Programme modules:				1125	435	690	94	120	255	30	105	135	20	75	90	14	30	30	5	60	75	11	45	105	14					

Modules preparing for the teaching profession (organised at the university level)											year 1						year 2						year 3					
											form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	Kształcenie Nauczycielskie: Pedagogika 1	PL	C	45	15	30	3				15	30	3															

Modules preparing for the teaching profession (organised at the university level)

							form of teaching																				
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
2	Kształcenie Nauczycielskie: Psychologia 1	PL	C	45	15	30	3				15	30	3														
3	Kształcenie Nauczycielskie: Podstawy Dydaktyki	–	C	30	15	15	2							15	15	2											
4	Kształcenie Nauczycielskie: Praktyka zawodowa psychologiczno-pedagogiczna	PL	C	30		30	2								30	2											
5	Kształcenie Nauczycielskie: Warsztaty pedagogiczne 1	PL	C	15		15	1								15	1											
6	Kształcenie Nauczycielskie: Warsztaty psychologiczne 1	PL	C	15		15	1								15	1											
7	Kształcenie Nauczycielskie: Emisja głosu	PL	C	30		30	2											30	2								
8	Kształcenie Nauczycielskie: Pierwsza pomoc przedmedyczna	PL	C	15		15	1												15	1							
TOTAL Modules preparing for the teaching profession (organised at the university level):				225	45	180	15	0	0	0	30	60	6	15	75	6	0	45	3	0	0	0	0	0	0		

Modules preparing for the teaching profession (organized at the programme level)

							form of teaching						semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Interactive board	PL	C	15		15	1					15	1																	
2	GeoGebra	PL	C	15		15	1								15	1														
3	Preparation for Work in Primary School	PL	C	30		30	2								30	2														
4	Assessment and diagnosis in primary education	PL	C	15		15	1											15	1											
5	Didactics of Chemistry I	PL	C	45	30	15	3										30	15	3											
6	Didactics of Mathematics I	PL	C	30		30	2											30	2											
7	Education Practicum from Mathematics in Primary School I	PL	C	60		60	3											60	3											
8	Teaching methodology I	PL	C	30		30	2											30	2											
9	Didactics of Chemistry II	PL	C	15		15	1														15	1								
10	Didactics of Mathematics II	PL	C	30		30	2												30	2										
11	Education Practicum from Chemistry in Primary School, Tutoring I	PL	C	32		32	2												32	2										
12	Education Practicum from Mathematics in Primary School II	PL	C	60		60	3												60	3										
13	Language Culture	PL	C	30		30	3												30	3										
14	Teaching methodology II	PL	C	30		30	2												30	2										
15	Didactics of Mathematics III	PL	C	30		30	2																			30	2			
16	Education Practicum from Chemistry in Primary School, Tutoring II	PL	C	31		31	2																			31	2			
TOTAL Modules preparing for the teaching profession (organized at the programme level):				498	30	468	32	0	0	0	0	15	1	0	45	3	30	150	11	0	197	13	0	61	4					

Moduły przygotowujące merytorycznie do nauczania drugiego przedmiotu

							form of teaching						semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	General Chemistry I	PL	C	60		60	3								60	3														
2	Organic Chemistry I	PL	C	35		35	2								35	2														
3	General Chemistry II	PL	C	30		30	2																							
4	ICT in chemistry teaching	PL	C	20		20	1														20	1								
5	Inorganic Chemistry	PL	C	30	15	15	2											15	15	2										
6	Inorganic Chemistry II	PL	C	30		30	2																				30	2		
7	Organic Chemistry II	PL	E	50	15	35	4																			15	35	4		
TOTAL Moduły przygotowujące merytorycznie do nauczania drugiego przedmiotu:				255	30	225	16	0	0	0	0	0	0	0	95	5	15	65	5	0	0	0	15	65	6					

Programme co-related modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3														30	3					
2	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3														30	3					
TOTAL Programme co-related modules:				60	0	60	6	0	0	0	0	0	0	0	0	0	0	0	30	3	0	30	3	0	0	0	
Open access modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Physical education	–	C	60		60	0					30			30												
2	English language course 1	EN	C	30		30	3					30	3														
3	English language course 2	EN	C	30		30	3								30	3											
4	English language course 3	EN	C	30		30	3											30	3								
5	English language course 4	EN	C	30		30	3														30	3					
6	Open University Module	–	C	30		30	3																30	3			
TOTAL Open access modules:				210	0	210	15	0	0	0	0	60	3	0	60	3	0	30	3	0	30	3	0	30	3		
Internship										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Continuous Education Practicum from Chemistry in Primary School	PL	C	15		15	1																	15	1		
2	Continuous Education Practicum from Mathematics in Primary School	PL	C	40		40	2																	40	2		
TOTAL Internship:				55	0	55	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	3		
TOTAL:				2428	540	1888	181	375	30	405	30	455	31	425	30	392	30	376	30								
TOTAL EXCLUDING INTERNSHIPS								2343																			
TOTAL								2428																			

The study ends with the awarding of a Bachelor's Degree in the field of Mathematics: Teacher Training Programme with Chemistry.

* Groups of modules

Group of programme co-related modules:

Description:									
A student selects module from area "Civil Society and Entrepreneurship: Entrepreneurship".									
Modules:					Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Entrepreneurship"					–	C		30	3

Group of programme co-related modules:

Description:									
A student selects module from area of "Civil Society and Entrepreneurship: Vade mecum on Law".									
Modules:					Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Vade mecum on Law"					–	C		30	3

Legend

Each semester consists of 15 weeks

E/C - exam/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

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.	Academic year for which the revised course structure applies	—

Specialization: Teacher Training Programme with Physics

Programme modules										year 1						year 2						year 3					
										semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	form of teaching			Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6				
				Total	L	O		L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Elementary algebra I	PL	C	30		30	2		30	2																	
2	Elementary analysis I	PL	C	30		30	2		30	2																	
3	Elements of Programming	PL	C	45		45	3		45	3																	
4	Elements of school logic	PL	C	30		30	2		30	2																	
5	Introduction to Algebra and Number Theory	PL	C	60	30	30	5	30	30	5																	
6	Introduction to Mathematical Analysis	PL	E	120	60	60	11	60	60	11																	
7	Introduction to Mathematics	PL	E	60	30	30	5	30	30	5																	
8	Combinatorics	PL	C	30	15	15	3				15	15	3														
9	Elementary algebra II	PL	C	15		15	1					15	1														
10	Elementary analysis II	PL	C	15		15	1					15	1														
11	Linear Algebra	PL	E	60	30	30	5				30	30	5														
12	Mathematical Analysis I	PL	E	120	60	60	10				60	60	10														
13	Editing mathematical texts	PL	C	15		15	2								15	2											
14	Mathematical Analysis II	PL	E	120	60	60	10							60	60	10											
15	School geometry	PL	C	30	15	15	2							15	15	2											
16	Introduction to Differential Equations	PL	E	60	30	30	5										30	30	5								
17	Algebra	PL	E	60	30	30	5													30	30	5					
18	Elementary probability theory	PL	C	15		15	1														15	1					
19	Probability Theory	PL	E	45	30	15	4													30	15	4					
20	Proseminar	PL	C	15		15	1														15	1					
21	Diploma Seminar	PL	C	30		30	4																30	4			
22	Elements of General Topology	PL	E	45	15	30	4																15	30	4		
23	English for mathematics	EN	C	15		15	1																	15	1		
24	Introduction to statistics	PL	E	60	30	30	5																30	30	5		
TOTAL Programme modules:				1125	435	690	94	120	255	30	105	135	20	75	90	14	30	30	5	60	75	11	45	105	14		
Modules preparing for the teaching profession (organised at the university level)										year 1						year 2						year 3					
										semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	form of teaching			Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6				
				Total	L	O		L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Kształcenie Nauczycielskie: Pedagogika 1	PL	C	45	15	30	3				15	30	3														

Modules preparing for the teaching profession (organised at the university level)

							form of teaching																				
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
2	Kształcenie Nauczycielskie: Psychologia 1	PL	C	45	15	30	3				15	30	3														
3	Kształcenie Nauczycielskie: Podstawy Dydaktyki	–	C	30	15	15	2							15	15	2											
4	Kształcenie Nauczycielskie: Praktyka zawodowa psychologiczno-pedagogiczna	PL	C	30		30	2								30	2											
5	Kształcenie Nauczycielskie: Warsztaty pedagogiczne 1	PL	C	15		15	1								15	1											
6	Kształcenie Nauczycielskie: Warsztaty psychologiczne 1	PL	C	15		15	1								15	1											
7	Kształcenie Nauczycielskie: Emisja głosu	PL	C	30		30	2											30	2								
8	Kształcenie Nauczycielskie: Pierwsza pomoc przedmedyczna	PL	C	15		15	1												15	1							
TOTAL Modules preparing for the teaching profession (organised at the university level):				225	45	180	15	0	0	0	30	60	6	15	75	6	0	45	3	0	0	0	0	0	0		

Modules preparing for the teaching profession (organized at the programme level)

							form of teaching						semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Interactive board	PL	C	15		15	1					15	1																	
2	GeoGebra	PL	C	15		15	1									15	1													
3	Preparation for Work in Primary School	PL	C	30		30	2									30	2													
4	Assessment and diagnosis in primary education	PL	C	15		15	1												15	1										
5	Didactics of Mathematics I	PL	C	30		30	2												30	2										
6	Education Practicum from Mathematics in Primary School I	PL	C	60		60	3												60	3										
7	Physics didactics I - Primary School	PL	C	45		45	3												45	3										
8	Teaching methodology I	PL	C	30		30	2												30	2										
9	Didactics of Mathematics II	PL	C	30		30	2																	30	2					
10	Education Practicum from Mathematics in Primary School II	PL	C	60		60	3													60	3									
11	Education Practicum from Physics in Primary School, Tutoring I	PL	C	32		32	2													32	2									
12	Language Culture	PL	C	30		30	3													30	3									
13	Physics didactics II - Primary School	PL	C	15		15	1													15	1									
14	Teaching methodology II	PL	C	30		30	2													30	2									
15	Didactics of Mathematics III	PL	C	30		30	2																			30	2			
16	Education Practicum from Physics in Primary School, Tutoring II	PL	C	31		31	2																				31	2		
TOTAL Modules preparing for the teaching profession (organized at the programme level):				498	0	498	32	0	0	0	0	15	1	0	45	3	0	180	11	0	197	13	0	61	4					

Moduły przygotowujące merytorycznie do nauczania drugiego przedmiotu

							form of teaching						semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Fundamentals of Physics I - Mechanics	PL	C	45		45	3									45	3													
2	Fundamentals of Physics II - Electricity and Magnetism	PL	C	40		40	2									40	2													
3	Fundamentals of Physics III - Thermodynamics	PL	C	30		30	2												30	2										
4	ICT in physics teaching	PL	C	15		15	1											15	1											
5	Physics lab I, part 1	PL	C	20		20	1											20	1											
6	Statistical methods of results processing	PL	C	15		15	1											15	1											
7	Elements of the Structure of matter	PL	C	20		20	1																				20	1		
8	Fundamentals of Physics IV - Waves and Optics	PL	C	45		45	3																				45	3		
9	Physics lab I, part 2	PL	C	30		30	2																				30	2		
TOTAL Moduły przygotowujące merytorycznie do nauczania drugiego przedmiotu:				260	0	260	16	0	0	0	0	0	0	0	85	5	0	80	5	0	0	0	0	95	6					

Programme co-related modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3														30	3					
2	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3														30	3					
TOTAL Programme co-related modules:				60	0	60	6	0	0	0	0	0	0	0	0	0	0	0	30	3	0	30	3	0	0	0	
Open access modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Physical education	–	C	60		60	0					30			30												
2	English language course 1	EN	C	30		30	3					30	3														
3	English language course 2	EN	C	30		30	3								30	3											
4	English language course 3	EN	C	30		30	3											30	3								
5	English language course 4	EN	C	30		30	3														30	3					
6	Open University Module	–	C	30		30	3																30	3			
TOTAL Open access modules:				210	0	210	15	0	0	0	0	60	3	0	60	3	0	30	3	0	30	3	0	30	3		
Internship										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Continuous Education Practicum from Mathematics in Primary School	PL	C	40		40	2																	40	2		
2	Continuous Education Practicum from Physics in Primary School	PL	C	15		15	1																	15	1		
TOTAL Internship:				55	0	55	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	3		
TOTAL:				2433	480	1953	181	375	30	405	30	445	31	425	30	392	30	391	30								
TOTAL EXCLUDING INTERNSHIPS								2348																			
TOTAL								2433																			

The study ends with the awarding of a Bachelor's Degree in the field of Mathematics: Teacher Training Programme with Physics.

* Groups of modules

Group of programme co-related modules:

Description:																								
A student selects module from area "Civil Society and Entrepreneurship: Entrepreneurship".																								
Modules:																				Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Entrepreneurship"																				–	C		30	3

Group of programme co-related modules:

Description:																								
A student selects module from area of "Civil Society and Entrepreneurship: Vade mecum on Law".																								
Modules:																				Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Vade mecum on Law"																				–	C		30	3

Legend

Each semester consists of 15 weeks

E/C - exam/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

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.	Academic year for which the revised course structure applies	—

Specialization: Teaching Specialty - Teaching of Mathematics and Computer Science

Programme modules										year 1						year 2						year 3								
										form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E					
1	Elementary algebra I	PL	C	30		30	2		30	2																				
2	Elementary analysis I	PL	C	30		30	2		30	2																				
3	Elements of Programming	PL	C	45		45	3		45	3																				
4	Elements of school logic	PL	C	30		30	2		30	2																				
5	Introduction to Algebra and Number Theory	PL	C	60	30	30	5	30	30	5																				
6	Introduction to Mathematical Analysis	PL	E	120	60	60	11	60	60	11																				
7	Introduction to Mathematics	PL	E	60	30	30	5	30	30	5																				
8	Combinatorics	PL	C	30	15	15	3				15	15	3																	
9	Elementary algebra II	PL	C	15		15	1					15	1																	
10	Elementary analysis II	PL	C	15		15	1					15	1																	
11	Linear Algebra	PL	E	60	30	30	5				30	30	5																	
12	Mathematical Analysis I	PL	E	120	60	60	10				60	60	10																	
13	Editing mathematical texts	PL	C	15		15	2								15	2														
14	Mathematical Analysis II	PL	E	120	60	60	10							60	60	10														
15	School geometry	PL	C	30	15	15	2							15	15	2														
16	Introduction to Differential Equations	PL	E	60	30	30	5										30	30	5											
17	Algebra	PL	E	60	30	30	5													30	30	5								
18	Elementary probability theory	PL	C	15		15	1														15	1								
19	Probability Theory	PL	E	45	30	15	4													30	15	4								
20	Proseminar	PL	C	15		15	1														15	1								
21	Diploma Seminar	PL	C	30		30	4																30	4						
22	Elements of General Topology	PL	E	45	15	30	4																15	30	4					
23	English for mathematics	EN	C	15		15	1																	15	1					
24	Introduction to statistics	PL	E	60	30	30	5																30	30	5					
TOTAL Programme modules:				1125	435	690	94	120	255	30	105	135	20	75	90	14	30	30	5	60	75	11	45	105	14					

Modules preparing for the teaching profession (organised at the university level)

No.	Module	Lang.	E/C	form of teaching			Total ECTS	year 1			year 2			year 3		
				Total	L	O		semester 1	semester 2	semester 3	semester 4	semester 5	semester 6	semester 5	semester 6	semester 6
				Total	L	O		L	O	E	L	O	E	L	O	E
1	Kształcenie Nauczycielskie: Pedagogika 1	PL	C	45	15	30	3				15	30	3			

Modules preparing for the teaching profession (organised at the university level)											year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6			
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
2	Kształcenie Nauczycielskie: Psychologia 1	PL	C	45	15	30	3				15	30	3															
3	Kształcenie Nauczycielskie: Podstawy Dydaktyki	–	C	30	15	15	2							15	15	2												
4	Kształcenie Nauczycielskie: Praktyka zawodowa psychologiczno-pedagogiczna	PL	C	30		30	2								30	2												
5	Kształcenie Nauczycielskie: Warsztaty pedagogiczne 1	PL	C	15		15	1								15	1												
6	Kształcenie Nauczycielskie: Warsztaty psychologiczne 1	PL	C	15		15	1								15	1												
7	Kształcenie Nauczycielskie: Emisja głosu	PL	C	30		30	2											30	2									
8	Kształcenie Nauczycielskie: Pierwsza pomoc przedmedyczna	PL	C	15		15	1											15	1									
TOTAL Modules preparing for the teaching profession (organised at the university level):				225	45	180	15	0	0	0	30	60	6	15	75	6	0	45	3	0	0	0	0	0	0			

Modules preparing for the teaching profession (organized at the programme level)											year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6			
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	Interactive board	PL	C	15		15	1					15	1															
2	GeoGebra	PL	C	15		15	1								15	1												
3	Preparation for Work in Primary School	PL	C	30		30	2								30	2												
4	Assessment and diagnosis in primary education	PL	C	15		15	1										15	1										
5	Didactics of Computer Science I	PL	C	45	30	15	3										30	15	3									
6	Didactics of Mathematics I	PL	C	30		30	2											30	2									
7	Education Practicum from Mathematics in Primary School I	PL	C	60		60	3											60	3									
8	Teaching methodology I	PL	C	30		30	2											30	2									
9	Didactics of Computer Science II	PL	C	15		15	1														15	1						
10	Didactics of Mathematics II	PL	C	30		30	2														30	2						
11	Education Practicum from Computer Science in Primary School, Tutoring I	PL	C	32		32	2														32	2						
12	Education Practicum from Mathematics in Primary School II	PL	C	60		60	3														60	3						
13	Language Culture	PL	C	30		30	3														30	3						
14	Teaching methodology II	PL	C	30		30	2														30	2						
15	Didactics of Mathematics III	PL	C	30		30	2																	30	2			
16	Education Practicum from Computer Science in Primary School, Tutoring II	PL	C	31		31	2																	31	2			
TOTAL Modules preparing for the teaching profession (organized at the programme level):				498	30	468	32	0	0	0	0	15	1	0	45	3	30	150	11	0	197	13	0	61	4			

Moduły przygotowujące merytorycznie do nauczania drugiego przedmiotu											year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6			
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	IT at school	PL	C	45		45	3									45	3											
2	Multimedia	PL	C	30		30	2									30	2											
3	Algorithms and Programming	PL	E	60	25	35	5											25	35	5								
4	Advanced Programming	PL	C	45		45	3																	45	3			
5	Introduction to Operating Systems	PL	C	15		15	1																	15	1			
6	Robotics	PL	C	30		30	2																	30	2			
TOTAL Moduły przygotowujące merytorycznie do nauczania drugiego przedmiotu:				225	25	200	16	0	0	0	0	0	0	0	75	5	25	35	5	0	0	0	0	90	6			

Programme co-related modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3														30	3					
2	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3															30	3				
TOTAL Programme co-related modules:				60	0	60	6	0	0	0	0	0	0	0	0	0	0	0	30	3	0	30	3	0	0	0	
Open access modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Physical education	–	C	60		60	0					30			30												
2	English language course 1	EN	C	30		30	3					30	3														
3	English language course 2	EN	C	30		30	3								30	3											
4	English language course 3	EN	C	30		30	3											30	3								
5	English language course 4	EN	C	30		30	3														30	3					
6	Open University Module	–	C	30		30	3															30	3				
TOTAL Open access modules:				210	0	210	15	0	0	0	0	60	3	0	60	3	0	30	3	0	30	3	0	30	3		
Internship										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Continuous Education Practicum from Computer Science in Primary School	PL	C	15		15	1																	15	1		
2	Continuous Education Practicum from Mathematics in Primary School	PL	C	40		40	2																	40	2		
TOTAL Internship:				55	0	55	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	3		
TOTAL:				2398	535	1863	181	375	30	405	30	435	31	405	30	392	30	386	30								
TOTAL EXCLUDING INTERNSHIPS								2313																			
TOTAL								2398																			

The study ends with the awarding of a Bachelor's Degree in the field of Mathematics: Teaching Specialty - Teaching of Mathematics and Computer Science.

* Groups of modules

Group of programme co-related modules:

Description:									
A student selects module from area "Civil Society and Entrepreneurship: Entrepreneurship".									
Modules:					Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Entrepreneurship"					–	C		30	3

Group of programme co-related modules:

Description:									
A student selects module from area of "Civil Society and Entrepreneurship: Vade mecum on Law".									
Modules:					Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Vade mecum on Law"					–	C		30	3

Legend

Each semester consists of 15 weeks

E/C - exam/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

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.	Academic year for which the revised course structure applies	—

Specialization: Theoretical Mathematics

Programme modules										year 1						year 2						year 3					
										semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	form of teaching			Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
				Total	L	O																					
1	Elementary algebra I	PL	C	30		30	2		30	2																	
2	Elementary analysis I	PL	C	30		30	2		30	2																	
3	Elements of Programming	PL	C	45		45	3		45	3																	
4	Elements of school logic	PL	C	30		30	2		30	2																	
5	Introduction to Algebra and Number Theory	PL	C	60	30	30	5	30	30	5																	
6	Introduction to Mathematical Analysis	PL	E	120	60	60	11	60	60	11																	
7	Introduction to Mathematics	PL	E	60	30	30	5	30	30	5																	
8	Elementary algebra II	PL	C	15		15	1					15	1														
9	Elementary analysis II	PL	C	15		15	1					15	1														
10	Elements of Discrete Mathematics A	PL	E	30	15	15	3				15	15	3														
11	Linear Algebra A	PL	E	60	30	30	5				30	30	5														
12	Mathematical Analysis I A	PL	E	120	60	60	11				60	60	11														
13	Computer tools for mathematics	PL	C	30		30	2								30	2											
14	Geometry A	PL	E	60	30	30	5							30	30	5											
15	Mathematical Analysis II A	PL	E	135	60	75	12							60	75	12											
16	Algebra A	PL	E	60	30	30	5										30	30	5								
17	Elementary probability theory I	PL	C	30		30	2											30	2								
18	Introduction to Differential Equations A	PL	E	60	30	30	5										30	30	5								
19	Introduction to Probability Theory A	PL	E	60	30	30	5										30	30	5								
20	Editing mathematical texts	PL	C	15		15	2														15	2					
21	Elementary probability theory II	PL	C	15		15	1														15	1					
22	Elements of Statistics	PL	E	60	30	30	5														30	30	5				
23	Introduction to Computational Mathematics A	PL	E	60	30	30	5														30	30	5				
24	Probability Theory A	PL	E	60	30	30	5														30	30	5				
25	Proseminar	PL	C	15		15	1														15	1					
26	Diploma Seminar	PL	C	30		30	4																30	4			
27	English for mathematics	EN	C	15		15	1																15	1			
28	Monograph Course	EN	E	60	30	30	5																30	30	5		
29	Topology A	PL	E	60	30	30	5																30	30	5		
TOTAL Programme modules:				1440	555	885	121	120	255	30	105	135	21	90	135	19	90	120	17	90	135	19	60	105	15		

Moduły specjalnościowe										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Specialized Module	PL	E	300	150	150	25							30	30	5	30	30	5	30	30	5	60	60	10		
2	Specialized Workshops	PL	C	45		45	3														45	3					
3	Team Project	PL	C	30		30	2																30	2			
TOTAL Moduły specjalnościowe:				375	150	225	30	0	0	0	0	0	0	30	30	5	30	30	5	30	75	8	60	90	12		
Programme co-related modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3					30	3														
2	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3					30	3														
3	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3							30	3												
4	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3										30	3									
5	Group of programme co-related modules: <i>*[see description below]</i>	*	*	30		30	3											30	3								
TOTAL Programme co-related modules:				150	0	150	15	0	0	0	0	60	6	0	30	3	0	60	6	0	0	0	0	0	0		
Open access modules										year 1						year 2						year 3					
							form of teaching			semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Physical education	–	C	60		60	0					30			30												
2	English language course 1	EN	C	30		30	3					30	3														
3	English language course 2	EN	C	30		30	3							30	3												
4	English language course 3	EN	C	30		30	3										30	3									
5	English language course 4	EN	C	30		30	3													30	3						
6	Open University Module	–	C	30		30	3																30	3			
TOTAL Open access modules:				210	0	210	15	0	0	0	0	60	3	0	60	3	0	30	3	0	30	3	0	30	3		
TOTAL:				2175	705	1470	181	375	30	360	30	375	30	360	31	360	30	345	30								
TOTAL EXCLUDING INTERNSHIPS								2175																			
TOTAL								2175																			

The study ends with the awarding of a Bachelor's Degree in the field of Mathematics: Theoretical Mathematics.

* Groups of modules

Group of programme co-related modules:

Description:									
A student selects module from area "Civil Society and Entrepreneurship: Entrepreneurship".									
Modules:									
The area of "Civil Society and Entrepreneurship: Entrepreneurship"									
			Lang.	E/C	L	O	ECTS		
			–	C		30	3		

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects module from area of "Civil Society and Entrepreneurship: Vade mecum on Law".					
Modules:	Lang.	E/C	L	O	ECTS
The area of "Civil Society and Entrepreneurship: Vade mecum on Law"	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Group of programme co-related modules:

Description:					
A student selects one of the modules offered within indicated areas.					
Modules:	Lang.	E/C	L	O	ECTS
Module in the "Civil Society and Entrepreneurship" area	–	C		30	3
Module in the "Creative Expression and Critical Thinking" area	–	C		30	3
Module in the "Digital World" area	–	C		30	3
Module in the "Health and Personal Development" area	–	C		30	3
Module in the "Natural Environment and Technologies" area	–	C		30	3
Module in the "The Limits of Science" area	–	C		30	3

Legend

Each semester consists of 15 weeks

E/C - exam/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)