Appendix No. 1a to Resolution No 430 of the UZ Senate of March 30th, 2022

PLAN OF FULL-TIME STUDIES

Degree course: MATHEMATICS – first-cycle course

Course delivery method: full-time course

Recruitment in the academic year 2022/2023

Duration: 6 semesters

University of Zielona Góra

Faculty of Mathematics, Computer Science and Econometrics

No.		COURSE NAME	Hours per semester	ECTS	Form of assignment	SEMESTER 1 Form of classes L	C	Lab	P	S	Pra	Form of assignment	ECTS	SEMESTER 2 Form of classes L	C	Lab	P	S	Pra	Form of assignment	ECTS	SEMESTER 3 Form of classes L	C	Lab	P	S	Pra	Form of assignment	ECTS	SEMESTER 4 Form of classes L	C	Lab	P	S	Pra	Form of assignment	ECTS	SEMESTER 5 Form of classes L	C	Lab	P	S	Pra	Form of assignment	ECTS	SEMESTER 6 Form of classes L	C	Lab	P	S	Pra	Form of assignment	ECTS
1	Compulsory subjects module (general, basic and course)	English 1	30	2	O											30				O	2																														
2		English 2	30	2	O																			30				O	2																						
3		English 3	30	2	O																											30				O	2												
4		English 4	30	2	E																																			30					E	2					
5		Information Technology	30	2	O			30				O	2																																						
6		Physical Education 1	30	0	Z		30					Z	0																																						
7		Physical Education 2	30	0	Z										30					Z	0																														
8		Linear Algebra 1	90	6	EO	45	45					EO	6																																						
9		Linear Algebra 2	60	6	EO									30	30					EO	6																														
10		General Algebra	60	4	EO																	30	30					EO	4																				
11		Mathematical Analysis 1	120	10	EO	60	60					EO	10																																						
12		Mathematical Analysis 2	120	10	EO									60	60					EO	10																														
13		Mathematical Analysis 3	90	6	EO																	45	45					EO	6																				
14		Mathematical Analysis 4	60	4	EO																									30	30					EO	4												
15		Geometry	60	4	EO																	30	30					EO	4																				
16		Logic and Set Theory	60	6	EO	30	30					EO	6																																						
17		Computer Programming 1	60	6	EO	30		30				EO	6																																						
18		Computer Programming 2	60	6	EO									30		30				EO	6																														
19		Probability Theory	60	5	EO																	30	30					EO	5																				
20		Mathematical Statistics	75	6	EOO																									30	30	15				EOO	6												
21		Topology	60	6	EO																																										30	30				EO	6
22		Discrete Mathematics 1	60	6	EO									30	30					EO	6																														
23		Mathematical Software	30	2	O																																											30			O	2
24		Differential Equations	60	5	EO																									30	30					EO	5												
25		Diploma Seminar 1	30	3	O																																					30		O	3						
26		Diploma Seminar 2	60	7	Z																																										60		Z	7
1	Specialty - Mathematical Computer Science	Algorithms and Data Structures	60	5	EO																																	30		30				EO	5						
2		Discrete Mathematics 2	60	5	EO																									30	30					EO	5												
3		Boolean Methods in Computer Science	60	5	EO																																	30	30					EO	5						
4		Professional Internship	75	3	O																																					75		O	3						
5		Object-oriented Programming 1	60	6	OO																	30		30				OO	6																				
6		Database Systems 1	75	5	OOO																									30	15	30				OOO	5												
7		Database Systems 2	75	6	EOO																																	30	15	30				EOO	6						
8		Database Systems - Project 1	30	4	O																																			30				O	4						
9		Database Systems - Project 2	30	4	O																																										30			O	4
1	Specialty – Mathematics and Computer Science in Economics	Operations Research 1	60	3	OO																									30	30					OO	3												
2		Econometrics	90	8	EOO																																										30	30	30				EOO	8
3		Mathematical Economics	60	5	OO																									30	30					OO	5												
4		Introduction to Optimization	60	6	EO																																	30		30				EO	6						
5		Professional Internship	75	3	O																																					75		O	3						
6		Game Theory	60	5	EO																									30	30					EO	5												
7		Introduction to Mathematical Finance	60	6	OO																	30		30				OO	6																				
8		Introduction to Numerical Methods	60	7	EOO																																	30	15	15				EOO	7						
1	Specialty – Mathematics and Computer Science in Finance and Insurance	Operations Research 1	60	3	OO																									30	30					OO	3												
2		Operations Research 2	60	5	OO																																	30		30				OO	5						
3		Actuarial Methods	75	7	EO																																	30	45					EO	7						
4		Modelling in Finance	75	7	EO																																									30		45			EO	7
5		Introduction to Financial Engineering	60	7	EO																																	30	30					EO	7						
6		Professional Internship	75	3	O																																					75		O	3						
7		Game Theory	60	5	EO																									30	30					EO	5												
8		Introduction to Mathematical Finance	60	6	OO																	30		30				OO	6																				
1	Specialty - Mathematical Modelling	Time Series Modelling	75	5	OO																																									30		45			OO	5
2		Modelling in Finance	75	7	EO																																									30		45			EO	7
3		Introduction to Mathematical Modelling	60	4	OO																									30		30				OO	4												
4		Introduction to Optimization	60	6	EO																																	30		30				EO	6						
5		Professional Internship	75	3	O																																					75		O	3						
6		Game Theory	60	5	EO																									30	30					EO	5												
7		Introduction to Mathematical Finance	60	6	OO																	30		30				OO	6																				
8		Introduction to Numerical Methods	60	7	EOO																																	30	15	15				EOO	7						

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