

PLAN OF FULL-TIME STUDIES

Recruitment in the academic year 2023/2024

University of Zielona Góra

Degree course: **DATA ENGINEERING - second-cycle course**

Duration: 3 semesters

Faculty of Mathematics, Computer Science and Econometrics

Course delivery method: **full-time course**

No.	COURSE NAME	Hours per semester	ECTS	Form of assignment	SEMESTER 1							SEMESTER 2						SEMESTER 3														
					Form of classes						Form of assignment	ECTS	Form of classes						Form of assignment	ECTS												
					L	C	Lab	P	S	Pra			L	C	Lab	P	S	Pra			L	C	Lab	P	S	Pra						
1	English 1	30	2	O			30				O	2																				
2	English 2	30	2	E										30					E	2												
3	Operations Research and Decision Analysis	60	8	EOO	30	15		15			EOO	8																				
4	Data Security	60	6	EO	30		30				EO	6																				
5	Big Data - Models, Tools, Data Processing	60	7	EO									30		30				EO	7												
6	Representative Methods	60	7	EO	30		30				EO	7																				
7	Python for Data Analysts	30	4	OO	15		15				OO	4																				
8	Machine Learning	60	6	EO									30		30				EO	6												
9	Diploma Seminar 1	60	5	O													60		O	5												
10	Diploma Seminar 2	60	10	Z																						60		Z	10			
11	Monographic Lecture	30	3	O	30						O	3																				
1	Multidimensional Data Analysis	60	5	EO																	30		30					EO	5			
2	Text Analysis and Reporting	45	3	O																			45					O	3			
3	Methods and Tools for Data Processing	60	5	OO									30		30				OO	5												
4	Specialist Seminar 1	30	5	O													30		O	5												
5	Specialist Seminar 2	30	5	Z																					30		Z	5				
1	Data Warehouse	60	5	EO									30		30				EO	5												
2	Basics of Cloud Computing for WEB Application	60	5	OO																	30		30					OO	5			
3	Specialist Seminar 1	30	5	O													30		O	5												
4	Specialist Seminar 2	30	5	Z																					30		Z	5				
5	Practical Applications of Data Mining Systems	45	3	OO																	15		30					OO	3			
1	Decision Analysis and Decision Theory	60	5	EOO									30	15		15			EOO	5												
2	Multimedia in Business	45	3	OO																	30				15			OO	3			
3	Specialist Seminar 1	30	5	O													30		O	5												
4	Specialist Seminar 2	30	5	Z																						30		Z	5			
5	Business Intelligence Systems	60	5	OO																	30				30			OO	5			

Compulsory subjects module	540	60	6 E	270	3 E	30	210	3	20	60	0 E	10
Specialty - Modelling and Data Analysis	225	23	1 E	0	0 E	0	90	0	10	135	1 E	13
Specialty - Data Exploration Systems	225	23	1 E	0	0 E	0	90	1	10	135	0 E	13
Specialty - Business Analytics	225	23	1 E	0	0 E	0	90	1	10	135	0 E	13
Practices	0	0										
Total (specialty - Modelling and Data Analysis)	765	83	7 E	270	3 E	30	300	3 E	30	195	1 E	23

