

SCHEDULE OF FULL-TIME, FIRST-CYCLE STUDIES

Faculty: The Faculty of Natural Sciences
Field of study: Data Engineering (General academic profile)

Type of classes:			I		II		III		Schedule of class hours																											
No.	Course	code	form of course credit after semester *			1 st year								2 nd year								3 rd year								4 th year				Total number of hours	The total amount of student work	ECTS credits
						1 st semester				2 nd semester				3 rd semester				4 th semester				5 th semester				6 th semester				7 th semester						
			E	Credit with grade	Credit	I	II	III	ECTS	I	II	III	ECTS	I	II	III	ECTS	I	II	III	ECTS	I	II	III	ECTS	I	II	III	ECTS	I	II	III	ECTS			
1. GENERAL COLLEGE COURSES																																				
	Foreign language course	0719-2ID-A01-LJO	5	2,3,4,5						30		2		30		2		30		2		30		3										120	225	9
2	Information and Communication Technologies	0719-2ID-A02-TIK		1			20		1									30															20	25	1	
3	Protection of Intellectual Property and Copyright Law	0719-2ID-A03-OWI		4												15				1													15	25	1	
4	Entrepreneurship	0719-2IDF-A04-P		4												15				1													15	25	1	
5	Courses covering content in the humanities or social sciences	0719-2ID-A05-FP		1		30			2																								30	50	2	
6		0719-2ID-A06-KS		1		15	30		3																								45	75	3	
7	Courses supporting students in the learning process	0719-2ID-A07-TS/ 0716-2ID-A07-KOS		2						15	15		2																				30	50	2	
8	Physical education	0719-2ID-A08-WF		3,4											30				30														60	60	0	
9	Occupational Health and Safety	0719-2ID-A09-BHP			1		4																										4	4	0	
10	Library Training	0719-2ID-A10-SzB			1		2																										2	2	0	
razem						45	56	0	6	15	45	0	4	0	60	0	2	30	60	0	4	0	30	0	3	0	0	0	0	0	0	0	341	541	19	
2. FUNDAMENTAL/FIELD-SPECIFIC COURSES																																				
11	Basics of Mathematics	0719-2ID-C11-PM	1	1		30	30		4																								60	100	4	
12	Data Engeeneering in Physics	0719-2ID-C12-IDwF		1		15		15	2																								30	50	2	
13	Physics 1	0719-2ID-C13-F1	1	1		30	45		5																								75	125	5	
14	Programmer's Environment	0719-2ID-C14-ŠP		1			30		2																								30	50	2	
15	Introduction to Programming	0719-2ID-C15-WdP		1		30	30	15	5																								75	125	5	
16	Fundamentals of Electrical Engineering and Electronics	0719-2ID-C16-PEiE	2	1,2		15	30		3	15	30		3																				90	150	6	
17	Basic Physics Laboratory	0719-2ID-C17-PPF		2							30		2																				30	50	2	
18	Mathematics 1	0719-2ID-C18-M1	2	2						30	30		4																				60	100	4	
19	Mathematics 2	0719-2ID-C19-M2	3	3										30	30		4																60	100	4	
20	Physics 2	0719-2ID-C20-F2	2	2						30	45		5																				75	125	5	
21	Measuring Techniques	0719-2ID-C21-TP		2						15	30	15	4																				60	100	4	
22	Introduction to Algorithms	0719-2ID-C22-WdA	3	3										30	30		4																60	100	4	
23	Probability Theory	0719-2ID-C23-RP	3	3										30	30		4																60	100	4	
24	Object Oriented Programming	0719-2ID-C24-PO		3										30	30	15	5																75	125	5	
25	Discrete Mathematics	0719-2ID-C25-MD	2	2						30	30		4																				60	100	4	
26	Organization of Computer Systems	0719-2ID-C26-OSK		1,2		15	30		3	15	15	30	4																				105	175	7	
27	Numerical Methods in Physical Applications	0719-2ID-C27-MNwZF		3										15	15		2																30	50	2	
28	Physics Laboratory	0719-2ID-C28-PF		3,4											60		4		60		4												120	200	8	
29	Stochastic Processes in Physics	0719-2ID-C29-PSwF		4														30	30		4												60	100	4	
30	Statistics 1	0719-2ID-C30-S1	4	4														30	30		4												60	100	4	
31	Statistics 2	0719-2ID-C31-S2	5	5														30	30		4												60	100	4	
32	Basics of Neural Networks	0719-2ID-C32-PSN	4	4														30	30	15	5												75	125	5	
33	Computer Networks	0719-2ID-C33-SK	4	4														30	30		4												60	100	4	
34	Databases	0719-2ID-C34-BD	3	3										30	30	15	5																75	125	5	
35	Data Visualization Techniques	0719-2ID-C35-TWD		4														30	30	15	5												75	125	5	
36	Analysis of Experimental Data	0719-2ID-C36-ADE	6	6																				15	30	15	4						60	100	4	
37	Experimental Data Sources	0719-2ID-C37-EZD		5																		15	30	30	5								75	125	5	
total						135	195	30	24	135	210	45	26	165	225	30	28	150	210	30	26	45	60	30	9	15	30	15	4	0	0	0	0	1755	2925	117

Type of classes:

Polish Language Course for Foreigners - 4 ECTS
Students are required to complete a first aid course in the amount of 4 hours