

Faculty of Economic Sciences, University of Warsaw

Master's Programme Curriculum

Field of study: **Data Science and Business Analytics** - full-time studies

Academic year 2023/2024

For those students, who did not get respective credits during undergraduate studies:

Occupational Safety and Health (OSH) (there is a possibility of using credits received within the last five years at selected UW faculties)	hours	4	ECTS	0,5
Intellectual Property Protection (IPP)	hours	6	ECTS	0,5

22.03.2023

No	Course code	Course name	Course type	hours / ECTS	year				Total Hours/ECTS Credits	Form of credit	
					I		II				
					1	2	3	4			
A General Courses											
1	university offer	General elective course (OGUN) humanistic profile	general classes	hours		30	30			60	Credit
				ECTS		3	3			6	
		<i>Total of hours in the group of courses</i>				0	30	30	0	60	
		<i>ECTS of credits in the group of courses</i>				0	3	3	0	6	
B Core courses											
2	2400-DS1AMI	Applied Microeconomics	lecture	hours	45					45	exam
				ECTS	5					5	
3	2400-DS1AMA	Applied Macroeconomics	lecture	hours	30					45	exam
			lab	hours	15					5	
				ECTS	5					5	
4	2400-DS1AE	Advanced Econometrics	lecture	hours		30				60	exam
			lab	hours		30				6	
				ECTS		6				6	
5	2400-DS2AF	Applied Finance	lecture	hours			30			45	exam
			lab	hours			15			5	
				ECTS			5			5	
		<i>Total of hours in the group of courses</i>				90	60	45	0	195	
		<i>ECTS of credits in the group of courses</i>				10	6	5	0	21	
C Field -of study courses											
6	2400-DS1R	R: intro / data cleaning and imputation R / basics of visualisation	lab	hours	30					30	exam
				ECTS	3					3	
7	2400-DS1SQL	Python and SQL: intro / SQL platforms	lab	hours	30					30	Credit
				ECTS	4					4	
8	2400-DS1AL	Algorithms for Data Science	lecture	hours		30				45	exam
			lab	hours		15				6	
				ECTS		6				6	
9	2400-DS1ST	Statistics and Exploratory Data Analysis	lab	hours	30					30	Credit
				ECTS	5					5	
10	2400-DS1IDS	Introduction to Data Science	lecture	hours	15					15	exam
				ECTS	3					3	
11	2400-DS1UL	Unsupervised Learning	lab	hours	30					30	Credit
				ECTS	3					3	
12	2400-DS1WSMS	Webscraping and Social Media Scraping	lab	hours		15				15	Credit
				ECTS		3				3	
13	2400-DS1APR	Advanced Programming in R	lab	hours		30				30	exam
				ECTS		5				5	
14	2400-DS1ML1	Machine Learning 1: classification methods	lab	hours		30				30	Credit
				ECTS		4				4	
15	2400-DS2AV	Advanced Visualisation in R	lab	hours			30			30	Credit
				ECTS			6			6	
16	2400-DS2TMS	Text Mining and Social Media Mining	lab	hours			30			30	exam
				ECTS			4			4	
17	2400-DS2BDA	Big Data Analytics	lab	hours			15			15	Credit
				ECTS			2			2	
18	2400-DS2ML2	Machine Learning 2: predictive models, deep learning, neuron network	lab	hours			30			30	Credit
				ECTS			4			4	
19	2400-DS2RR	Reproducible Research	lab	hours				30		30	exam
				ECTS				4		4	
20	2400-DS2WWEF	Elective course (economics or finance)	discussion in lab	hours				30		30	Credit
				ECTS				3		3	
21	2400-DS2WWIT	Elective course (IT tools)	lab	hours				30		30	Credit
				ECTS				3		3	
22	2400-DS2WWQM	Elective course (quantitative methods)	discussion in lab	hours				60		60	Credit
				ECTS				6		6	
		<i>Total of hours in the group of courses</i>			hours	135	120	105	150	510	

		<i>ECTS of credits in the group of courses</i>			<i>ECTS</i>	<i>18</i>	<i>18</i>	<i>16</i>	<i>16</i>	<i>68</i>	
D	Soft skills courses										
23	2400-DS1CA	Communication and Autopresentation	discussion	hours	30					30	credit
				ECTS	2					2	
24	2400-DS2NEG	Negotiations	discussion	hours			30			30	exam
				ECTS			3			3	
25	2400-DS2UB	Understanding Business	lecture	hours				30		30	Credit
				ECTS				3		3	
	<i>Total of hours in the group of courses</i>			hours	30	0	30	30		90	
	<i>ECTS of credits in the group of courses</i>			ECTS	2	0	3	3		8	
D	Master Thesis Seminar										
26	2400-SU2TS....	Master Thesis Seminar	seminar	hours		30	30	30		90	Credit
				ECTS		3	3	11		17	
	<i>Total of hours in the group of courses</i>			hours	0	30	30	30		90	
	<i>ECTS of credits in the group of courses</i>			ECTS	0	3	3	11		17	
	Total of hours			hours	255	240	240	210		945	
	TOTAL of ECTS			ECTS	30	30	30	30		120	