## Faculty of Economic Sciences, University of Warsaw

Master's Programme Curriculum

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

Academic year 2025/2026

Only for those students, who did not complete course during the first degree (obligation to complete in the first year):

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

					ye	ar		Total	
No	Course name	Course type	hours					Hours/ECTS	Form of credi
			/ ECTS	1	2	3	4	Credits	
Α	General Courses	Lockwice/							
1	General elective course (OGUN) humanistic	Lecture/ Seminar	hours		30	30		60	Credit
	profile	classes	ECTS		3	3		6	o. care
	Total of hours in the group of courses			0	30	30	0	60	
	ECTS of credits in the group of courses			0	3	3	0	6	
В	Core courses		la accura	45				45	
2	Applied Microeconomics	Lecture	hours	45 5				45 5	Exam
		Lecture		30					
3	Applied Macroeconomics	Practical	hours	15				45	Exam
		classes	ECTS	5				5	
		Lecture	hours		30			60	
4	Advanced Econometrics	Practical	Hours		30				Exam
		classes	ECTS		6			6	
5	Analisal Figure	Lecture Practical	hours hours			30 15		45	Exam
5	Applied Finance	classes	ECTS			5		5	Exam
	Total of hours in the group of courses	- Graduct	2013	90	60	45	0	195	
	ECTS of credits in the group of courses			10	6	5	0	21	
С	Field -of study courses								
6	R: intro / data cleaning and imputation R /	Practical	hours	30				30	Exam
Ŭ	basics of visualisation	classes	ECTS	3				3	LXdiii
7	Python and SQL: intro / SQL platforms	Practical	hours	30				30	Test/Project
	, yanen ana ega mae y ega pianeme	classes	ECTS	4				4	,
۰	Algorithms for Data Science	Lecture	hours		30			45	Exam
8		Practical classes	hours		15 6			6	
			30	U			30		
9	Statistics and Exploratory Data Analysis	classes	ECTS	5				5	Exam/Project
10	Interesting to Date Colones	Lantuna	hours	15				15	Europ
10	Introduction to Data Science	Lecture	ECTS	3				3	Exam
11	Unsupervised Learning	Practical	hours	30				30	Project
	Onsupervised Learning	classes	ECTS	3				3	Troject
12	Webscraping and Social Media Scraping	Practical	hours		15			15	Exam/Project
		classes	ECTS		3			3	
13	Advanced Programming in R	Practical classes	hours ECTS		30 5			30 5	Exam
		Practical	hours		30			30	
14	Machine Learning 1: classification methods	classes	ECTS		4			4	Credit
1 [	Advanced Visualisation in R	Practical	hours			30		30	Droject
15	Advanced visualisation in K	classes	ECTS			6		6	Project
16	Text Mining and Social Media Mining	Practical	hours			30		30	Test/Project
		classes	ECTS			4		4	, -,
17	Big Data Analytics	Practical classes	hours ECTS			15 2		15 2	Credit
	Machine Learning 2: predictive models, deep	Practical	hours			30		30	
18	learning, neuron network	classes	ECTS			4		4	Project
10		Practical	hours				30	30	Description 1
19	Reproducible Research	classes	ECTS				4	4	Project
20	Elective course (economics and finance)	Seminar	hours				30	30	Credit
		classes	ECTS				3	3	Sicult
21	Elective course (IT tools)	Practical	hours				30	30	Credit
	· ,	classes	ECTS				3	3	
22	Elective course (quantitative methods)	Seminar	hours				60	60	Credit
	Total of hours in the group of courses	classes	ECTS hours	135	120	105	6 150	6 510	
	rotard, mours in the group of tourses	1	hours	133	120	102	120	210	

D	Soft skills courses								
23	Communication and Autopresentation	Seminar classes	hours	30				30	Credit
			ECTS	2				2	
24	Negotiations	Seminar	hours			30		30	Exam
		classes	ECTS			3		3	
25	Understanding Business	Lecture	hours				30	30	Project
			ECTS				3	3	
	Total of hours in the group of courses		hours	30	0	30	30	90	
	ECTS of credits in the group of courses		<b>ECTS</b>	2	0	3	3	8	
D	Master Thesis Seminar								
26	Master Thesis Seminar	Seminar	hours		30	30	30	90	Credit
			ECTS		3	3	11	17	
	Total of hours in the group of courses		hours	0	30	30	30	90	
	ECTS of credits in the group of courses		ECTS	0	3	3	11	17	
	Total of hours		hours	255	240	240	210	945	
	TOTAL of ECTS		ECTS	30	30	30	30	120	