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 deg	ree		
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

	la de la companya de			year				Total	
No	Course name	Course type			I	Hours/ECT	Form of credit		
			/ ECTS	1	2	3	4	S Credits	
А	General Courses								
	General elective course (OGUN) humanistic	Lecture/	hours		30	30		60	
1	profile	Seminar classes	ECTS		3	3		6	Credit
	Total of hours in the group of courses	CIdSSES		0	30	30	0	60	
	ECTS of credits in the group of courses			0	3	3	0	6	
В	Core courses								
2	Applied Microeconomics	Lecture	hours	45				45	Exam
			ECTS	5				5	
2	Applied Macroscopomics	Lecture	hours	30 15				45	5
3	Applied Macroeconomics	Practical classes	ECTS	5				5	Exam
		Lecture	LUIS		30			5	
4	Advanced Econometrics	Practical	hours		30			- 60	Exam
		classes	ECTS		6			6	
		Lecture	hours			30		45	
5	Applied Finance	Practical	hours			15		45	Exam
		classes	ECTS			5		5	
	Total of hours in the group of courses			90	60	45	0	195	
<u> </u>	ECTS of credits in the group of courses Field -of study courses			10	6	5	0	21	
C	R: intro / data cleaning and imputation R /	Practical	hours	30				30	
6	basics of visualisation	classes	ECTS	30				30	Exam
		Practical	hours	30				30	
7	Python and SQL: intro / SQL platforms	classes	ECTS	4				4	Test/Project
		Lecture	hours		30				
8	Algorithms for Data Science	Practical	hours		15			45	Exam
		classes	ECTS		6			6	
9	Statistics and Exploratory Data Analysis	Practical	hours	30				30	Exam/Project
-		classes	ECTS	5				5	
10	Introduction to Data Science	Lecture	hours	15				15	Exam
			ECTS	3				3	
11	Unsupervised Learning	Practical	hours	30				30	Project
		classes	ECTS	3	15			3	
12	Webscraping and Social Media Scraping	Practical classes	hours ECTS		15 3			15 3	Exam/Project
		Practical	hours		30			30	
13	Advanced Programming in R	classes	ECTS		5			5	Exam
		Practical	hours		30			30	a 10
14	Machine Learning 1: classification methods	classes	ECTS		4			4	Credit
15	Advanced Visualisation in R	Practical	hours			30		30	Project
1.5		classes	ECTS			6		6	inoject
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
		Practical	hours				30	30	Project
19	Reproducible Research	classes	ECTS				4	4	
20	Elective course (economics and finance)	Seminar	hours				30	30	Credit
20	Elective course (economics and finance)	classes	ECTS				3	3	Credit
21	Elective course (IT tools)	Practical	hours				30	30	Credit
		classes	ECTS				3	3	
22	Elective course (quantitative methods)	Seminar	hours				60	60	Credit
		classes	ECTS				6	6	
	Total of hours in the group of courses		hours	135	120	105	150	510	
	ECTS of credits in the group of courses		ECTS	18	18	16	16	68	

D	Soft skills courses									
	Communication and Autopresentation	Seminar	hours	30				30	Credit	
23		classes	ECTS	2				2		
24	Negotiations	Seminar	hours			30		30	Exam	
		classes	ECTS			3		3	EXaIII	
25	Understanding Business	Lecture	hours				30	30	Project	
25			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		ECTS	2	0	3	3	8		
D	Master Thesis Seminar									
26	Master Thesis Seminar	Seminar	hours		30	30	30	90	Credit	
20			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		