## Master's Programme Curriculum Field of study: **Data Science and Business Analytics**

## Academic year 2019/2020

25.03.201

		2								
			Course		year				Total	Form of
No	Course code	Course name	type						Hours/ECTS Credits	credit
Α	General Courses				1	2	3	4	Credits	
А	General Courses	OGUN (elective from University	general	hours		30	30		60	
1		offer, humanistic profile)	classes	ECTS		3	3		6	Credit
		Total of hours in the group of courses		LCIS	0	30	30	0	60	
		ECTS of credits in the group of courses			0	3	3	0	6	
В	Core courses									
2	2400-DS1AMI	Applied Microeconomics	lecture	hours	45				45	written
	2 100 2017 ((1))	Applied Wildreconomies	rectare	ECTS	5				5	exam
3	2400-DS1AMA	Applied Macroeconomics	lecture	hours	45 5				45 5	written
			lecture	ECTS	5	30			5	exam
4	2400-DS1AE	Advanced Econometrics	lecture	hours		30			60	written
			lab	ECTS		6			6	exam
			lecture	hours			30		45	written
5	2400-DS2AF	Applied Finance	lab	hours			15			exam
			100	ECTS			5	_	5	Схитт
		Total of hours in the group of courses			90	60	45	0	195	
С	Field -of study co	ECTS of credits in the group of courses			10	6	5	0	21	
C		K: Intro / data cleaning and		hours	15				15	written
6	2400-DS1R	imputation R / basics of	lab	ECTS	3				3	exam
		Python and SQL: intro / SQL		hours	30				30	
7	2400-DS1SQL	platforms	lab	ECTS	4				4	Credit
			lecture	hours		30			45	writton
8	2400-DS1AL	Algorithms for Data Science	lab	hours		15			45	written exam
			100	ECTS		6			6	CXdIII
9	2400-DS1ST	Statistics and Exploratory Data	lab	hours	30				30	Credit
		Analysis		ECTS	5				5	ritton
10	2400-DS1DS	Introduction to Data Science	lecture	hours	15				15	written exam
				ECTS	30				3	CXAIII
11	2400-DS1UL	Unsupervised Learning	lab	hours	3				30 3	Credit
	2400-DS1WSMS	Webscraping and Social Media Scraping		hours	,	15			15	- II.
12			lab	ECTS		3			3	Credit
12	2400-DS1APR	Advanced Programming in R	lab	hours		15			15	written
13	2400 DSIAI K	Advanced Frogramming in K	100	ECTS		5			5	exam
14	2400-DS1ML1	Machine Learning 1: classification ma	lab	hours		30			30	Credit
				ECTS		4	20		4	
15	2400-DS2AV	Advanced Visualisation in R	lab	hours			30 6		30 6	Credit
				hours			30		30	written
16	2400-DS2TMS	Text Mining and Social Media Mining	lab	ECTS			4		4	exam
17	2400-DS2BDA	Big Data Analytics	lab	hours			15		15	Credit
	2400-D32BDA		iau	ECTS			2		2	Credit
ا درا		Machine Learning 2: predictive		hours			30		30	
18	2400-DS2ML2	models, deep learning, neuron network	lab	ECTS			4		4	Credit
10	2400-DS2RR	Reproducible Research	lab	hours				30	30	written
13	2-700 D32NN	neproducible Nesearch		ECTS				4	4	exam
20	2400-DS2WWEF	Elective course (economics or finance	discussi	hours				30	30	Credit
			on in lab lab	ECTS				3	3	
21				hours				30	30 3	Credit
	2400-		discussi	hours				<b>3</b> 60	60	
22	DS2WWQM	Elective course (quantitative method	on in lab	ECTS				6	6	Credit
	•	Total of hours in the group of courses		hours	120	105	105	150	480	
		ECTS of credits in the group of courses		ECTS	18	18	16	16	68	

	Course code	Course name	Course		year			Total		
No					1		II		Hours/ECTS	Form of credit
			type		1	2	3	4	Credits	credit
D	Soft skills courses									
22	2400-DS1CA	Communication and Autopresentatio	discussion	hours	30				30	written
23				ECTS	2				2	exam
24	2400-DS2NEG	Negotiations	discussion	hours			30		30	written
				ECTS			3		3	exam
	2400-DS2UB	Understanding Business	lecture	hours				30	30	
25				ECTS				3	3	Credit
		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									
				hours		30	30	30	90	
26	2400-SU2TS	Master Thesis Seminar	seminar	ECTS		3	3	3	9	Credit
		Preparation of the thesis for the diploma examination		hours		0	0	0	0	
27				ECTS				8	8	
		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	240	225	240	210	915	
		TOTAL of ECTS		ECTS	30	30	30	30	120	

Only for those students, who did not complete course during the first degree

С	ccupational Safety and Health (OSH)		godz.	4	ECTS	0,5
Ir	itellectual Property Protection		godz.	6	ECTS	0,5