Master's Programme Curriculum Data Science and Business Analytics

Academic year 2018/2019

										25.04.2018
No	Course code	Course name	C		year I II				Total	Former of sounds
NO			Course type		1	2	3	4	Hours/ECTS Credits	Form of credit
А	General Courses				-	2	3	4		
				hours	6				6	
1	2400-FIM1POWI	Intellectual Property Protection	training	ECTS	0,5				0,5	Credit
2	0000-BHP-OG	Occupational Safety and Health (OSH)	training	hours	4				4	Credit
2			training	ECTS	0,5				0,5	cicuit
3		OGUN (elective from University offer,	general	hours		30	30		60	Credit
		humanistic profile)	classes	ECTS		3	3		6	
		Total of hours in the group of courses ECTS of credits in the group of courses			10 1	30 3	30 3	0	70	
В	Core courses				-			U	,	
		Applied Microsconomics	locturo	hours	45				45	writton oxom
4	2400-D31AM	00-DS1AMI Applied Microeconomics	lecture	ECTS	5				5	written exam
5	2400-DS1AMA	Applied Macroeconomics	lecture	hours	45				45	written exam
			locturo	ECTS	5	30			5	
6	2400-DS1AE	Advanced Econometrics	lecture	hours		30			60	written exam
-			lab	ECTS		6			6	
			lecture	hours			30		45	
7	2400-DS2AF	Applied Finance	lab	hours			15		_	written exam
		Total of hours in the group of courses		ECTS	90	60	5 45	0	5 195	
		ECTS of credits in the group of courses			90 10	6	45 5	0	21	
С	Field -of study co									
8	2400-DS1R	R: intro / data cleaning and imputation R /	lab	hours	15				15	written exam
0	2400-0311	basics of visualisation	lab	ECTS	3				3	whitten exam
9	2400-DS1SQL	Python and SQL: intro / SQL platforms	lab	hours	30				30	Credit
		, , , , , ,	lecture	ECTS	4	30			4	
10	2400-DS1AL	Algorithms for Data Science	lab	hours hours		50 15			45	written exam
-				ECTS		6			6	
11	2400-DS1ST	Statistics and Exploratory Data Analysis	lab	hours	30				30	Credit
	2400-03131		100	ECTS	5				5	written exam Credit
12	2400-DS1DS	Introduction to Data Science	lecture	hours	15				15	
				ECTS hours	2 30				2 30	
13	2400-DS1UL	Unsupervised Learning	lab	ECTS	3				30	
1/	2400-DS1WSMS	Webscraping and Social Media Scraping	lab	hours		15			15	Credit
14	2400-0310031013		lau	ECTS		3			3	
15	2400-DS1APR	Advanced Programming in R	lab	hours		15			15	written exam
				ECTS hours		5 30			5 30	
16	2400-DS1ML1	Machine Learning 1: classification methods	lab	ECTS		4			4	Credit
17	2400-DS2AV	Advanced Visualisation in R	lab	hours			30		30	Credit
1/	2400-D32AV		lab	ECTS			6		6	creat
18	2400-DS2TMS	Text Mining and Social Media Mining	lab	hours			30		30	written exam
				ECTS hours			4 15		4 15	
19	2400-DS2BDA	Big Data Analytics	lab	ECTS			2		2	Credit
20	2400-DS2ML2 Machine Learning 2: predictive mo learning, neuron network	Machine Learning 2: predictive models, deep	lah	hours			30		30	Credit
20		learning, neuron network	lab	ECTS			4		4	
21	2400-DS2RR	Reproducible Research	lab	hours				30	30	written exam
				ECTS				4 30	4 30	
22	2400-DS2WWEF	Elective course (economics or finance)	discussion in lab	hours ECTS				30	30	Credit
22				hours				30	30	
23	2400-DS2WWIT	Elective course (IT tools)	lab	ECTS				3	3	Credit
24	2400- DS2WWQM	Elective course (quantitative methods) Total of hours in the group of courses	discussion in lab	hours				60	60	Credit
- '				ECTS hours	120	105		6 150	6 480	
							105			

No	Course code	Course name	Course type		year				Total Hours/ECTS	Form of credit
					l I		I			
					1	2	3	4	Credits	
D	Soft skills course	95								
25	2400-DS1CA Co	Communication and Autopresentation	discussion	hours	30				30	written exam
25				ECTS	2				2	
26	2400-DS2NEG	Negotiations	discussion	hours			30		30	written exam
20				ECTS			3		3	
27	2400-DS2UB Unde	Understanding Business	lecture	hours				30	30	Credit
27				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									
20	2400-SU2TS Master Thesis Seminar	Mastar Thosis Sominar	seminar	hours		30	30	30	90	Credit
20				ECTS		3	3	3	9	
29		Preparation of the thesis for the diploma	own work	hours		0	0	0	0	
23		examination		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	250	225	240	210	925	
		TOTAL of ECTS		ECTS	30	30	30	30	120	

Electives:

1) Spatial data in R

2) Interactive applications in Shiny package

3) Credit Risk - methods of scorecards development in R

4) Webb applications for Data Science

5) Time Series in Data Science