Master's Programme Curriculum Data Science and Business Analytics Academic year 2018/2019

25.04.2018

										25.04.2018
						year			Total	
No	Course code	Course name	Course type					Hours/ECTS	Form of credit	
1.00	course code	Course Harrie	course type						Credits	rorm or credit
					1	2	3	4	Credits	
Α	General Courses									
				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
				ECTS	0,5				0,5	0.000
		OGUN (elective from University offer,	general	hours		30	30		60	
3		humanistic profile)	classes	ГСТС		3	3		6	Credit
		, ,	Classes	ECTS		_			_	
		Total of hours in the group of courses			10	30	30	0	70	
		ECTS of credits in the group of courses			1	3	3	0	7	
В	Core courses									
				hours	45				45	
4	2400-DS1AMI	Applied Microeconomics	lecture		_					written exam
				ECTS	5				5	
5	2400-DS1AMA	Applied Macroeconomics	lecture	hours	45				45	written exam
,	Z400 DSIANA	Applied Waer occordines	iccture	ECTS	5				5	Wilter Cain
			lecture			30				
6	2400-DS1AE	Advanced Econometrics		hours					60	written exam
U	2400 D31AL	Advanced Econometrics	lab			30				Witter cam
			1	ECTS		6			6	
			lecture	hours			30		45	
7	2400-DS2AF	Applied Finance	lab	hours			15		43	written exam
			Iab	ECTS			5		5	İ
		Total of hours in the group of courses			90	60	45	0	195	
		ECTS of credits in the group of courses			10	6	5	0	21	
	etalah adam da sa				10	0	3	U	21	
C	Field -of study co									
8	2400-DS1R	R: intro / data cleaning and imputation R / basics of visualisation	lab	hours	15				15	
0	2400-D31K			ECTS	3				3	written exam
				hours	30				30	
9	2400-DS1SQL	Python and SQL: intro / SQL platforms	lab							Credit
				ECTS	4				4	
	2400-DS1AL Algorith	Algorithms for Data Science	lecture lab	hours		30			45	written exam
10				hours		15			43	
				ECTS		6			6	
				hours	30				30	
11	2400-DS1ST	Statistics and Exploratory Data Analysis	lab	ECTS	5				5	Credit
12	2400-DS1DS	Introduction to Data Science	lecture	hours	15				15	written exam
12				ECTS	2				2	
				hours	30				30	
13	2400-DS1UL	Unsupervised Learning	lab	ECTS	3				3	Credit
					3	45				
14	2400-DS1WSMS	Webscraping and Social Media Scraping	lab	hours		15			15	Credit
		, , , , , , , , , , , , , , , , , , ,		ECTS		3			3	
4.5	2400 DC4 4 DD	Advanced Decrees we is a in D	1-1-	hours		15			15	
15	2400-DS1APR	Advanced Programming in R	lab	ECTS		5			5	written exam
				hours		30			30	
16	2400-DS1ML1	Machine Learning 1: classification methods	lab							Credit
				ECTS		4	20		4	
17	2400-DS2AV	Advanced Visualisation in R	lab	hours			30		30	Credit
				ECTS			6		6	
10	2400 DC2T*4C	Tout Mining and Casial Madic Maria	lab.	hours			30		30	
TΩ	2400-DS2TMS	Text Mining and Social Media Mining	lab	ECTS			4		4	written exam
	2400-DS2BDA Big Data Analytics			hours			15		15	Credit
19		Big Data Analytics	lab							
			1	ECTS			2		2	
20	1/400-05/00/	Machine Learning 2: predictive models, deep learning, neuron network	lab	hours			30		30	Credit
20	ZTUU-DJZIVILZ			ECTS			4		4	Credit
	2400-DS2RR	Reproducible Research	lab	hours				30	30	written exam
21									4	
				ECTS				4	-	
22	2400-DS2WWEF	Elective course (economics or finance)	discussion	hours				30	30	Credit
		Elective course (economics of finance)	in lab	ECTS				3	3	
	2400-DS2WWIT	Elective course (IT tools)	lab	hours				30	30	6 11.
23				ECTS				3	3	Credit
	2400		discussion							
24	2400-	Elective course (quantitative methods)	discussion	hours				60	60	Credit
	DS2WWQM	.,	in lab	ECTS				6	6	
		Total of hours in the group of courses		hours	120	105	105	150	480	
		ECTS of credits in the group of courses		ECTS	17	18	16	16	67	

No	Course code	Course name	Course type		year				Total Hours/ECTS	Form of credit
					l l		II			
					1	2	3	4	Credits	
D	Soft skills course	S								
2-	2400-DS1CA	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	Understanding Business	lecture	hours				30	30	Credit
۷,				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 Se	eminar								
28	2400-SU2TS Master Thesis Seminar	Master Thesis Cominar	seminar	hours		30	30	30	90	Credit
20		Sellillai	ECTS		3	3	3	9	Cleuit	
29		Preparation of the thesis for the diploma	own work	hours		0	0	0	0	
		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