Master Degree DATA SCIENCE DM 270/2004 for students enrolled in a.y. 2021/2022 Curriculum DATA SCIENCE - Study Plan Mathematics of Data Science

Exam	Mandatory attendance	Course unit	Type of assessment	Course unit code	Modules	Year	Semester	Credits	Total hours	Lecture hours	Lecture credits	Exercitations hours	Exercitations credits	Laboratory hours	Laboratory credits	Туре	Scientific-Disciplinary Sector	
		Curriculum Data Science																
		Curriculum Data Science				-												
		Study plan Mathematics of Data Science	4															
1	No	Statistical Learning (C.I.)	mark	SCP7079226	Statistical Learning	- 1	1 semester	12	48	48	6					Core courses	Statistics	SECS-S/01
	No	1			Statistical Learning	- 1	2 semester		48	48	6					Core courses	Statistics	SECS-S/01
2	No	Fundamentals of Information Systems	mark	SCP7078720		1	1 semester	12	48	48	6					Core courses	Computer science	INF/01
	No	Stochastic Methods	mark	SCP7079197		1	1 semester	6	48	48	6					Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	MAT/06
		oppure																
3	No	High dimension probability for data science	mark	SCQ0093688		ı	1 semester	6	48	48	6					Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	MAT/06
3	No		mark	SCQ0093685	Machine and deep learning (Mod. A)	1	1 semester	6	48	48	6					Core courses	Computer science	INF/01
4	No	No Machine and deep learning (C.I.)			Machine and deep learning (Mod. B)	1	2 semester	6	48	48	6					Core courses	Computer science	INF/01
5	No	Optimization for Data Science	mark	SCP7079229	/	-	2 semester	6	48	48	6	1				Core courses	Operational Research	MAT/09
6	No	Mathematical models and numerical methods for big data	mark	SCP7079406		1	2 semester	6	48	48	6					Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	MAT/08
		Free credits				,	2 semester	6									Free credits	
		riee credits				- 1	2 Serriester		-								Free credits	
		Optional exams of group 9*																INF/01, ING-INF/05
	No	High dimensional probability for data science	mark	SCP7079297		ı	1 semester	6	48	48	6					Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	ING-INF/05
	No	Mathematical cell biology	mark	SCQ0093722		1	1 semester	6	48	48	6					Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	ING-INF/06
	No	Structural bioinformatics	mark	SCP7079278		1	2 semester	6	48	48	6					Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	BIO/10
9	No	Financial Mathematics for Data Science	mark	SCQ0093689		ı	2 semester	6	48	48	6					Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	SECS-S/06; MAT/06
		Optional exams of group 10*							.									
	No	Human Data Analytics	mark	SCP7079397		- 1	1 semester	6	48	48	6		1			Core courses	Computer Science - Telecommunications	ING-INF/03
	No	Game Theory	mark	SCP7079401		1	1 semester	6	48	48	6					Core courses	Computer Science - Telecommunications	INF/01-ING-INF/03
10	No	Network science	mark	SCP8082723		1	1 semester	6	48	48	6					Core courses	Computer Science - Telecommunications	ING-INF/03
7	No	Statistical Methods for High Dimensional Data	mark	SCP9087918		П	1 semester	6	48	48	6					Core courses	Statistics	SECS-S/01
8	No	Cognitive, Behavioral and Social Data	mark	SCP7079219		П	1 semester	6	32	32	4					Core courses	Psychology of Work and Organisations	M-PSI/06
									16	16	2							
9		One course among exams of group 9				II		6								Educational activities in elective or integrative disciplines	Educational activities in elective or integrative disciplines	SSD vari
10		One course among exams of group 10				Ш		6								Core courses		SSD vari
11		Free credits				II	1 semester	6									Free credits	
		Internship	evaluation	SCP7079232 SCP7079319		- 1		15								D C	Other activities	
		Final examination		SCP7079319		-		15								C	Language/Final exam	

	KEY						
	courses offered in the a.y. 2021/2022						
	courses offered in the a.y. 2022/2023						
	Type						
С	Language/Final exam						
D	Other activities						

^{*} This course can be either taken at the first or at the second year