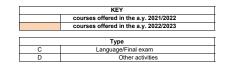**Master Degree DATA SCIENCE DM 270/2004**
for students enrolled in a.y. 2021/2022
Curriculum DATA SCIENCE - Study Plan Machine Learning for Intelligent Systems

Exam number	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	Type	Scientific-Disciplinary Sector	
		Curriculum Data Science																
		Study Plan Machine Learning for Intelligence systems																
1	No	Statistical Learning (C.I.)	mark	SCP7079226	Statistical Learning	I	1 semester	12	48	48	6					Core Courses	**Statistics**	SECS-S/01
	No				Statistical Learning	I	2 semester		48	48	6					Core Courses	**Statistics**	SECS-S/01
2	No	Stochastic Methods	mark	SCP7079197		I	1 semester	6	48	48	6					Educational activities in elective or integrative disciplines	**Educational activities in elective or integrative disciplines**	MAT/06
3	No	Law and data	mark	SCP7079399		I	1 semester	6	48	48	6					Educational activities in elective or integrative disciplines	**Educational activities in elective or integrative disciplines**	IUS/17
4	No	Cognition and computation	mark	SCQ0089498		I	1 semester	6	48	48	6					Core Courses	**Computer Science**	INF/01
5	No	Machine and deep learning (C.I.)	mark	SCQ0093685	Machine and deep learning (Mod. A)	I	1 semester	6	48	48	6					Core Courses	**Computer Science**	INF/01
	No				Machine and deep learning (Mod. B)	I	2 semester	6	48	48	6					Core Courses	**Computer Science**	INF/01
6	No	Optimization for Data Science	mark	SCP7079229		I	2 semester	6	48	48	6					Core Courses	**Operational Research**	MAT/09
7	No	Knowledge and Data Mining	mark	SCP7079318		I	2 semester	6	48	48	6					Core Courses	**Computer Science - Data Processing Systems**	INF/01-ING-INF/05
		Free credits				I	2 semester	6									**Free credits**	
		Optional exams of group 10*																
	No	Process Mining	mark	SCP7079235		I	1 semester	6	48	48	6					Core Courses	**Computer Science - Data Processing**	INF/01, ING-INF/05
	No	Big Data Computing	mark	SCP7079297		I	2 semester	6	48	48	6					Core Courses	**Data Processing Systems**	ING-INF/05
10	No	Information retrieval	mark	SCP7078720		I	2 semester	6	48	48	6					Core Courses	**Data Processing Systems**	ING-INF/05
	No	Fundamentals of Information Systems	mark	SCP7078720		I	1 semester	12	48	48	6					Core Courses	**Computer Science**	INF/01
		Optional exams of group 11																
	No	Biological data	mark	SCP7079337		II	1 semester	6	48	48	6					Educational activities in elective or integrative disciplines	**Educational activities in elective or integrative disciplines**	BIO/10
11	No	Bioinformatics	mark	SCP7079405		II	1 semester	6	48	40	5	8	1			Educational activities in elective or integrative disciplines	**Educational activities in elective or integrative disciplines**	BIO/10
	No	Business Economic and Financial Data	mark	SCP7079231		II	1 semester	6	48	48	6					Educational activities in elective or	**Educational activities in elective or integrative disciplines**	SECS-S/03
8	No	Vision and cognitive systems	mark	SCQ1097939		II	1 semester	6	48	32	4			16	2	Core Courses	**Computer Science**	INF/01
9	No	Cognitive, Behavioral and Social Data	mark	SCP7079219		II	1 semester	6	32	32	4					Core Courses	**Psychology of Work and Organisations**	M-PSI/06
																Core Courses		
10		One course among exams of group 10				II		6								Core Courses		more SSD
11		One course among exams of group 11				II		6								Educational activities in elective or integrative disciplines	**Educational activities in elective or integrative disciplines**	more SSD
12		**Free credits**				II	1 semester	6									**Free credits**	
		Stage	evaluation	SCP7079232		II		15								D	**Other activities**	
		Final examination		SCP7079319		II		15								C	**Language/Final exam**	

KEY	
	courses offered in the a.y. 2021/2022
	courses offered in the a.y. 2022/2023

Type	
C	Language/Final exam
D	Other activities

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