

## Master degree in Data Science

Study plan for students starting the programme in October 2023 (cohort 2023/24)

Course in law, business or social science field
Course in informatics or in information science
Course in math or statistics
Course in economics
Other fields

### CURRICULUM "DATA ANALYSIS AND MODELLING"

Year	Semester	Course	CFU
F i r s t	1	Basics of Computing	9
		Data base and Big Data Analytics (modulo "Data Base")	6
		Data Analysis and Statistical Learning (modulo "Data Analysis")	6
		Optimization	6
		Statistical laboratory	3
	2	Data base and Big Data Analytics (modulo "Big Data Analytics")	6
		Data Analysis and Statistical Learning (modulo "Statistical Learning")	6
		Digital Innovation and Transformation Management	6
		Data and private law	6
S e c o n d	1	Deep Learning (modulo "Basic")	6
		Supplementary course 1*	6
		Computer Security and Data Protection	6
		Survey Design and Questionnaire Data Analysis	6
	2	Deep Learning (modulo "Advanced")	6
		Supplementary course 2**	6
		Elective courses	12
		Traineeship	6
		Dissertation	12
<b>Totale CFU</b>			<b>120</b>

### CURRICULUM "DATA DRIVEN APPLICATIONS"

Year	Semester	Course	CFU
F i r s t	1	Basics of Computing	9
		Data base and Big Data Analytics (modulo "Data Base")	6
		Data Analysis and Statistical Learning (modulo "Data Analysis")	6
		Optimization	6
		Statistical laboratory	3
	2	Data base and Big Data Analytics (modulo "Big Data Analytics")	6
		Data Analysis and Statistical Learning (modulo "Statistical Learning")	6
		Digital Innovation and Transformation Management	6
		Data and private law	6
S e c o n d	1	Deep Learning (modulo "Basic")	6
		Supplementary course 1*	6
		IoT-based Applications for Intelligent Systems	6
		Data Science in the Factory of the Future	6
	2	Deep Learning (modulo "Advanced")	6
		Supplementary course 2**	6
		Elective courses	12
		Traineeship	6
		Dissertation	12
<b>Totale CFU</b>			<b>120</b>

Supplementary courses group 1*	
Accounting Information Systems	6
Behavioral Economics	6
Big Data Sensing, Compression and Communication	6
Cloud Computing and Big Data	6
Credit Risk Management	6
Data Analysis for Public Health	6
Data and Methods for Public Policies Evaluation	6
Economics of Information	6
High Tech Markets, Industrial Organization and Growth	6
Modelling of Complex Systems and Time Series	6
Multimedia Data Modelling	6
Political Science Research Design and Methods	6
Preference Modeling and Choice Theory	6

Supplementary courses group 2**	
Behavioral Economics	6
Credit Risk Management	6
Data and Methods for Public Policies Evaluation	6
Economics of Information	6
High Tech Markets, Industrial Organization and Growth	6

Supplementary courses group 1*	
Accounting Information Systems	6
Behavioral Economics	6
Big Data Sensing, Compression and Communication	6
Cloud Computing and Big Data	6
Credit Risk Management	6
Data Analysis for Public Health	6
Data and Methods for Public Policies Evaluation	6
Economics of Information	6
High Tech Markets, Industrial Organization and Growth	6
Modelling of Complex Systems and Time Series	6
Multimedia Data Modelling	6
Political Science Research Design and Methods	6
Preference Modeling and Choice Theory	6

Supplementary courses group 2**	
Behavioral Economics	6
Credit Risk Management	6
Data and Methods for Public Policies Evaluation	6
Economics of Information	6
High Tech Markets, Industrial Organization and Growth	6

> The individual courses in the "Supplementary courses" groups will be activated only if they are chosen by a minimum of 5 students and in any case by at least 15% of those enrolled in the Cds, rounded up to the nearest whole number.

> Students must choose one course from the "Supplementary courses group 1" and one course from the "Supplementary courses group 2".