

Master degree in Data Science

Study plan for students starting the programme in October 2024 (cohort 2024/25)

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"

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
		Statistical Learning (modulo "Unsupervised Learning")	6
		Optimization	6
		Statistical laboratory	3
	2	Data base and Big Data Analytics (modulo "Big Data Analytics")	6
		Statistical Learning (modulo "Supervised Learning")	6
		Digital Innovation and Transformation Management	6
		Data protection law	6
		Deep Learning (modulo "Foundation and basic algorithms")	6
S e c o n d	1	Supplementary course 1	6
		Computer Security and Data Protection	6
		Bayesian Statistics and Questionnaire Data Analysis	6
		Supplementary course 2	6
		Deep Learning (modulo "Advanced techniques and applications")	6
	2	Supplementary course 1	6
		Elective subject	12
		Supplementary course 2	6
		Other learning Activities	6
		Final Dissertation	12
Totale CFU			120

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F i r s t	1	Basics of Computing	9
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		Statistical Learning (modulo "Unsupervised Learning")	6
		Optimization	6
		Statistical laboratory	3
	2	Data base and Big Data Analytics (modulo "Big Data Analytics")	6
		Statistical Learning (modulo "Supervised Learning")	6
		Digital Innovation and Transformation Management	6
		Data protection law	6
		Deep Learning (modulo "Foundation and basic algorithms")	6
S e c o n d	1	Supplementary course 1	6
		IoT-based Applications for Intelligent Systems	6
		Data Science in the Factory of the Future	6
		Supplementary course 2	6
		Deep Learning (modulo "Advanced")	6
	2	Supplementary course 1	6
		Elective subject	12
		Supplementary course 2	6
		Other learning Activities	6
		Final Dissertation	12
Totale CFU			120

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
Research Design and Data Analysis in Political Science	6
Preference Modeling and Choice Theory	6
Time Series analysis for Economic and Financial Data	6

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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
Time Series analysis for Economic and Financial Data	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
Accounting Information Systems	6
Research Design and Data Analysis in Political Science	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
Accounting Information Systems	6
Research Design and Data Analysis in Political Science	6

Other Learning Activities	
Traineeship	6
Professional Seminars or Courses	6
Relevant job activities	6

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Professional Seminars or Courses	6
Relevant job activities	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".