



Curriculum Content. Description of the Programme of Study

UPC students studying at UNIPD

	First Semester	ECTS
	Process-Oriented Data Processing	6
	Algorithms, Data Structures and	
	Databases	6
	Data Warehousing	6
	Statistical Inference and Modeling	6
1st	Multivariate Analysis	6
Year at FIB		
	Second Semester	
	Big Data Management	6
	Semantic Data Management	6.
	Mining Unstructured Data	6
	Machine Learning	6
	Elective	6
	First Semester	ECTS
	Stochastic Methods	6
	Law and Data	6
2nd Year at UNIPD	Vision and Cognitive Systems	6
	Elective	6
	Elective	6
	Second Semester	
	Master Thesis	15
	Internship	15

Pool of Elective Courses at FIB during Second Semester of First Year				
Algorithms for Data Mining	Cloud Computing and Data Analytics	Techniques and Methodology of Innovation and Research		
Viability of Business Projects	Innovation Project			

^{*}or any other elective course offered when the mobility takes place

Pool of Elective Courses at UNIPD during First Semester of Second Year				
Network Science	Cognition and Computation	Business Economics and Financial Data		
Human Data Analytics	Bioinformatics			





*or any other elective course offered when the mobility takes place

UNIPD students studying at UPC

First Semester	ECTS
Fundamentals of Information Systems	12
Statistical Learning MOD. A	6
Machine Learning	6
Stochastic Methods	6
Law and Data	6
	1.72
Second Semester	
Big Data Computing	6
Statistical Learning MOD. B	6
Natural Language Processing	6
Optimization for Data Science	6
First Semester	ECTS
Process-Oriented Data Science	6
Elective	6
Elective	6
Elective	6
* Students will be informed to start working on the master thesis during the first semester to compensate the added workload in the second one	
Second Semester	
Master Thesis	30
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	Fundamentals of Information Systems Statistical Learning MOD. A Machine Learning Stochastic Methods Law and Data Second Semester Big Data Computing Statistical Learning MOD. B Natural Language Processing Optimization for Data Science First Semester Process-Oriented Data Science Elective Elective Elective * Students will be informed to start working on the master thesis during the first semester to compensate the added workload in the second one Second Semester

Pool of Elective Courses at FIB dur	ring First semester of Second Year	医生物医生物 医自然性病
Advanced Statistical Modeling	Techniques and Methodology of Innovation and Research	
Advanced Multivariate Analysis	Complex Social Networks	Information Retrieval and Recommender Systems
Advanced Machine Learning	Bioinformatics and Statistical Genetics	

^{*}or any other elective course offered when the mobility takes place





All mandatory courses at UPC will be covered by UniPd students according to the following table:

UPC Mandatory Courses	ECTS	Corresponding Courses for UniPD students	ECTS
Algorithms, Data Structures and Databases	6	Fundamentals of Information Systems	12
Data Warehousing	6		1
Statistical Inference and Modeling	6	Statistical Learning MOD. A	6
Machine Learning	6	Machine Learning	6
Big Data Management	6	Big Data Computing	6
Multivariate Analysis	6	Statistical Learning MOD. B	6
Mining Unstructured Data	6	Natural Language Processing	6
Process-Oriented Data Science	6	Process-Oriented Data Science (*)	6
Semantic Data Management	6	Semantic Data Management (*)	6

^(*) Educational activity taken by UniPd students at UPC