



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 Year	Multivariate Analysis	6
at FIB		
	Second Semester	
	Big Data Management	6
	Semantic Data Management	6
	Mining Unstructured Data	6
	Machine Learning	6
	Elective	6
Total State	First Semester	ECTS
	Stochastic Methods	6
	Law and Data	6
2nd	Vision and Cognitive Systems	6
Year	Elective	6
UNIPD	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	
1st Year	Stochastic Methods	
at	Law and Data	
UNIPD		1724
	Second Semester	
	Big Data Computing	6
	Statistical Learning MOD. B	6
	Natural Language Processing	6
	Optimization for Data Science	6
		4344
	First Semester	ECTS
	Process-Oriented Data Science	6
	Elective	6
	Elective	6
	Elective	6
2nd Year at FIB	* 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	
	Second Semester Master Thesis	30

Pool of Elective Courses at FIB dur	ring First semester of Second Year	
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			
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