



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
	First Semester	ECTS
	Stochastic Methods	6
	Law and Data	6
2nd	Vision and Cognitive Systems	6
Year at	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	6
1st Year	Stochastic Methods	6
at	Law and Data	6
UNIPD		
	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
	Process-Oriented Data Science Elective	6 6
		_
	Elective	6
2nd	Elective Elective	6
Year	Elective Elective * Students will be informed to start working on the master thesis during	6
Year	Elective Elective * Students will be informed to start working on the master thesis during the first semester to compensate	6
Year	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	6
Year	Elective Elective * Students will be informed to start working on the master thesis during the first semester to compensate	6
Year	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	6
Year at	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	6
Year at	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	6 6

Pool of Elective Courses at FIB during 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	6	Fundamentals of Information Systems	
Databases			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