Year	Sem	Subject name	Weekly number of hours				ECTS
			Lecture	Tutorial	Labwork	Project	
1	1	Fundamentals of Data Science in Business and Engineering	2		1.5		5
1	1	Programming Essentials for Data Processing	2		1.5		5
1	1	Visual Analytics Techniques	2		1.5		5
1	1	Research activities 1				12	10
1	1	Python programming for business intelligence	2		1.5		5
1	1	R programming for business intelligence					
1	1	Design and management of educational programs	2	1			5
1	2	Introduction to Exploratory Data Analysis	1.5		1	1	5
1	2	Predictive Modeling	1.5		1	1	5
1	2	Neural Networks Essentials	1.5		1	1	5
1	2	Advanced Visual Text Analytics	1.5		1	1	5
1	2	Advanced Visual Data Mining Techniques					
1	2	Research activities 2				12	10
1	2	Educational psychology for adolescents, young people and adults	2	1			5
1	2	Advice and guidance	1	2			5
2	1	Research Design	2			1.5	5
2	1	Software Engineering Fundamentals	2		1.5		5
2	1	Forecasting and Decision Support Systems	2		1.5		5
2	1	Research activities 3				12	10
2	1	Optimization Concepts for Data Science	2		1.5		5
2	1	Data Ethics and Smart Service Design					

2	1	Domain didactics and development in specialization didactics (secondary, post-secondary education)	2	1			5
2	1	Intercultural education	1	2			5
2	2	Ethics and academic integrity	1				2
2	2	Scientific Research, Research Practice and Preparation of Dissertation Thesis				27	28
2	2	Specialized pedagogical practice in pre-university education (secondary, post-secondary education)	42				5
2	2	Exam - Level II					5