



Advanced Data Analytics in Business - Master Course

Learning outcome: *MSc Advanced Data Analytics in Business prepares graduates for a future of data driven and evidence-based decision making. They will learn how to apply the latest academic thinking and analytical and computing tools to facilitate make business decisions, from experienced university teaching staff, as well as visiting professors from European-class universities.*

Although grounded in rigorous technical and quantitative training, our programme is also highly applied. Both core and electives are sector-focused, with a significant share of real-case business problems, giving the opportunity to students to tailor the programme to their interests.

Semester I		Status	Lectures	Practice	ECTS
1.	Programming for Business Applications 1	Core subject	30	30	6
2.	Introduction to Machine Learning in Business	Core subject	30	30	6
3.	Optimization and Business Decision-Making	Core subject	30	30	6
4.	Elective 1		30	30	6
5.	Elective 2		30	30	6

List of Electives (Semester I)		Lectures	Practice	ECTS
1.	Research Design and Data Visualization Techniques	30	30	6
2.	Marketing Intelligence	30	30	6
3.	Mathematics and Statistics in Business Analysis	30	30	6
4.	Fundamentals of Accounting and Business Finance	30	30	6

Semester II		Status	Lectures	Practice	ECTS
1.	Time Series Forecasting	Core subject	30	30	6
2.	Applied Econometrics	Core subject	30	30	6
3.	Quantitative Finance	Core subject	30	30	6
4.	Elective 1		30	30	6
5.	Elective 2		30	30	6

List of Electives (Semester II)		Lectures	Practice	ECTS
1.	Programming for Business Applications 2	30	30	6
2.	Advanced Big Data Analytics	30	30	6
3.	Online Business and Web Analytics	30	30	6
4.	Data Acquisition in Business Intelligence	30	30	6
5.	Academic writing	30	30	6

Semester III		IR hours	ECTS
1.	Internship	100	10
2.	Master Thesis	200	20