

POSTGRADUATE PROGRAM

Enterprise Data Science & Analytics

The program prepares professionals to transform complex data into competitive advantages, using Big Data, Machine Learning, and advanced analytics to optimize processes, create predictive models, and drive growth in demanding markets.

In partnership with



novaims.unl.pt

NOVA IMS premiada com 5 estrelas em todas as nove categorias pela QS Starts – um selo de excelência global.



Enterprise Data Science & Analytics

Developed in partnership with Microsoft, the Postgraduate Program in Enterprise Data Science & Analytics will present the methodologies and tools that will transform data into information, on which enterprises can base strategic information on entering new markets, launching new product or service lines, optimizing processes, transforming business models and, generally, competing in a market increasingly driven by data-driven decisions. This program aims to qualify professionals in the use of big data and machine learning methodologies and tools.

Goals

The course aims to train specialists who are able to:

- 🌀 Explore and transform data;
- 🌀 Create data models and data visualization;
- 🌀 Apply statistical methods to data;
- 🌀 Apply data science methodologies;
- 🌀 Implement and validate machine learning models;
- 🌀 Apply data science techniques in common scenarios within enterprise environments.

Entry Requirements

To enter this program, applicants must meet the following requirements:

- 🌀 Hold a bachelor's degree in a compatible field (completed by January);
- 🌀 Be proficient in English (spoken and written).

#3 Europa #1 Portugal

#3 Mundo

EDUNIVERSAL
Best Masters
Ranking 2025



Academic Calendar and Timetable

The classes will start in February, ending in December of the same year, and run after working hours (after 6.30 p.m.), 2 to 3 times a week.

Who is it for?

This program is aimed at professionals interested in deepening their knowledge in data science and advanced analytics, as well as in the creation of predictive models and their practical application in enterprise environments. It aims to tackle the shortage of highly qualified professionals in this field, with one of the highest growths in the current market of information systems.



For more information or to apply, please visit
www.novaims.unl.pt/EDSA

Study Plan

The study plan of this program consists of 9 course units (60 ECTS):

Spring Semester

Course Units	ECTS
Data Science and Machine Learning	7,5
Managing Relational and Non-Relational Data	7,5
Programming for Data Science	7,5
Statistics for Enterprise Data Analysis	7,5

Fall Semester

Course Units	ECTS
Analyzing Big Data	7,5
Analyzing and Visualizing Data	3,5
Big Data Foundations	7,5
Deep Learning Neural Networks	4,0
Enterprise Data Science Bootcamp	7,5

Faculty Staff

This faculty staff of this program includes internationally renowned academia and reputable experts, to ensure scientific training.

Coordinators of the Program



Professor Roberto Henriques
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Professor Henrique Carreiro
hcarreiro@novaims.unl.pt

Partnership



About NOVA IMS

NOVA Information Management School (NOVA IMS) is Portugal's only higher education institution exclusively dedicated to data science, artificial intelligence, and information management. With more than 4,300 students from 100 nationalities, NOVA IMS is internationally recognized for its excellence in teaching, research, and strong ties to the job market.

Our programs consistently rank among the world's best, and in 2025 the school received the highest possible rating: five stars in all categories in the QS Stars University Ratings. The faculty includes 11 professors listed among the world's top 2% most cited scientists (Stanford University). Since its founding in 1989, NOVA IMS has been committed to educating professionals and researchers capable of transforming data into valuable knowledge and creating real impact across diverse areas of economic and social life.

Contacts

For more information about the NOVA IMS' program, please contact our Admissions Office Department:

admissions@novaims.unl.pt
+351 213 828 610 (Option 2)

Campus de Campolide,
1070-312 Lisboa



EDUNIVERSAL

Best Masters Ranking 2025

#1 IN THE WORLD

MASTER'S PROGRAM

Information Management

Specialization
Business Intelligence

SEVEN TIMES IN A ROW Best. Again.

Nine NOVA IMS programs are among the best in the world. The Master's in Information Management – Business Intelligence is #1 worldwide in its category for the 7th edition in a row.

WORLD	#2	#7		
EUROPE	#2	#5	#1*	#1*
PORTUGAL	#1	#2	#1	#1

MASTER'S PROGRAMS

Statistics and Information Management
Specialization:
Risk Analysis and Management

Data-Driven Marketing
Specialization:
Marketing Intelligence

Data Science and Advanced Analytics

Information Management
Specialization:
Information Systems Management

WORLD	#2	#3		
EUROPE	#2	#3	#2*	#11*
PORTUGAL	#1	#1	#1	#2

POSGRADUATE PROGRAMS

Information Management and Business Intelligence in Healthcare

Enterprise Data Science & Analytics

Digital Marketing and Analytics

Digital Enterprise Management

*Western Europe

ACCREDITATIONS AND CERTIFICATIONS



CO-FINANCED

