

EXECUTIVE MASTER DEGREE PROGRAM

Smart Cities and Urban Analytics

The Executive Master's Program in Smart Cities and Urban Analytics is designed to equip professionals with the skills to develop smarter, more sustainable, and data-driven cities.

Smart Cities and Urban Analytics

Program Overview

The growing digitization of cities and the need for innovative solutions for sustainable urban management require qualified professionals to integrate emerging technologies into city governance and planning. The Executive Master's Program in Smart Cities and Urban Analytics responds to this need, empowering managers and decision-makers to optimize infrastructure, promote energy efficiency, and implement mobility and sustainability strategies based on data and artificial intelligence. This executive program combines theory and practice, addressing topics such as Urban Analytics, digital transformation, data governance, and sustainable urban planning. Students will have direct contact with real challenges through applied projects and collaboration with partner entities, including public administrations and technology companies.

Program goals

The program aims to train specialists capable of:

- 🎯 Understanding the principles of smart cities and their application in sustainable urban management;
- 🎯 Applying urban data analysis techniques, artificial intelligence, and big data to optimize infrastructure and services;
- 🎯 Developing and implementing data-driven public policies that ensure privacy, security, and transparency;
- 🎯 Integrating digital transformation methodologies and tools to modernize urban services;
- 🎯 Promoting technological innovation and efficient resource management in cities.



Length

The course lasts two semesters, with a total of 60 ECTS.

Start Date

September 2026



Language

The language of the course is Portuguese, but materials in English may also be used.

Who is it for?

Senior executives and technical professionals from the private sector and public administration who aim to lead digital transformation projects in areas such as urban mobility, energy efficiency, and smart governance.

The program is also designed for professionals with relevant experience who wish to deepen their technical skills in the field of smart cities, integrating data, technology, and innovation into urban management.

It offers a strategic and applied approach, aligned with the challenges faced by those in leadership, management, or decision-making roles in constantly evolving urban contexts.



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

Study plan

Fall Semester

Course Units	Duration	ECTS
New Horizons	Quarterly	3
Urban Planning	Quarterly	4
Digital Transformation	Quarterly	4
Smart Cities and Territories	Quarterly	4
Data Governance	Quarterly	4
Urban Analytics	Quarterly	4
Sustainability	Quarterly	4
Leadership, Change and Impact	Quarterly	3

Spring Semester

Course Units	Duration	ECTS
Final Work Project	Semester	30

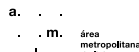
Program Coordinator



PROFESSOR MIGUEL DE CASTRO NETO

Director of NOVA IMS and Associate Professor in Information Management and Information Systems, he is one of Portugal's leading experts in urban intelligence and public innovation. Recognized for his leadership in smart cities and the promotion of data-driven policies, he combines strategic vision with hands-on experience in governance and sustainability.

Partner Entities



About NOVA IMS

The NOVA Information Management School (NOVA IMS), part of the NOVA University of Lisbon, is the only school in Portugal dedicated exclusively to data science, artificial intelligence, and information management. With over 4,300 students from 100 nationalities, it is internationally recognized for the quality of its teaching, research, and connection to the market.

Its programs lead the global rankings – the Master's in Information Management (specialization in Business Intelligence) was distinguished by Eduuniversal as the best in the world for the seventh consecutive year – and in 2025 the school obtained the maximum rating of five stars in all dimensions of the QS Stars University Ratings. The faculty includes eight professors among the top 2% of most cited scientists in the world, according to Stanford University.

Since its foundation in 1989, NOVA IMS has combined pedagogical innovation, scientific excellence, and connection to society, training professionals and researchers capable of transforming data into useful knowledge and generating real impact in multiple domains of economic and social life.

Contacts

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MASTER'S PROGRAM

Information Management

Specialization
Business Intelligence

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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
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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

POSTGRADUATE PROGRAMS

Information Management and Business Intelligence in Healthcare

Enterprise Data Science & Analytics

Digital Marketing and Analytics

Digital Enterprise Management

*Western Europe

ACCREDITATIONS AND CERTIFICATIONS



Computing Accreditation Commission



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