

# THE JOBS OF THE FUTURE ARE HERE ▶▶▶

**NOVA**

**IMS**

Information  
Management  
School



BACHELOR'S DEGREES 2024/25



# We are pioneers in converting data into value

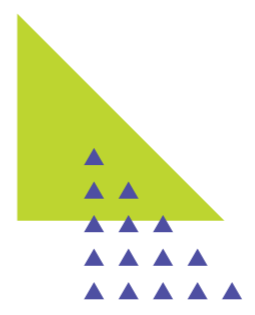
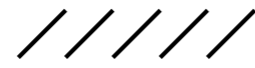
**100%**  
employment rate<sup>(1),(2)</sup>

**€1.394**  
average monthly net salary<sup>(1)</sup>

**34**  
programs  
3 Bachelor's Degrees,  
21 Postgraduate,  
9 Master and 1 Doctoral

**3.800**  
students from  
100 nationalities

(1) Independent ObipNOVA report on NOVA IMS undergraduates in 2019.  
(2) Employment rate measured according to active graduates.  
(3) International organization that brings together leading universities in the research and teaching of information sciences.  
(4) International agency that publishes the annual ranking of the best Masters and MBAs in the world.  
(5) North American Accreditation Agency, world leader in quality certification and in encouraging innovation in academic programs in applied science, computing, engineering and technology related fields.



**#1**  
in several  
international  
recognitions

**iSchools**  
We were the 1<sup>st</sup> institution in the Iberian Peninsula to join iSchools<sup>(3)</sup>

**eduniversal**  
Ten of our master and postgraduate programs were classified by Eduniversal in the TOP Ranking of the Best Masters 2024<sup>(4)</sup>

**ABET** Computing Accreditation Commission  
We have the 1<sup>st</sup> degree in Europe to be accredited in Information Systems by ABET<sup>(5)</sup>

**celonis**  
We are recognized by the world leader in process mining as a center of excellence in this area

Choosing the course and institution of higher education to attend is a significant decision.

NOVA Information Management School (NOVA IMS), the School of Information Management and Data Science of the NOVA University of Lisbon, is a national and international reference in our field of intervention, with recognized scientific and pedagogical expertise.

We are especially geared towards facing the future of organizations and society, by training leaders of digital transformation and data-based management in our three bachelor's degrees, and thus helping to generate high quality professionals with 100% employability levels. Our courses are accredited and lead international rankings.

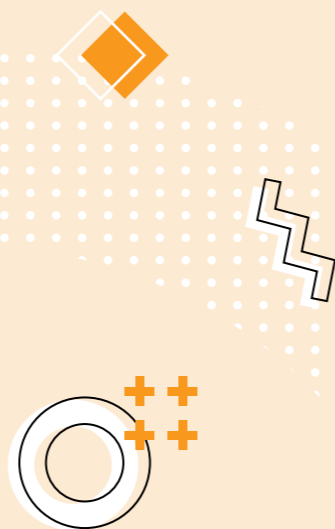
At NOVA IMS, we uphold a commitment to meritocracy as we strive to achieve excellence in all our endeavours, and we have a wide range of scholarships and awards designed to recognize the success of our students.

As a potential new student, do not hesitate to contact us, and rest assured that you will always be welcomed here!

**Miguel de Castro Neto**  
NOVA IMS Dean



# Bachelor's Degree in Data Science



**Course Code:** L188

**Entry Exams Subjects (1 of the following sets)\*\*:**

19 Mathematics A  
19 Mathematics A + 04 Economy  
19 Mathematics A + 10 Descriptive Geometry

**Exams (1 of the following sets)\*\*:**

635 Mathematics A  
635 Mathematics A + 712 Economy A  
635 Mathematics A + 708 Descriptive Geometry A

**Last Placement of the General Quota \***

1<sup>st</sup> Phase - 174,6  
2<sup>nd</sup> Phase - 177,8

\* Results from the 2023-24 academic year

\*\* Information for the 2024/25 National Contest for Access to Higher Education.  
Refer to the bachelor's program webpage to check conditions for years beyond 2025.



[www.novaims.unl.pt/lcd](http://www.novaims.unl.pt/lcd)

In the Data Science bachelor's degree, students learn state-of-the-art artificial intelligence and machine learning techniques for analyzing large volumes of data (big data). They will become true data scientists - considered the sexiest job of the 21<sup>st</sup> century by the Harvard Business Review.

The main objective of this course is to train future professionals capable of understanding, developing, and applying models, algorithms, and the most advanced data science techniques to analyze and extract knowledge from big data.

## Career Opportunities

- » Data scientist;
- » Big data analyst;
- » Data engineer;
- » Specialist in artificial intelligence systems;
- » Specialist in machine learning;
- » Specialist in the development of automatic learning algorithms.

**Sectors of Activity:** IT companies; banking; communications companies; insurance; retail; telecommunications; biomedical companies; pharmaceuticals; public administration; utilities; industry.

## Study Plan

### 1<sup>st</sup> Year

Algorithms and Data Structures  
Computers' Architecture  
Foundational Aspects of Data Science  
Information Systems  
Introduction to Artificial Intelligence  
Introduction to Computational Thinking and DS  
Introduction to Programming  
Linear Algebra  
Mathematical Analysis II  
Mathematical Analysis I  
Personal Development I  
Statistics and Probability Distributions

### 2<sup>nd</sup> Year

Big Data Storage  
Data Pre-processing and Visualization  
Databases  
Forecasting Methods  
Machine Learning I  
Machine Learning II  
Optimization Algorithms  
Programming for Data Science  
Regression Analysis  
Statistical Inference

### 3<sup>rd</sup> Year

Big Data Analysis  
Capstone Project  
Deep Learning  
Ethic, Social and Legal Aspects of AI  
Personal Development II  
Text Mining  
**Optional Curricular Units** (students must choose 30 ECTS):  
Digital Innovation Projects  
Entrepreneurship and Project Analysis  
Geospatial Analytics  
Informatics and Information Law  
Information Systems Seminar  
Network Analysis  
Process Intelligence  
Risk Management  
Web Analytics  
Web Marketing & E-Commerce

## Support and Funding



[www.recuperarportugal.gov.pt](http://www.recuperarportugal.gov.pt)



**The Bachelor's Degree in Data Science is exceptionally well structured and stands out for its constant search for innovation. Its practical component makes the classes much more interesting and enriching for students. Upon completing our degree and having cultivated a strong mastery of essential knowledge and skills, we are prepared to efficiently enter the workforce."**

**Alexandra Pinto**  
Student of the 3<sup>rd</sup> Year

# Bachelor's Degree in Information Management



**Course Code:** 9155

**Entry Exams Subjects** (1 of the following)\*\*:

04 Economy  
16 Mathematics

**Exams to be carried out** (1 of the following)\*\*:

712 Economy A  
635 Mathematics A or 735 Mathematics B

**Last Placement of the General Quota \***

1<sup>st</sup> Phase - 171,8  
2<sup>nd</sup> Phase - 175,7

\* Results from the 2023-24 academic year

\*\* Information for the 2024/25 National Contest for Access to Higher Education.  
Refer to the bachelor's program webpage to check conditions for years beyond 2025.



[www.novaims.unl.pt/lgi](http://www.novaims.unl.pt/lgi)

The Bachelor's Degree in Information Management combines management with data science. It prepares students to become the new generation of managers, capable of understanding business and the current challenges of modern management, transforming data into information. In today's society, there is a high demand for professionals with information management skills, capable of using the most advanced techniques and analytical tools to support decision-making.

## Career Opportunities

- » Information manager;
- » Data analyst;
- » Business analyst;
- » Specialist in data science applied to management;
- » Specialist in analytical marketing;
- » Specialist in decision support systems;
- » Business process analyst.

**Sectors of Activity:** IT companies; banking; insurance; health; telecommunications; logistics/distribution; marketing and market research; consulting; public administration.

## Study Plan

### 1<sup>st</sup> Year

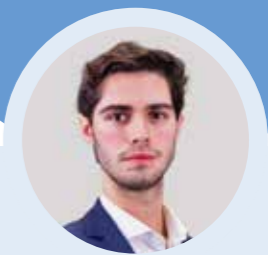
Business Management  
Computation I  
Economic Analysis  
Foundational Aspects of Information  
Information Systems  
Linear Algebra  
Marketing  
Mathematical Analysis I  
Mathematical Analysis II  
Personal Development I  
Programming for Business  
Statistics and Probability Distributions

### 2<sup>nd</sup> Year

Business Intelligence  
Computational Methods for Optimization  
Data Analysis  
Data Preprocessing  
Databases I  
Econometrics I  
Financial Analysis and Management Control  
Geospatial Intelligence  
Machine Learning  
Nonparametric and Computational Statistics  
Statistical Inference  
Survey Methodology

### 3<sup>rd</sup> Year

Business Process Management  
Business Strategy and Digital Transformation  
Econometrics II  
Enterprise Information Systems  
Market Research  
Personal Development II  
**Optional Curricular Units (students must choose 30 ECTS):**  
Applied Economy  
Business Law  
Digital Innovation Projects  
Entrepreneurship and Project Analysis  
Financial Calculus  
Forecasting Methods  
Geospatial Analytics  
Information and Informatics Law  
Information Systems Seminar  
Location Based Services  
People Management and Leadership  
Project Management  
Remote Sensing  
Risk Management  
Smart and Sustainable Cities  
Web Analytics  
Web Marketing and E-Commerce



**This Bachelor's Degree stands out for its perfect combination of the main needs of the job market, combining both the technological and the business component and improving students' decision-making skills. By staying at the forefront of current trends, this course prepares students for an excellent adaptation to the professional world."**

**António Aguiar**

Financial Risk Analyst - Deloitte Luxembourg

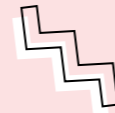
# Bachelor's Degree in Information Systems



This is the  
1<sup>st</sup> Degree in Europe  
to be accredited in  
Information Systems by



Computing  
Accreditation  
Commission



**Course Code:** 8259

**Entry Exams Subjects** (1 of the following)\*\*:

04 Economy  
16 Mathematics

**Exams to be carried out** (1 of the following)\*\*:

712 Economy A  
635 Mathematics A or 735 Mathematics B

**Last Placement of the General Quota\***

1<sup>st</sup> Phase - 166,9  
2<sup>nd</sup> Phase - 173,5

\* Results from the 2023-24 academic year

\*\* Information for the 2024/25 National Contest for Access to Higher Education.  
Refer to the bachelor's program webpage to check conditions for years beyond 2025.

In the Information Systems Bachelor's Degree students learn to analyze, design, and implement information systems that are fundamental in modern organizations, including artificial intelligence, new programming languages, development of apps and web systems, and mobile computing, among other subjects. They also acquire a set of tools that support the business processes of organizations.

## Career Opportunities

- » Systems analyst;
- » Specialist in the development of artificial intelligence systems;
- » Database administrator and programmer;
- » Consultant in information systems and technologies;
- » Specialist in the implementation of information systems;
- » Information systems project manager;
- » Software developer.

**Sectors of Activity:** IT companies; banking; insurance; health; telecommunications; logistics/distribution; e-business; consulting; public administration.

## Study Plan

### 1<sup>st</sup> Year

Business Management  
Computation I  
Computation II  
Information Systems  
Linear Algebra  
Mathematical Analysis I  
Mathematical Analysis II  
Organizations Behavior  
Personal Development I  
Statistics and Probability Distributions  
Technologies and Web Apps  
Theory and Practice of Information Systems

### 2<sup>nd</sup> Year

Computation III  
Computer Networks & Cloud Computing  
Databases I  
Databases II  
Human-Computer Interaction  
Information Technologies Hardware and Software  
Information Systems Project Management  
Mobile Apps Development  
Statistical Inference  
Systems Analysis  
Web Marketing and E-business

### 3<sup>rd</sup> Year

Artificial Intelligence  
Business Process Management  
Cybersecurity  
Geospatial Intelligence  
Project of Information Systems powered by Webasto  
Personal Development II  
**Optional Curricular Units (students must choose 30 ECTS):**  
Applied Cybersecurity  
Computational Methods for Optimization  
Enterprise Information Systems  
Entrepreneurship and Project Analysis  
Geospatial Analytics  
Informatics and Information Law  
Information Systems Project II  
Information Systems Seminar  
Information Technologies, Governance and Service  
Machine Learning  
Nonparametric and Computational Statistics  
Remote Sensing  
Risk Management  
Web Analytics



**The Bachelor's Degree in Information Systems allowed me to be immersed in an extremely dynamic and evolving environment, which gave me the opportunity to be in touch with the latest technologies and trends in the technology sector. The course values and encourages innovation and was undoubtedly the best choice to boost and succeed in my professional career."**

**Marisa Nunes**  
Data & Operations - Bloq.it





# Go further with the Mobility Programs

Through the available mobility programs, NOVA IMS students have the possibility to attend a semester in a European educational institution with which a partnership has been established. Recognizing the significance of fostering a culture of collaboration and mobility, NOVA IMS has currently forged partnerships with 48 institutions across 20 diverse countries.



**Lithuania is captivating due to its contrast with our own reality. In Vilnius, an abundance of entertainment awaits – local festivals and markets define the essence of the city, along with the traditions that deeply immerse us in the rich cultural scene of the country."**

**Carlota Franco**  
Vilnius University - Lithuania



**Studying in Poland has been a unique academic and cultural experience. The university emphasizes dynamic and collaborative teaching, which led me to meet people from all over Europe. I travelled throughout the country and its surroundings and made friendships that last to this day!"**

**Afonso Pereira**  
Nicolaus Copernicus University - Poland



# Companies recognize the value of our students

NOVA IMS is proud to have contributed to the training of excellent professionals in the national and international labor market.

Based on the perspective of promoting the employability of our graduates and an effective interconnection with the business world, NOVA IMS has been developing cooperation ties with companies and other public and private institutions, through the concession of internships and job offers, thus aiming to insert graduates into working life.

Here we present some of the companies that have recruited and made internships available to our students.





# At NOVA IMS academic life is unforgettable



You can count on the NOVA IMS Student Association (NOVA IMS Students' Union) to give you the best years of your life. Whether through social events like the welcoming of new students, great academic festivals, or the NOVA IMS Gala, or through the promotion of sports in various modalities, including an indoor football team, we are here to enhance your experience. As a member, you'll enjoy a wide range of benefits. Meet us in person or through our official social networks.



AD NOVA IMS is the Association for the Development of the NOVA Information Management School.

It is currently made up of 10 public and private institutions that are involved in the academic life of NOVA IMS, through different initiatives such as merit scholarships, internships, research projects, organization of conferences and events, advanced training courses and research seminars, responding to concrete business needs.

AD NOVA IMS plays a crucial role in bridging the academic world and society by publicizing job offers and closely monitoring the employability and professional journeys of graduate students.

## We support your success in the job market

Partners:





# At NOVA IMS we reward excellence



We reward students who excel upon entry to their degree programs and who work to exceed expectations during their academic careers.

Prizes awarded upon entry to the course\*

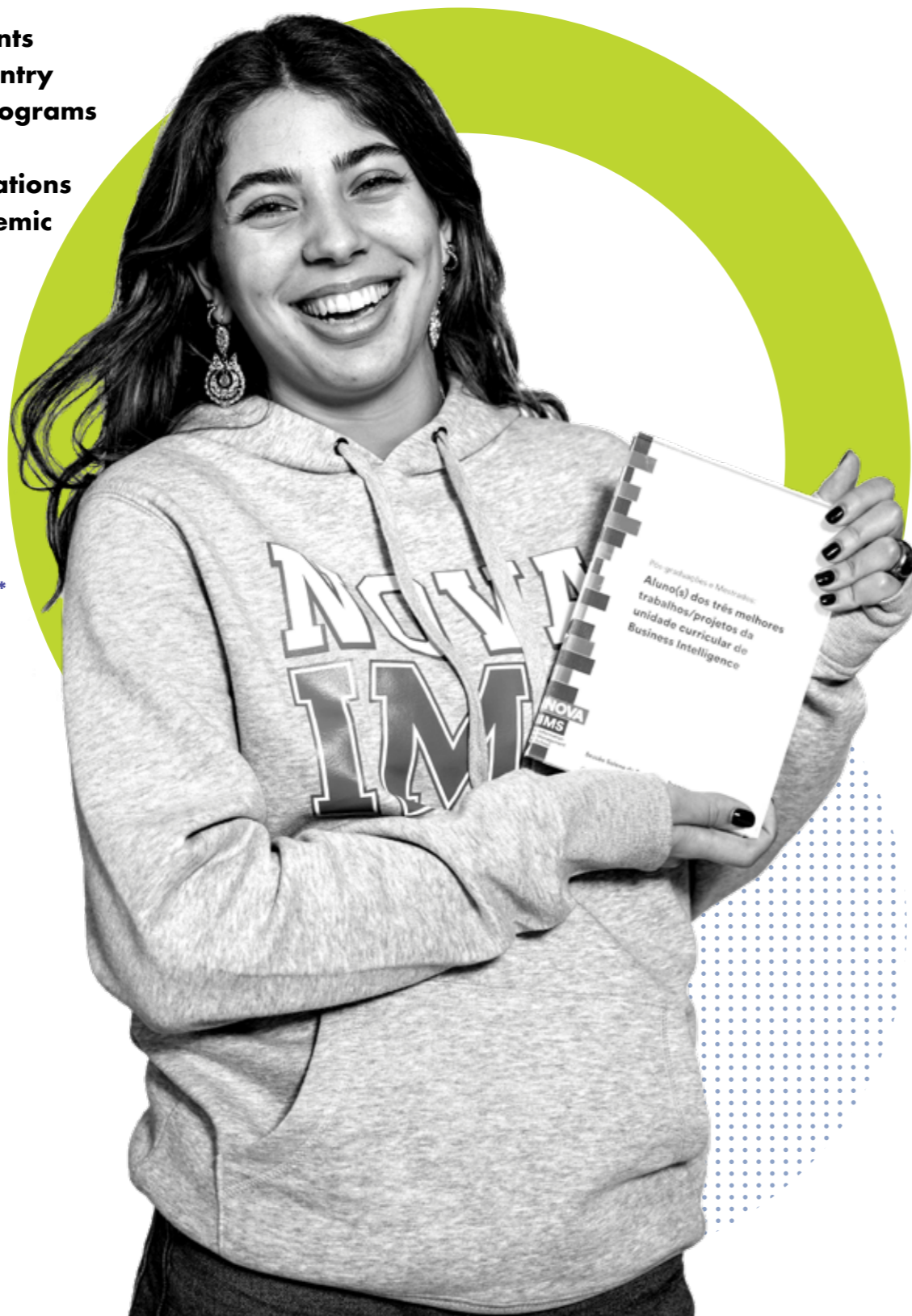
**Jerónimo Martins**

**€1.000**

Best Application Grade of each bachelor's degree

prize in the amount of the **Tuition fee\*\***

Application prize awarded to all students whose average entry is 18 or more<sup>(1)</sup>



**€1.500**

**Best Student Finalist of bachelor's degree\*\***

Bachelor's Degrees in Information Management and Information Systems



**€1.500**

**Best Student of Machine Learning\*\*\***

UC of the Bachelor's Degrees in Information Management and in Information Systems



**GIS Project**

**Institutional Support<sup>(3)</sup>**

For the best student of the Geospatial Intelligence UC of the Bachelor's Degree in Information Systems\*\*\*



**€2.000**

**Best Students (Group Project)\*\***

In the Information Systems Project Course Unit of the Bachelor's Degree in Information Systems



**€1.500**

**Best Student of Course Unit\*\***

Business Process Management (of the Bachelor's Degrees in Information Management and Information Systems) and in Processes Intelligence (Bachelor's Degree in Data Science)



**Scholarship**

**Best Student of Bachelor's Degrees<sup>(4)</sup>**

Scholarship with value to be defined

## Awards for students whose average is equal to or higher than 16.5

**1<sup>st</sup> Year**

**Tuition Fee<sup>(1)</sup>**

60 or more approved ECTS

**2<sup>nd</sup> Year**

**Tuition Fee<sup>(1)</sup>**

120 or more approved ECTS

**3<sup>rd</sup> Year**

**€3.000**

**of discount<sup>(2)</sup>**

180 or more approved ECTS

\*Prizes awarded to students admitted in 2024/2025 through the National Contest for Access to Higher Education and conditioned to registration and enrolment in the 1<sup>st</sup> school year of the bachelor's degree.

\*\* Not cumulative with the award for the best application grade of each bachelor's degree, offered by Jerónimo Martins, and exclusive to students admitted through the National Contest for Access to Higher Education.

\*\*\*Prizes in force in the school year 2023-24. Please access [www.novaims.unl.pt/premios-de-merito](http://www.novaims.unl.pt/premios-de-merito) to confirm the most recent updates.

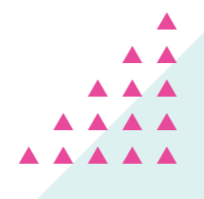
(1) Prize corresponding to the 1<sup>st</sup> year tuition fee.

(2) The value of the tuition for a master's degree to be attended at the NOVA IMS. Not cumulative with Alumni discount. Cumulative with financial discount.

(3) 10 days of institutional support through a Technological Mentor at the Esri facilities for the implementation of a GIS project.

(4) The amount of the grant is 5 times the national minimum wage in force in the academic year in which prize is attributed

# We are here for you



## AD NOVA IMS

### Internships and Employability Office, International Mobility Office

Within the scope of AD NOVA IMS, the Internships and Employability Office's main objective is to bring NOVA IMS students closer to the job market, establishing and developing relationships with companies and publicizing job/internship offers.

Through the International Mobility Office, AD NOVA IMS is also responsible for promoting activities related to Erasmus mobility.

## Value Creation Office

NOVA IMS' Value Creation Office is based on four essential pillars: Executive Education, Entrepreneurship, Knowledge Transfer, and Career Design & Mentoring. Each of these pillars offers a wide range of opportunities for students. The office's main mission is to promote innovation through knowledge. Drawing on the experience cultivated at NOVA IMS, programs and initiatives are proposed for both students and organizations.

## Library and Documentation Services

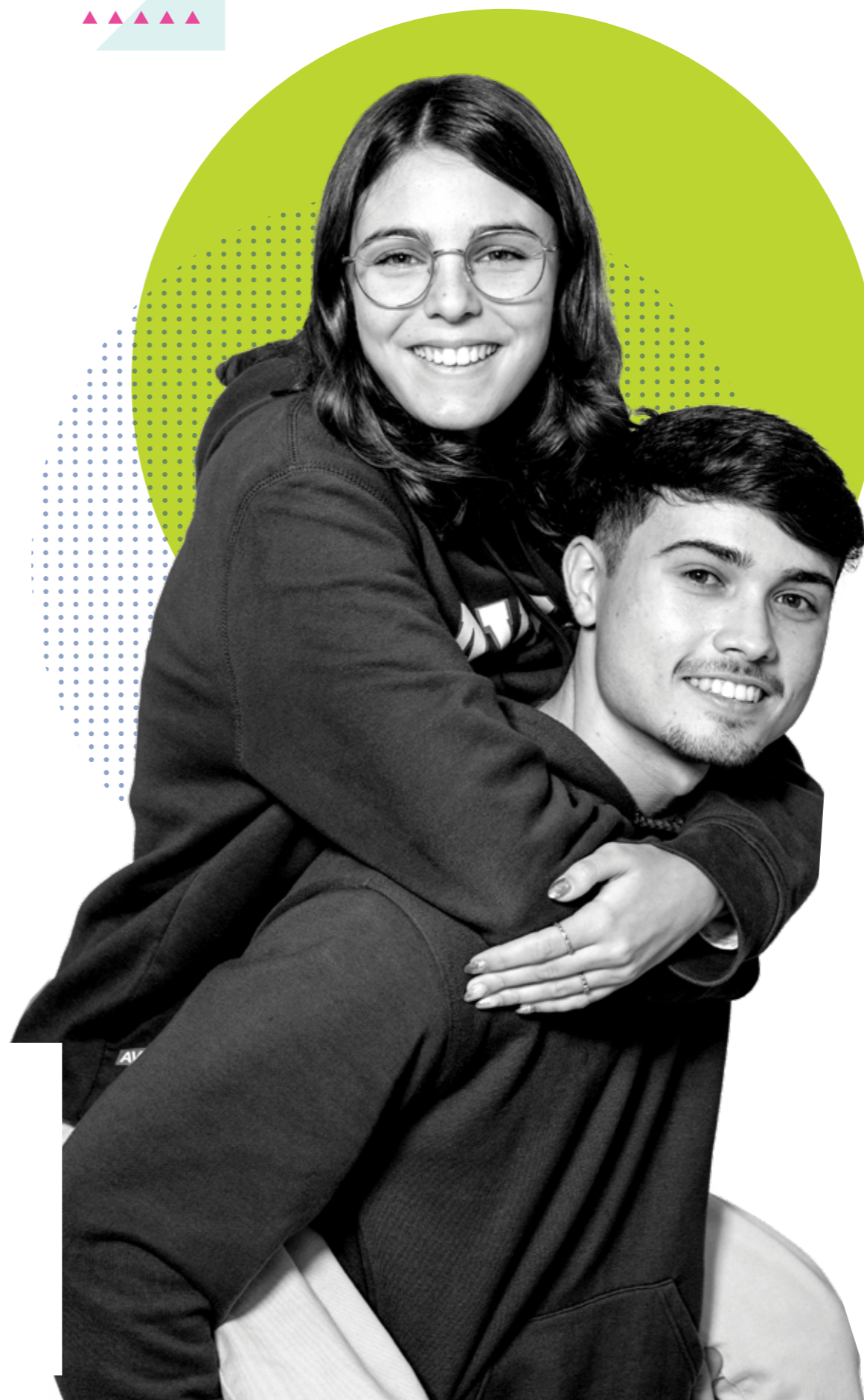
Specialized in Information Management, NOVA IMS Library and Documentation Services aim to provide students access to documentation and information required for the development of their academic and scientific activities.

The library provides versatile workspaces and multiple current bibliographic resources, from emerging scientific areas.

## Academic Services

The Academic Services perform activities in the educational domain, academic monitoring of students and examination to obtain titles and degrees.

NOVA IMS offers a Virtual Secretariat where students can consult all documents, program regulations, school operation procedures, and request the issuance of documents, avoiding a trip to school.



## Informatic Services

NOVA IMS IT Services provide students with Helpdesk support, from 8 a.m. to 10:30 p.m. daily, and supply a set of software for educational and research purposes.

## Student's Support Office

The Students' Support Office assesses suggestions, ideas, requests for information and complaints, ensuring that they are addressed by the relevant departments. Students can also go to this office to obtain clarification of doubts and all other useful information for their academic career.

## Social Action Services

SASNOVA is responsible for allocating scholarships to students in need, promoting access to accommodation for displaced students, promoting access to food for students through canteens and snack bars, as well as for providing medical, psychiatric, psychological and nutritional consultations.



# BACHELOR'S DEGREES

## 2024/25



### Entry Requirements for the National Contest for Access to Higher Education

#### Application Grade Formula

Secondary School Grade: 65%

Entry Exam Subject: 35%

#### Establishment Code

0906 - Universidade Nova de Lisboa - Instituto Superior  
de Estatística e Gestão de Informação

#### Minimum Grades

Application Grade: 100 points

Entry Grade: 95 points

### We're Here!

Campus de Campolide,  
1070-312 Lisboa, Portugal  
Tel: +351 213 828 610

### Contacts

Any questions? Talk to us!

[admissions@novaims.unl.pt](mailto:admissions@novaims.unl.pt)



## Join us for an

# Incredible Memorable Sensational Experience



Register here

#### Accreditations and Certifications



#### Co-Financed



[www.novaims.unl.pt/licenciaturas](http://www.novaims.unl.pt/licenciaturas)