



Lisbon School
of Economics
& Management
Universidade de Lisboa

2023/2024

Masters in Mathematical Finance



**Master the world
in a school built
for the future.**

Index

Why Masters in Mathematical Finance at ISEG	04
Top 7 reasons to do the Masters in Mathematical Finance	05
Study Plan	06
Key Facts	06
10 things you gain by joining ISEG	09
Apply Now	12

Welcome to the next level of Mathematical Finance in the heart of Lisbon.

Mathematics is the language of modern business. This is a Master's degree that provides a solid mathematical background and presents cutting-edge quantitative methodologies and computational techniques that are essential in the financial industry.

We encourage internationalization and student exchange. It is possible to obtain a Double Degree with twin master programmes, currently, at the University of Lorraine, Nancy (France) and at Uniwersytet Ekonomiczny w Poznaniu (Poland).

It's the perfect fit
for business visionaries,
present and future.



 EDUNIVERSAL BEST
MASTERS RANKING 2022

ARIPM | Advanced Risk and
Portfolio Management®

Top 7 reasons

to do the Masters in Mathematical Finance @ISEG Lisbon

01.

Students receive **in-depth training in modern mathematical and computational finance**, becoming familiar with the most important theoretical, applied and technical topics in these areas.

02.

Students have often been **recruited by prominent companies** whilst still developing their Masters Final Work.

03.

Our students have also been recruited by International Institutions like the **European Central Bank**, the **European Investment Bank** and **Google**.

04.

High quality of the academic staff of this Masters, all of whom hold PhDs from prestigious universities.

05.

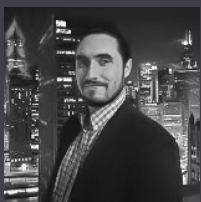
Double degree: students can obtain a **double degree using international agreements**, currently with the University of Lorraine, Nancy (France) and with Uniwersytet Ekonomiczny w Poznaniu (Poland).

06.

This Masters also prepares students for **further doctoral studies and for carrying out innovation and scientific research** in universities or companies.

07.

A partnership of the Masters in Mathematical Finance and the **Advanced Risk and Portfolio Management Bootcamp – ARPM, at the University of New York**, allows students who participate in the bootcamp to obtain not only an ARPM certificate but also a mention in the supplement to their Master’s Diploma.



Zachary Polaski

Quantitative Developer
Milliman, Chicago, USA

“

The master’s programme offers a well-rounded curriculum relevant to both academia and industry. The intellectual challenge will reward you with valuable skills and expertise. If you are interested in the mathematical foundations of financial markets this programme is for you!”

Study plan

	Course Units	Credits	Semester
YEAR 1	Financial Markets and Instruments	6	1
	Mathematical Methods in Finance	6	1
	Programming Techniques	6	1
	Probability Theory and Stochastic Processes	6	1
	Elective I	6	1
	Stochastic Calculus	6	2
	Financial Econometrics	6	2
	Optimisation and Control Theory in Finance	6	2
	Numerical Methods in Finance	6	2
	Elective II	6	2
YEAR 2	Interest Rate and Credit Risk Models	6	1
	Lévy Processes and Applications in Finance	6	1
	Stochastic Finance in Continuous Time	6	1
	MSc Final Work 1 (Thesis/Internship/Project)	12	1
	MSc Final Work 2 (Thesis/Internship/Project)	30	2

Key Facts

Start Date:

September 2023

Schedule:

Daytime

Duration:

3 Semesters of Classes
1 Semester for the Masters Final Work

Language:

English

Tuition Fees:

From within the EU: €5.750
From outside the EU: €6.750

Partnership:



ARPM - Advanced Risk and Portfolio Management

Double Degree:



Université de Lorraine
Uniwersytet Ekonomiczny w Poznaniu

Programme Directors:

Maria do Rosário Grossinho
Jorge Barros Luís
João Janela
João Guerra

Ranking:



Ranked 60th in the World
Top 100 Global Ranking
Financial Markets







10 things you gain by joining ISEG

01.

You join one of the best European Schools. ISEG Lisbon entered the prestigious Global **Financial Times FT Rankings** since 2020, with the Masters in Finance. In 2022, ISEG also entered the European Business School Financial Times Ranking.

02.

You enrich your curriculum. ISEG is accredited by **AACSB**, a distinction earned by only 5% of business schools in the world.

03.

You're always connected. All classrooms are **technologically fully equipped** for a perfect learning experience, whether it's online, in-person, or hybrid.

04.

You broaden your horizons. ISEG is part of the **University of Lisbon, the leading Portuguese university** according to the selective Shanghai Ranking (ARWU), and has an impressive list of partnerships with top-ranked international schools.

05.

You live like a "lisboeta". ISEG is perfectly located for **Lisbon's downtown lifestyle experience**. It's a vibrant, multi-cultural, and cosmopolitan European capital.

06.

You're surrounded by knowledge. ISEG's **high quality research** centers are engaged in a diverse array of international research projects.

07.

You're part of an inclusive club. ISEG has a large, diversified, global network of **talented and successful Alumni**.

08.

You become an asset. **ISEG's graduates are highly desirable to top employers**, both in the private and in the public sector, all over the world.

09.

You join a winning team. ISEG's students and faculty are well known for winning international and national awards for best case studies, best dissertations and research output, applied projects, as well as in student competitions, such as the CFA@ Research Challenge or the Junior Achievement Awards.

10.

You grab your future. ISEG's students benefit from a **collegiate and open-minded atmosphere, in which the United Nations' Sustainable Development Goals (SDGs) play a special role**, leaving them well prepared in quantitative subjects to become influential and conscientious leaders.



Yes, it is YOU!

It's you we're talking to! You, with your tastes, your talents and your doubts.

Your "B-Side" makes a world of difference... we're waiting for you to help you choose the future you want for yourself and for us!

We will welcome you with open arms and more:
ISEG. Open Minds. Grab the Future.

gestã
tos.

Open Minds.
Grab the Fut

ners
eat t
you.

ia e da gestã
lentos.
s.

Open Minds.
Grab the Fut

*Magos dos números, tudo bem?

Math magicians. What's up?

O futuro da economia e da gestão faz-se de diferentes talentos. Vem partilhar os teus.



Lisbon School of Economics & Management
Universidade de Lisboa

Open Minds. Grab the Future.



*Eternos curiosos, venham daí.

Endless seekers. Come on over.

O futuro da economia e da gestão faz-se de diferentes talentos. Vem partilhar os teus.



Lisbon School of Economics & Management
Universidade de Lisboa

Open Minds. Grab the Future.



*Poetas são bem-vindos.

Poets are welcome.

O futuro da economia e da gestão faz-se de diferentes talentos. Vem partilhar os teus.



Lisbon School of Economics & Management
Universidade de Lisboa

Open Minds. Grab the Future.



*Os pensadores formam a galáxia.

Hi there, out-of-the-box thinkers.

O futuro da economia e da gestão faz-se de diferentes talentos. Vem partilhar os teus.



Lisbon School of Economics & Management
Universidade de Lisboa

Open Minds. Grab the Future.



Apply now:

www.iseg.ulisboa.pt/mathematical-finance
smd@iseg.ulisboa.pt

(+351) 213 925 900

ISEG
Rua das Francesinhas
1200-675 Lisboa · Portugal

**OPEN
MINDS.
GRAB
THE FUTURE.**



Rankings:



Memberships:



Accreditations and Partnerships:

