

Doctoral Programmes



Lisbon School
of Economics
& Management
Universidade de Lisboa

PhD

“ Welcome to ISEG Lisbon

At ISEG you will find an environment that is supportive of research, with a friendly atmosphere of sharing and interaction between faculty, researchers and PhD students. We bring together all the necessary means and resources to carry out advanced research in the most cutting-edge research topics.

Furthermore, a comprehensive programme of seminars and conferences takes place throughout the year, which you can attend, selectively choosing according to your interests. We thank you for your interest in our PhD Programmes, which cover different areas of specialization, each targeting a special profile of student. Hopefully we will meet you soon here in Lisbon! But, first, let us highlight three good reasons to choose ISEG for your PhD:



Clara Raposo
Dean of ISEG
Full Professor of Finance



João Peixoto
Associate Dean
for Research of ISEG
Full Professor of
Sociology

01. An Experience at the Leading Edge of Knowledge

Unlike all other academic degrees, the main objective of a PhD is to produce new knowledge – in original research which is relevant to society and respected by the scientific community.

In our school you will find members of faculty who are producing world-class research that is published in top international journals – our PhD students are also expected to present their work at reputed international conferences and publish in high quality scientific journals or in edited books. This is already happening, and you can be next!

02. Learning Advanced Skills

Whether from a more theoretical or from a more applied perspective, a PhD thesis should involve knowledge which is relevant to the economy and society as a whole. In any case, it must incorporate advanced research techniques and methodologies.

With several decades’ experience in educating PhD students, at ISEG we know how to identify and develop the critical skills required by these students: analytical skills, technical skills, confidence to be creative, and even soft skills associated with effective communication.

Many of our PhD alumni play important roles in academia and in the public and private sectors, as well as in the social economy area.

03. Excellent Faculty and Graduates

The scientific research carried out by our research units provides an essential support for our offer of PhD Programmes. Based on many consecutive years of experience, ISEG is the School of Economics and Management that produces the largest volume of scientific publication in refereed academic journals (WoS, SCOPUS) in its scientific areas in Portugal.

The “António Simões Lopes prize”, for the best PhD thesis in the field of Economics carried out in Portuguese universities, was first awarded to Sara Proença for her PhD thesis at ISEG in the field of energy. This prize is sponsored by the Order of Economists, in partnership with PwC. Again in 2020 it was awarded to a PhD thesis from our school (Jorge Faria Silva).

Why ISEG Lisbon

ISEG is the oldest School of Economics and Management in Portugal, with a tradition of over 100 years in educating the Portuguese business and technical elite. With an experienced and well-prepared faculty, ISEG is also recognised for the extraordinary spirit of mutual understanding that is cultivated between its students and faculty. With an ever-increasing focus on internationalisation, ISEG offers a number of programmes taught in English, including three Bachelors degrees and eleven Masters, which attract more international students each year.

ISEG offers ten PhD Programmes, six in key fields of study, and another four in partnership with other schools and universities. A PhD enables students to learn up to the limits of knowledge in an academic environment where research experiences are shared, and ideas and methods are discussed, and where you can always find someone who has common interests. This is what ISEG has to offer in its PhD Programmes. Find out about these topics – and much more – in this brochure, or at iseg.ulisboa.pt.

10 reasons

01.

ISEG is accredited by AACSB, a distinction earned by only 5% of business schools in the world. ISEG's international standards have recently been acknowledged by the reputed Global Financial Times Rankings with the Master in Finance in 2020.

02.

ISEG is a School of the Universidade de Lisboa, a leading university as recognized by the selective Shanghai ranking (ARWU).

03.

As part of the Universidade de Lisboa, ISEG belongs to UNITE! – University Network for Innovation, Technology and Engineering – a network that aims to foster cooperation between higher education institutions in Europe.

04.

ISEG is located in downtown Lisbon, a vibrant, multi-cultural, cosmopolitan, and sunny European city.

05.

ISEG's high quality research centres are engaged in a diverse array of international research projects.

06.

ISEG has a large, diversified, global network of talented alumni.

07.

ISEG students are highly sought after by top employers in government, private industry, and higher education around the world.

08.

ISEG' students and faculty win awards and recognition for best case studies, best dissertation and research output, and applied projects.

09.

ISEG is committed to the United Nation's Sustainable Development Goals (SDGs) for 2030.

10.

ISEG students benefit from a collegiate and open-minded atmosphere with many opportunities to interact with their peers and with faculty.

PhD in Applied Mathematics for Economics and Management

Taught in English

Scientific Committee

M. Teresa Chaves De Almeida
(Coordinator)
Full Professor

Filipe Serra De Oliveira
Senior Associate Professor

Nuno Sobreira
Assistant Professor

This programme prepares students to carry out research work worthy of publication in scientific journals with a peer-review system.

It aims to develop the skills required to devise and implement new mathematical methods that can be used to tackle problems in the areas of Economics and Management.

Target

The PhD Programme in MAEG (Applied Mathematics for Economics and Management) is designed to meet the needs of those who wish to enhance their knowledge of mathematical methods and techniques in order to make original contributions in a particular field or to develop and implement solutions for problems in the areas of Economics and Management.

Entry Conditions and Selection Criteria

The entry requirements are a MSc or BSc degree (with a curriculum of four years or more) in Mathematics, Statistics, Economics, Finance, Management, Physics or Engineering. The degree syllabus and the grade obtained must provide evidence that the applicant has a strong background in Mathematics. Applicants who have not yet completed their degree may be accepted conditionally if they expect to do so before the start of the programme. Applicants who do not hold any of the degrees listed above may also be eligible for admission, provided that the curriculum is deemed suitable for the programme.

Study Topics

The research topics are the following:

- Actuarial Science;
- Dynamical Systems;
- Financial Econometrics;
- Financial Mathematics;
- Macro and Micro-econometrics;
- Mathematical Analysis;
- Operational Research;
- Statistics;
- Time Series.

Programme Structure

The PhD Programme takes three years to complete. The first year is devoted to coursework, and includes the preparation, presentation and viva voce defence of the thesis research project by the student before an examination panel. Please note that if any non-Portuguese speakers are enrolled for the Programme, then lectures will be taught in English. The next two years are dedicated to research, leading to the design, writing and defence of an original dissertation in an area of Applied Mathematics for Economics and Management.



Carlos Martins
Director of Create
Business LDA.

“

I believe Quantitative methods, and in particular Operational Research, can provide extremely valuable management decision systems for any organization. Pursuing a new direction in my professional career I decided to return to ISEG and enrol in the MAEG PhD programme looking to enrich and develop my skills in that scientific field. My objective was fully met. From the excellence lecturing faculty, supervisors, teaching and research resources through the material and administrative supporting conditions, the MAEG PhD ISEG programme delivered everything I was expecting. I strongly recommend it to anyone interested.”



Liliana Pereira
Visitant Assistant Professor
at the Higher Professional Technical
School of the Polytechnic
Institute of Cávado and Ave

“

The MAEG PhD programme was an extremely enriching experience in personal, academic and professional terms. As I have an academic background in Mathematics and Statistics, studying for this PhD programme enabled me to explore a new, more applied area of research, developing knowledge and methodologies in an area as all-important as Finance. It is worth mentioning the quality of teaching and supervision provided by faculty throughout the programme, the environment for sharing experiences and knowledge, the motivation to participate in seminars and conferences, resulted in installing in all of us a critical spirit and constant questioning, which enabled us to grow as researchers and academics. It was a challenge that will certainly mark the rest of my life.”

Faculty and Subject Areas

Alexandra Moura
PhD Politecnico di Milano, Italy
Numerical Analysis, Statistics,
and Actuarial Sciences

Alfredo Egídio dos Reis
PhD Heriot-Wa University,
Edinburgh, UK, Actuarial Science

Amélia Bastos
PhD ISEG, Universidade de Lisboa,
Economics and Statistics

Ana Margarida Neto
PhD Faculdade de Ciências,
Universidade de Lisboa,
Mathematics – Algebra

Artur da Silva Lopes
PhD ISEG, Universidade de Lisboa,
Macroeconometrics

Carlos Oliveira
PhD Instituto Superior Técnico,
Universidade de Lisboa,
Stochastic Optimisation

Esmeralda Arranhado Ramalho
PhD University of Bristol, UK,
Econometrics, Microeconometrics

Fernando Gonçalves
PhD University of Edinburgh, UK,
Mathematical Finance
and Numerical Analysis

Filipa Duarte de Carvalho
PhD ISEG, Universidade de Lisboa,
Operational Research

Filipe Serra de Oliveira
PhD Université Paris-Orsay, France
Partial Differential Equations

Graça Leão Fernandes
PhD ISEG, Universidade de Lisboa,
Economics of Education

Isabel Proença
PhD Université Catholique
de Louvain, Belgium, Applied
Micro-econometrics and Panel Data

João Andrade e Silva
PhD ISEG, Universidade de Lisboa,
Actuarial Science

João Guerra
PhD Universidad de Barcelona,
Spain, Stochastic Analysis and
Mathematical Finance

João Janela
PhD Instituto Superior Técnico,
Universidade de Lisboa,
Numerical Analysis

João Lopes Dias
PhD Cambridge University, UK,
Dynamical Systems

João Nicolau
PhD ISEG, Universidade de Lisboa,
Financial Econometrics

Jorge Caiado
PhD ISEG, Universidade de Lisboa,
Econometrics and Forecasting

José Passos
PhD University of Bristol, UK,
Micro-econometrics

José Pedro Gaivão
PhD University of Warwick, UK,
Dynamical Systems

Leonor Santiago Pinto
PhD ISEG, Universidade de Lisboa,
Operational Research

Lígia Amado
PhD ISEG, Universidade de Lisboa,
Operational Research

Manuel Castro Guerra
PhD Universidade de Aveiro,
Optimisation and Control Theory

Margarida Moz
PhD ISEG, Universidade de Lisboa,
Operational Research

Margarida Vaz Pato
PhD Faculdade de Ciências,
Universidade de Lisboa,
Operational Research

Maria Cândida Mourão
PhD ISEG, Universidade de Lisboa,
Operational Research

Maria de Fátima Fabião
PhD ISEG, Universidade de Lisboa,
Mathematical Finance
and Differential Equations

Maria Do Rosário Grossinho
PhD Faculdade de Ciências,
Universidade de Lisboa, Mathe-
matical Finance and Differential
Equations

Maria Teresa Almeida
PhD London School of Economics,
University of London, UK,
Operational Research

Nicolea Rosati
PhD Università di Padova, Italy,
Econometrics and Panel Data

Nuno Crato
PhD University of Delaware, USA,
Econometrics and Time Series

Nuno Sobreira
PhD Universidade Nova de Lisboa,
Econometrics and Time Series

Onofre Simões
PhD ISEG, Universidade de Lisboa,
Actuarial Sciences

Pierre Hoonhout
PhD University College London, UK
Econometrics and Panel Data

Raul Brás
PhD ISEG, Universidade de Lisboa,
Operational Research

Rui Paulo
PhD Duke University, USA, Statistics

Telmo Peixe
PhD Faculdade de Ciências,
Universidade de Lisboa,
Dynamical Systems

Details and Study Plan

Schedule:
Evening Lectures

Start Date:
September

Participating Centres:
APPLIED MATHEMATICS
(CEMAPRE), ECONOMICS (UECE).

Tuition Fees:
€3,000 – 1st Year;
€2,000 – 2nd – 3rd Years;
€1,000 – 4th – 6th Years

	Course Units	Professor	Credits	Semester
YEAR 1	Advanced Topics of Econometrics*	Pierre Hoonhout	10.0	1
	Advanced Topics of Statistics*	Rui Paulo	10.0	1
	Analysis and Optimisation*	Manuel Castro Guerra	10.0	1
	Computational Mathematics*	João Janela	10.0	1
	Elective	-	6.0	1
	Seminar I	Teresa Chaves de Almeida	4.0	1
	Elective	-	6.0	2
	Preparation of the Thesis Project	Teresa Chaves de Almeida	24.0	2

*The Scientific Committee of the PhD chooses two out of the four course units for each student

YEAR 2	Course Units	Professor	Credits	Semester
	Thesis (Research Seminar)	-	60.0	-

YEAR 3	Course Units	Professor	Credits	Semester
	Thesis (Research Seminar)	-	60.0	-

	Course Units	Professor
Electives	Advanced Risk Theory	Alfredo Egídio Dos Reis
	Financial Econometrics	João Nicolau
	Macroeconometrics	Artur Da Silva Lopes
	Mathematical Methods for Finance	João Guerra
	Operational Research	Teresa Chaves De Almeida
	Panel Data	Isabel Proença
	Time Series Analysis and Forecasting	Jorge Caiado

Funding Opportunities at ISEG

PhD Scholarships

Applicants for the School's PhDs can apply for a variety of scholarships, namely FCT scholarships (granted by FCT or by ISEG research centres) and, in some cases, ULisboa scholarships. The criteria, rules and regulations for applying for scholarships are detailed on our website.

GTA Programme

The GTA (Graduate Teaching Assistants) Programme recruits every year a number of PhD students to teach and grade in the undergraduate or masters' programmes at ISEG. A good opportunity for a first contact with teaching and also to help finance the PhD programme tuition fees. For further information, contact the PhD coordinator.

Research Centres

In some cases, PhD students can be enrolled in projects hosted by the research centres or be supported by them. For further information, contact the PhD coordinator.



Rankings:



Member:



Accreditations and Partnerships:



ISEG's Campus
is Certified
COVID SAFE



Lisbon School
of Economics
& Management

U LISBOA

UNIVERSIDADE
DE LISBOA



Rua do Quelhas 6,
1200-781 LISBOA

iseg.ulisboa.pt
phds@iseg.ulisboa.pt

**OPEN
MINDS.
GRAB
THE FUTURE.**