

#### UNIVERSITY OF PISA

The University of Pisa, one of the oldest in the world, is committed to promoting quality in all areas of research and teaching.

It has been successful in maintaining its resources and infrastructures to meet the new challenges, as well as its attractiveness for international students and researchers.

In the University of Pisa, Dipartimento di Economia e Management is one of the biggest department, with lively research activities in applied mathematics, economics, management, and statistics. It serves about 6000 students, both at undergraduate and postgraduate level, coming from Italy, as well as from other countries of the world.

#### SANT'ANNA SCHOOL OF ADVANCED STUDIES

Sant'Anna School of Advanced Studies aims at experimenting innovative paths in research and education. Professors and researchers live and interact with students, enjoying a continuous cultural and intellectual exchange.

The Institute of Economics carries out research and training activities in the field of empirical and theoretical economics and favours dialogue between empirical investigations, theoretical developments and normative contributions, offering an interdisciplinary environment in which different research interests and competencies, ranging from Economics, to Information Sciences, Mathematics and Physics meet and can be fruitfully integrated.



MASTER OF SCIENCE IN  
ECONOMICS

DIPARTIMENTO DI  
ECONOMIA E MANAGEMENT  
UNIVERSITÀ DI PISA

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## Master of Science in Economics



**DEM** DIPARTIMENTO DI  
ECONOMIA E  
MANAGEMENT  
UNIVERSITÀ DI PISA



# MASTER OF SCIENCE IN ECONOMICS

The "Master of Science in Economics (MSE)" is a two-year master program, completely taught in English, jointly organized by the University of Pisa and Sant'Anna School of Advanced Studies.

MSE is a program of scientific excellence enhancing the abilities of students of analyzing economic phenomena at different levels: firms, industry, national and international. It provides the basic skills for professionals able to interpret the fast-changing economics environment of the 21st century.

The quantitative nature of the program also serves as an excellent background to access to research-focused jobs and PhD programmes.

Career opportunities are mainly focused in professions with strong research content within corporations, international organizations, public or private research centers, consulting firms, regulatory authorities, central banking, professions requiring strong quantitative skills within consultancies and financial institutions.

MSE also opens professional academic careers in the areas of economics, statistical analysis, finance, economic history, social sciences and applied mathematics.

## ADMISSION

Applications can be submitted by graduate and undergraduate students, provided that the latter expect to graduate before the 31 of December.

In order to gain admission to MSE program, the candidate must possess a solid knowledge at the undergraduate level of theoretical and quantitative methods and have a strong motivation.

### TUTION FEES

University fees depend on the student's country of origin and can vary from 200 euros up to 2.400,00 euros.

### DSU SCHOLARSHIP

All MSE students can apply for the DSU Scholarship, consisting of a series of supporting activities, such as free accommodation, free access to the University canteen, partial exemption from fees, etc.

### UNUPI SCHOLARSHIP

The University of Pisa allocates every year merit scholarships to international students admitted to one of the courses taught in English language.

FURTHER INFO:



## PROGRAM

It is a two-year Master (120 ECTS), completely taught in English. In the 1st year students find mandatory and fundamental activities, while the 2nd year is demanded to elective activities, where students can tailor a personal specialization track toward the final Master Dissertation.

MSE has three different curricula: General Economics (GE), Official Statistics (OS), Quantitative Finance (QF).

OS curriculum is labelled by the European Commission with EMOS (European Master in Official Statistics) and offers a Double Degree program with the University of Trier.



### FIRST YEAR (60 ECTS)

#### COMMON TO ALL CURRICULA

Advanced Econometrics (9 ECTS)  
Advanced Macroeconomics (12 ECTS)  
Advanced Microeconomics (12 ECTS)  
Advanced Statistics (9 ECTS)

#### Curriculum in General Economics (GE)

Mathematical Methods for Economics (12 ECTS)  
European Economic Law (6 ECTS)

#### Curriculum in Official Statistics (OS)

Official Statistics (Internship) (12 ECTS)  
European Economic Law (6 ECTS)

#### Curriculum in Quantitative Finance (QF)

Mathematical Methods for Economics (12 ECTS)  
Mathematical Methods for Financial Markets (6 ECTS)

### SECOND YEAR (60 ECTS)

#### Curriculum in General Economics (GE)

##### Student's choice for a total of 24 ECTS:

- Computational Economics (6 ECTS)
- Economic Methodology (6 ECTS)
- Economic Growth in History (9 ECTS)
- Financial Economics (9 ECTS)
- Globalization and Economic Development (6 ECTS)
- History of Economic Thought (6 ECTS)
- Industry and Innovation Dynamics Economics (6 ECTS)
- Labour Economics in an European Perspectives (6 ECTS)
- Survey Methods: Traditional and New Techniques in Official Statistic (6 ECTS)
- The Economics of the European Union (6 ECTS)
- Topics in Macroeconometrics (6 ECTS)
- Topics in Microeconometrics (6 ECTS)
- Development Economics (6 ECTS)

##### Student's choice for a total of 12 ECTS:

- Business and Society (6 ECTS)
- Corporate Finance (6 ECTS)
- Economics of Management and Innovation (6 ECTS)
- Finance Risk Management (6 ECTS)

Student's free choice (9 ECTS)

Final dissertation (15 ECTS)

#### Curriculum in Official Statistics (OS)

##### EMOS core courses (12 ECTS):

- European Statistical System and Data Production Model (6 ECTS)
- Survey Methods (6 ECTS)

##### Student's choice for a total of 6 ECTS:

- Analysis of Survey Data and Small Area Estimation (6 ECTS)
- Topics in Macroeconometrics (6 ECTS)

##### Student's choice for a total of 12 ECTS:

- Business and Society (6 ECTS)
- Corporate Finance (6 ECTS)
- Economics of Management and Innovation (6 ECTS)
- Finance Risk Management (6 ECTS)

Final dissertation in Official Statistics (30 ECTS)

#### Curriculum in Quantitative Finance (QF)

Financial Economics (9 ECTS)  
Law of financials markets and istitutions (6 ECTS)  
Corporate Finance (6 ECTS)

##### Student's choice for a total of 6 ECTS:

- Financial Econometrics (6 ECTS)
- Mathematical Methods for Insurance (6 ECTS)

##### Student's choice for a total of 6 ECTS:

- Business and Society (6 ECTS)
- Economics of Management and Innovation (6 ECTS)
- Financial Risk Management (6 ECTS)

Student's free choice (9 ECTS)

Final dissertation (18 ECTS)