

PhD Programme in Economics, Statistics and Sustainability

University of Naples Parthenope

DISEG

Dipartimento
di Studi Economici
e Giuridici



The Programme

- The **PhD Programme in “Economics, Statistics and Sustainability”**, designed on a broad but well-defined subject area, features a highly qualified Academic Board, composed by economists and statisticians, including international scholars.
- The PhD Programme is structured over **three years**.
- The integration of economic, financial, mathematical, statistical and sustainability-related subjects within the PhD Programme aims to provide PhD students with an excellent academic background. The programme is structured over 60+ ECTS in the first year to foster important achievements in scientific research and involvement in the business world.
- The **modules taught** range from mathematics to applied statistics, from econometrics and economics to finance, with a particular focus on the issue of sustainability, tackled from different perspectives. The interaction among these disciplines allows students to develop essential research skills as well as to accrue thorough and up-to-date knowledge.
- The **Research** activities carried out by Academic Board members and PhD students have been recognised at both national and international levels.

Academic Board

- The **Academic Board** includes 19 Italian Professors (the Domestic Board) as well as international professors (the International Board). The role of international professors is to advise the Board on research patterns, ideas, conferences. Meetings are held remotely, allowing international professors to participate easily.
- The Academic Board has developed important synergies with the business world, through both an industrial version of the programme and industrial scholarships (POR and PON). Members of the Academic Board participate in regional, national and international projects (e.g. PRIN, EUROSTAT, SEVENTH FRAMEWORK PROGRAM).
- **Head of the PhD Programme:** Prof. Massimiliano Agovino, Full Professor of Economic Policy
- **Domestic Board:** AGOVINO Massimiliano, ANNUNZIATA Azzurra, BARTOLETTO Silvana, BATTAGLIA Francesca, BOCCIA Flavio, BUSATO Francesco, CASTELLANO Rosalia, CERCIELLO Massimiliano, CHIARINI Bruno, CORSARO Stefania, COZZA Claudio, D'AGOSTINO Antonella, DE LUCA Giovanni, DE MARCO Giuseppe, FERRARA Maria, GAROFALO Antonio, MARCHESANO Katia, MARCHETTI Enrico, MARINO Zelda.
- **International Board:** DREJERSKA Nina, CRISAN-MITRA Catalina, FRANC-DABROWSKA Justyna, PARDALOS Panos.

Study Plan

During the **first year**, PhD students attend classes, organised over sequences (see below for details)

MATH SEQUENCE

- AN INTRODUCTION TO DYNAMIC OPTIMIZATION
- ADVANCED LINEAR ALGEBRA
- AN INTRODUCTION TO DYNAMIC OPTIMIZATION

STATISTICS – ECONOMETRICS SEQUENCE

- STATISTICS AND R LABORATORY
- APPLIED MULTIVARIATE STATISTICAL ANALYSIS
- INTRODUCTION TO ECONOMETRICS
- APPLIED ECONOMETRICS
- ADVANCED MODELING IN STATISTICS
- COMPOSITE INDICATORS METHODOLOGY
- SAMPLE SURVEYS: PRINCIPLES, METHODS AND APPLICATIONS
- A PRIMER FOR SPATIAL ECONOMETRICS
- APPLICATIONS OF SPATIAL ECONOMETRIC TECHNIQUES
- TIME-SERIES ANALYSIS

SUSTAINABILITY SEQUENCE

- EXPERIMENTAL ECONOMICS
- INTERNATIONALIZATION AND FOOD COMPANIES
- ECONOMICS OF FOOD SYSTEM AND SUSTAINABILITY
- CLIMATE FINANCE FOR ENERGY SUSTAINABILITY

FINANCE SEQUENMCE

- QUANTITATIVE FINANCE
- ADVANCED QUANTITATIVE METHODS IN FINANCE
- TOPICS IN RISK MANAGEMENT
- MACROECONOMIC STABILITY AND FINANCE
- FINANCIAL CRISIS IN A LONG TERM PERSPECTIVE - ENERGY AND ECONOMIC GROWTH

MACRO SEQUENCE

- MACROECONOMIC THEORY I
- MACROECONOMIC APPLICATIONS I
- MACROECONOMIC THEORY II
- MACROECONOMIC APPLICATIONS II
- DSGE MODELS AND BAYESIAN ESTIMATIONS IN DYNARE
- ADVANCED TOPICS IN MACROECONOMICS AND FINANCE

MICRO SEQUENCE

- MICROECONOMIC THEORY
- GAME THEORY
- LAW AND ECONOMICS APPROACHES TO LABOR MARKET
- ECONOMICS OF INNOVATION
- INNOVATION AND INTERNATIONALISATION
- FIRMS, INNOVATION AND TECHNOLOGY

SPECIAL TOPICS

- INTRODUCTION TO TREATMENT EFFECTS AND POLICY EVALUATION WITH APPLICATIONS TO INNOVATION POLICIES
- TOPICS IN WATER ECONOMICS
- LAW AND ECONOMICS APPROACHES TO ENVIRONMENTAL ISSUES
- ENERGY EFFICIENCY
- ENVIRONMENTAL ECONOMETRICS

During the **second year** students are encouraged to go abroad and/or participate in seminar activities. Between the end of the first year and the beginning of the second year, students prepare their research project, which must be approved by their supervisor. Second-year students are required to give a presentation on their lines of research in front of a small commission identified by the Board.

The **third year** is fully devoted to writing the dissertation. This activity may be carried out either at Parthenope or abroad. Third-year students are required to present their work in a dedicated session of departmental seminars.

Structures

- An entire building for the School of Economics and Law
- Renovated classrooms, student spaces, computer facilities, efficient office and study spaces, digital resources and software.



Location and Contacts

- Address: Via General Parisi n. 13, 80132 Naples.
- The main building is located in the city center, on top of a hill, in a green, quiet and safe area.
- Contacts:
 - Prof. Massimiliano Agovino, Head of the PhD Programme
 - Email: massimiliano.agovino@uniparthenope.it



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