Ph.D. in Economics, Statistics and Sustainability
University of Naples Parthenope
• The **Ph.D. program in “Economics, Statistics and Sustainability”**, designed on a broad but well-defined subject area, features a highly qualified Academic Board composed of economists and statisticians, including international scholars.

• The Ph.D. program is structured over **three years**.

• The integration of economic, financial, mathematical and statistical subjects within the PhD course is aimed to provide the PhD students with an excellent formative path. The curriculum is structured on at least 70 Credits in the first year and designed to foster important achievements in scientific research and involvement in the business world.

• The **offered courses** range from mathematics to applied statistics, from econometrics and economy to finance, with a particular focus on the issue of sustainability in many of its features. The interaction of these disciplines enables students to develop essential research skills as well as gain a thorough and up-to-date knowledge.

• **Research** carried out by the Academic Board members and by the PhD students has been recognized at both national and international levels. Since 2016 (XXXII cycle) the PhD program has become international.
• The Academic Board is made of at least 16 Italian professors (the Domestic Board) and of international professors (the International Board). The role of international professors is to advice the Board on research patterns, ideas, conferences. Meetings are remotely hold, and international professor can choose to participate to the important ones.

• The Academic Board, in addition to a high profile research pattern, has established important collaborations with the corporate sector, providing a dimension of the PhD program to follow an industrial focus. The current PhD cycle (XXXIV) has in fact offered five industrially-sponsored scholarships, consistent with the National Strategy of Intelligent Specialization (SNSI) approved by the European Commission and concern the areas of Intelligent and Sustainable Industry, Energy and the Environment, and Blue Growth (e.g., sustainability, logistics of transport, urban mobility, plastics management, environment insulation strategies).

• Head of the PhD Program: Prof. Francesco Busato, Full Professor, Ph.D. Columbia University, NY, NY

• Domestic Board: is made of 7 Full Professors (Prof. Antonio Garofalo, Prof.ssa Rosalia Castellano, Prof. Bruno Chiarini, Prof. Giovanni De Luca Giovanni, Prof. Enrico Marchetti, Prof.ssa Perla Francesca, Prof. Concetto P. Vinci) and 10 Associate Professors (Prof. M. Agovino, Prof.ssa A. Annunziata, Prof.ssa S. Bartoletto, Prof. F. Boccia, Prof.ssa S. Corsaro, Prof. A. D'Agostino, Prof. G. De Marco, Prof.ssa E. Marzano, Prof. A. Regoli, Prof. G. Scandurra).

• International Board: Prof. Bo S. Rasmussen, University of Aarhus (XXXII, XXXII, XXIV Cycle); Prof.ssa Nina Drejerska, PhD, Warsaw University of Life Sciences (Associate Dean for Domestic and International Cooperation), Prof. Panayote (Panos) M. Pardalos, Distinguished Professor Paul and Heidi Brown Preeminent Professor in Industrial and Systems Engineering Director of Center for Applied Optimization.
• During the **first year** Ph.D. students attend classes, organized over sequences (see below for details)

  - **MATH SEQUENCE**
    - ADVANCED LINEAR ALGEBRA
    - AN INTRODUCTION TO DYNAMIC OPTIMIZATION
    - R: STRENGTHS AND WEAKNESSES
  - **STATISTICS – ECONOMETRICS SEQUENCE**
    - STATISTICS AND R LABORATORY
    - APPLIED MULTIVARIATE STATISTICAL ANALYSIS
    - SAMPLE SURVEYS: PRINCIPLES, METHODS AND APPLICATIONS
    - ADVANCED MODELING IN STATISTICS
    - COMPOSITE INDICATORS METHODOLOGY
    - TIME-SERIES ANALYSIS
    - AN INTRODUCTION TO SPATIAL ECONOMETRICS
  - **SUSTAINABILITY SEQUENCE**
    - ECONOMICS OF FOOD SYSTEM AND SUSTAINABILITY
    - CLIMATE FINANCE FOR ENERGY SUSTAINABILITY
    - INTERNATIONALIZATION AND FOOD COMPANIES
  - **SPECIAL TOPICS**
    - TRANSPORT ECONOMICS AND LOGISTICS
    - INTRODUCTION TO MACHINE LEARNING
    - APPLIED ECONOMICS
    - NETWORK AND HARBOUR OPTIMIZATION
    - EXPERIMENTAL ECONOMICS
  - **FINANCE SEQUENCE**
    - QUANTITATIVE FINANCE
    - ADVANCED QUANTITATIVE METHODS IN FINANCE CORPORATE FINANCE
    - RISK MANAGEMENT
    - ASSET PRICES IN DSGE MODELS STATISTICS
  - **ECON SEQUENCE**
    - MICROECONOMIC THEORY
    - GAME THEORY BUSINESS CYCLES AND FINANCIAL CYCLE
    - MACROECONOMIC THEORY
    - MACROECONOMIC STABILITY AND FINANCE
    - GROWTH THEORY DSGE MODELS AND BAYESIAN ESTIMATIONS IN DYNARE
    - FINANCIAL CRISIS IN A LONG TERM PERSPECTIVE - ENERGY AND ECONOMIC GROWTH
    - LABOR ECONOMICS
    - INTRODUCTION TO TREATMENT EFFECTS AND POLICY EVALUATION WITH APPLICATIONS TO INNOVATION POLICIES

• The **second year** of the PhD. program offers students the opportunity to go abroad and / or participate in the seminar activity organized. At the end of the first year / beginning of the second year, the research project is prepared and approved by the tutor. Second year students are required to make a presentation of the line / lines of research to a small commission identified by the Board.

• The **third year** is dedicate to work full-time in writing research papers and the thesis; this can be done either at home University or abroad; third year students are required to make a paper presentation in departmental seminar, in a dedicated session.
• A full building dedicated to Economics and Law departments;
• Renovated classrooms, student spaces, computer facilities, efficient office and study spaces, digital resources, softwares.

The Structures
• Address: Via General Parisi n. 13, 80132 Naples.

• Main building is located in the city center, on a top of a hill, in a green, quiet and safe area.

• Contacts:
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