



Study Plan

School: Institute for Advanced Studies and Research

Degree: Doctorate

Course: Economics (cód. 697)

Alternative Plan *** TRANSLATE ME: Percurso com parte escolar ***

1st Year - 1st Semester

Alternative Plan *** TRANSLATE ME: Percurso com parte escolar ***

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|-----------------------------------|-----------------------|------|----------|-------|
| ECN10311D | Microeconomic Analysis I | Economy | 7.5 | Semester | 195 |
| ECN10312D | Macroeconomic Analysis | Economy | 7.5 | Semester | 196 |
| ECN10313D | Econometrics | Economy | 7.5 | Semester | 195 |
| ECN10314D | Seminar on Research Methodologies | Economy | 7.5 | Semester | 194 |

1st Year - 2nd Semester

Alternative Plan *** TRANSLATE ME: Percurso com parte escolar ***

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|------------------|--|-----------------------|------|----------|-------|
| Options 1 | | | | | |
| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
| ECN10320D | Microeconometrics | Economy | 7.5 | Semester | 195 |
| ECN10317D | Macroeconometrics | Economy | 7.5 | Semester | 195 |
| Options 2 | | | | | |
| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
| ECN10316D | Economic Growth | Economy | 7.5 | Semester | 194 |
| ECN7078D | Economic and Social Development | Economy | 7.5 | Semester | 196 |
| ECN10325D | Business Economics | Economy | 7.5 | Semester | 195 |
| ECN10319D | Labour Economics | Economy | 7.5 | Semester | 194 |
| ECN10323D | Monetary Economics and Monetary Policy | Economy | 7.5 | Semester | 194 |
| ECN10322D | Financial Economics | Economy | 7.5 | Semester | 194 |
| ECN10324D | International Economics | Economy | 7.5 | Semester | 194 |
| ECN10321D | Regional Economics | Economy | 7.5 | Semester | 195 |
| Free option | | | | | |



2nd Year - 3rd Semester

Alternative Plan * TRANSLATE ME: Percurso com parte escolar *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

2nd Year - 4th Semester

Alternative Plan * TRANSLATE ME: Percurso com parte escolar *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

3rd Year - 5th Semester

Alternative Plan * TRANSLATE ME: Percurso com parte escolar *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

3rd Year - 6th Semester

Alternative Plan * TRANSLATE ME: Percurso com parte escolar *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

4th Year - 7th Semester

Alternative Plan * TRANSLATE ME: Percurso com parte escolar *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

4th Year - 8th Semester

Alternative Plan * TRANSLATE ME: Percurso com parte escolar *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

Alternative Plan * TRANSLATE ME: *****

1st Year - 1st Semester

Alternative Plan * TRANSLATE ME: *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|-----------------------------------|-----------------------|------|----------|-------|
| ECN10314D | Seminar on Research Methodologies | Economy | 7.5 | Semester | 194 |
| Thesis | | | | | |

1st Year - 2nd Semester

Alternative Plan * TRANSLATE ME: *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

2nd Year - 3rd Semester

Alternative Plan * TRANSLATE ME: *****

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |



2nd Year - 4th Semester

Alternative Plan *** TRANSLATE ME: ***

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

3rd Year - 5th Semester

Alternative Plan *** TRANSLATE ME: ***

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

3rd Year - 6th Semester

Alternative Plan *** TRANSLATE ME: ***

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

4th Year - 7th Semester

Alternative Plan *** TRANSLATE ME: ***

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

4th Year - 8th Semester

Alternative Plan *** TRANSLATE ME: ***

| Component code | Name | Scientific Area Field | ECTS | Duration | Hours |
|----------------|------|-----------------------|------|----------|-------|
| Thesis | | | | | |

Conditions for obtaining the Degree:

*** TRANSLATE ME: PLANO COM CURSO DE DOUTORAMENTO: {\ }newline

{\ }newline

Para aprovação na componente curricular neste plano deste programa de doutoramento é necessário a aprovação (através de avaliação ou creditação) das seguintes unidades curriculares: {\ }newline

{\ }newline

1.º Semestre: {\ }newline

4 UC Obrigatórias num total de 30 ECTS {\ }newline

{\ }newline

2.º Semestre: {\ }newline

{\ }newline

1 UC optativa dos Grupos 1, num total de 7.5 ECTS {\ }newline

UC's optativas do Grupo 2, num total de 22.5 ECTS podendo uma delas ser do tipo Livre

{\ }newline

Para obtenção do grau, é necessário a aprovação da Tese com o total de 180 ECTS no 2.º, 3.º e 4.º Ano {\ }newline

{\ }newline

PLANO TUTORIAL: {\ }newline

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Para obtenção do grau, é necessário a aprovação na UC do 1.º semestre com 7,5 ECTS e na Tese ***

Program Contents



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Microeconomic Analysis I (ECN10311D)

1. Introductory Topics: individual decisions (consumers and firms - duality)
2. Market Equilibrium: competitive markets (Pareto optimality and welfare analysis)
3. Game Theory: modeling the strategic interaction between decision makers; static and dynamic games, incomplete and complete information
4. Market failure. Externalities and public goods. Asymmetric information (moral hazard and incentives, adverse selection and signaling)

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Macroeconomic Analysis (ECN10312D)

- 1- The long run: from neoclassical growth models to the endogenous growth.
- 2- The business cycles: the new Keynesian economics and the Theory of Real Business Cycles.
- 3 ? Government deficit and public debt stabilization. the Ricardian equivalence debate.
- 4- The labor market, the Phillips curve debate and the dynamic aggregate supply
- 5- Demand management policies in a open-economy framework.
- 6- The microeconomic foundations
- 7- New frontiers for macroeconomics

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Econometrics (ECN10313D)

- I. Topics on Linear Regression: Estimation and Specification Analysis; Endogenous Regressors; Instrumental Variables; Generalized Method of Moments.
- II. Discrete and Limited Dependent Variable Models: Discrete Choice Models; Count Data Models; Fractional Regression Models; Tobit Models; Sample Selection Models.
- III. Panel Data Models: Fixed and Random Effects Models; Specification Analysis.
- IV. Time Series Models: ARMA Processes; Nonstationarity Series; Unit roots; Cointegration; Vector Autoregressive Models; ARCH models.
- V. Introduction to Simulation Methods: Monte Carlo; Bootstrap.

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Seminar on Research Methodologies (ECN10314D)

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Microeconometrics (ECN10320D)

- Introduction: Microeconometric data, Data Issues, Specification Analysis
- Advanced topics in Models for Limited and discrete dependent variables: Multinomial Models, Ordered choice Models, Endogeneity, Choice Based Models,
- Advanced topics in Panel Data Models: Dynamic Models, Nonlinear Models.
- Duration Analysis: Parametric and semiparametric models. Continuous time models and discrete time models.
- Spatial Econometrics: Spatial dependence and spatial heterogeneity. Spatial autocorrelation statistics. Spatial regression models.
- Policy Evaluation Methods: Natural and Social Experiences, Differences in Differences Methods, Matching.



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Macroeconometrics (ECN10317D)

1. Univariate Time Series Models.
2. Multivariate Time Series Models.
3. ARCH and GARCH Models.
4. Multi-Factor Models.
5. Models for Long Memory Stochastic Processes.
6. Simulation Methods.
7. Empirical Examples.

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Economic Growth (ECN10316D)

- I - First Generation Endogenous (R&D) Growth Models
- II - Second Generation Endogenous (R&D) Growth Models
- III - Third Generation Endogenous (R&D) Growth Models
- IV - Fourth Generation Endogenous Growth Models
- V - Is the Modern Economy investing sufficiently in R&D? Optimality of Investments in R&D in 2nd-4th Generation R&D Models
- VI - Unified Growth Theories
- VII - Open Economy and Economic Growth Models
- VIII- Sustainability and Economic Growth
- IX - Economic Growth Empirics



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Economic and Social Development (ECN7078D)

MASTERS and DOCTORATE IN ECONOMICS{\}

UNIVERSITY OF ÉVORA{\}

PROGRAM 2011-2012

ECONOMIC AND SOCIAL DEVELOPMENT

Assistant Professor, PhD: Miguel Rocha de Sousa{\}

Gab. 256, email: mrsousa@uevora.pt or miguelrochasousa@uevora.pt

{\}

PROGRAM{\}

1.Introduction: Definition of economic development. Poverty and social exclusion. The indices of the World Bank (other HDI, GPI). Welfare relative and absolute. Equity and efficiency. Poverty, malnutrition and famine. 2nd. Analysis of economic behavior in developing 2i) theories: Households and development. The land market: a key issue. Credit and rural markets: micro-credit and fragmented markets. Human capital and income distribution. Reducing poverty: efficiency and equity. Technical progress in learning and development. Environment 2ii) empirical applications: Human capital. Property rights and incentives. The case of African development. 3rd. Some examples of public policy development. The role of the state, the market and the development of International Organizations. 4th. The role of institutions in economic development process: and Freedoms guarantees as constituent elements of economic development. The political and economic factor in development. The theory of the firm, transaction costs and endogenous development. Other approaches institutionalists development. Culture and development. Limitations of the economic analysis of development

Detailed Program{\}

One. Introduction: Definition of economic development: {\}

Poverty and social exclusion. The indices of the World Bank. Welfare relative and absolute. Equity and efficiency. Poverty and malnutrition. Poverty and Famines. {\}

Bib: [G], [R, Cap.2, 6,7,8], [S1]

2nd. Topics in Microeconomics development {\}

2i) micro Theories: {\}

Households and development [BU1, Cap.2]{\}

The land market: a key issue. [BA caps 11,12], [BU2, Cap.2, 3, 12]{\}

Credit and rural markets: micro-credit and fragmented markets. {\}

[BA caps.13, 14] [BE cap.15], [BU1, and caps.6 7], [Y1, Y2]{\}

Human capital and income distribution. [BU1, cap.10, BU2, cap.5]{\}

Reducing poverty: efficiency and equity. [BU1, cap.11]{\}

Technical progress in learning and development. [BU1, Chap.12]{\}

Development and Environment. [BU1, ch. 13], [G, cap.15]

2ii) Applications micro-empirical {\}

The human capital. [BU3, caps.2, 11]{\}

Property rights and incentives. [BU3, Chap.12]{\}

The case of African development. [TR]

3rd. Some examples of public policy development {\}

3.1. Taxes and fiscal theory [BE cap. 4,5]{\}

3.2. International trade: free trade, and development practices. {\}

[BE caps.1, 2,3]

{\}

4th. The role of institutions in economic development process {\}

Freedoms and guarantees as constituent elements of economic development. Accountability. The political and economic factor in development. [S2, S3]. {\}

The theory of the firm, transaction costs and endogenous development {\}

[YA, chaps. 8,9,10]{\}

The neo-institutionalist approach to economic development. [N1, N2]{\}

Limitations of the economic analysis of development [BA, cap.15, BR]



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Business Economics (ECN10325D)

- 1- Introduction to Energy Economics
- 2- Energy sources: non-renewables vs renewables
- 3- Economics of fossil fuels
- 4- Economics of renewables
- 5- Energy dependency, climate change, and energy policy
- 6- Regulation in the energy industry
- 7- Energy markets and electricity markets
- 8- Energy demand analysis
- 9- Energy consumption and economic growth
- 10- Energy elasticity
- 11- Economic analysis of Energy Investments
- 12- Security of supply and risk analysis

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Labour Economics (ECN10319D)

Labour Supply and Demand Behaviour. Education and Human Capital. Compensating wage differentials. Wage inequality. Labour market discrimination. Contracts and Work incentives. Collective Bargaining. Unemployment. Labour Market Policies.

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Monetary Economics and Monetary Policy (ECN10323D)

Money: nature and functions; the processes of money supply and demand; objectives and instruments of monetary policy; The theory of interest rates; the foreign exchange market and the international monetary system; The coordination of monetary and fiscal policies; The new challenges of monetary policy and the functional redefinition of central banks.

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Financial Economics (ECN10322D)

1. Portfolio theory: The problem of selection of investment portfolios, the efficient frontier and investor choice under uncertainty.
2. Equilibrium models of capital markets: CAPM - Capital Asset Pricing Model, Model Market Index; APT - Arbitrage Pricing Theory; efficiency of markets, empirical tests of equilibrium models.
3. Analysis and evaluation of action: models of dividends, the approach of the discounted free cash flows, relative valuation.
4. Rating of bonds; temporal structure of interest rates: definition, direct and indirect methods of estimation, equilibrium models and arbitrage, risk management, interest rate, hedging strategies and immunization simple-factor and multifactor models, risk credit
5. Valuation of financial derivatives, discrete time models (binomial model), replicating and Portfolio Risk neutral valuation, continuous time models, stochastic processes, PDE fundamental dynamic hedging

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International Economics (ECN10324D)

1. The main trends of international trade and international investments;
2. Theoretical foundations of international specialization: from comparative advantage to competitive advantage;
3. Intra-industrial trade: typology, measurement and determinants;
4. Economic Geography Models: industrial location and international trade flows;
5. International trade in economic growth models;
6. Instruments of trade policy and their impact on trade;
7. Strategic trade policy in the contexts of globalization and of regional integration;
8. The institutional dynamics of the International Trade System for goods and services;
9. International mobility of production factors: relevant theoretical frameworks;
10. Determinants and impacts of foreign direct investments (FDI);
11. The role of multinational corporations in the trade patterns of developed and developing countries.



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Regional Economics (ECN10321D)