DOCTORAL PROGRAMME IN ECONOMICS

2022-2023

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1. Objectives and Purposes

1.1 Welcoming Message

The PhD Programme in Economics aims to endow doctoral students with advanced and thorough scientific education in Economics, enabling them to conduct high-level research and perform professional work involving reliable and demanding economic analysis.

Since the academic year of 2009/2010, the programme has been jointly offered by the Faculty of Economics at the University of Coimbra (FEUC) and the Department of Economics, School of Economics and Management at the University of Minho (EEG-UM).

The PhD programme relies on the use of the best human resources available in the two universities, in the fields of research and advanced education. Its quality rests upon a highly educated faculty holding doctoral degree awarded by prestigious European and American universities and whose research excellence is documented by a large number of publications in international scientific journals. The academic calendar has been designed in order to facilitate and encourage mobility of students between the two partner institutions. Many complementary activities are offered to students, including advanced training courses in specialized topics, conferences and seminars, hence contributing to the enhancement and refinement of their general and specific skills. Students are also offered the opportunity to participate in other research and training activities organized by both universities.

The programme aims at offering students a high quality educational experience, whilst effectively preparing them for an active life in an increasingly globalised world. If you are looking for an education embodying such characteristics, we are sure that the Ph.D. in Economics is an excellent choice.

Executive Board

Universidade de Coimbra

Paulino Teixeira (Head) Tiago Sequeira

Universidade do Minho

Rosa Branca Esteves (Head) Miguel Portela

1.2 Partner Institutions: FEUC and EEG-UM

Th Faculty of Economics of the University of Coimbra (FEUC) and the School of Economics and Management of the University of Minho (EEG-UM) together have more than 60 researchers working in a large spectrum of areas of Economics.

In Coimbra, most faculty members undertake their research activities in the Center for Business and Economics Research (CeBER-UC). At the University of Minho (U Minho), scientific research is developed within the framework of the Economic Policy Research Unit (NIPE-UM). Both research units were awarded a grade of Very Good in the last evaluation by the Foundation for Science and Technology (FCT). Should you require further information, please visit the following websites:

CeBER - http://www.uc.pt/en/uid/ceber

NIPE - https://www.eeg.uminho.pt/pt/investigar/nipe

The international training of FEUC and EEG-UM faculty is reflected in a large number of joint projects with foreign scholars, in publications in international journals with peer review, in seminars with the participation of both national and international scholars, and in the success of the Spring/Summer schools that have been attracting researchers and doctoral students from other institutions.

Both institutions have excellent research facilities and conditions, including laboratories for PhD students, and also provide access to a wide range of databases and software. For detailed information, we suggest that you search the web of the data laboratory of CeBER and of the Research Support Office of EEG-UM.

2. Doctoral Programme

2.1 Study Plan

	Course Unit			ECTS
1st Year				60
	Advanced Econometrics I	1 st Sem.	Compulsory	7.5
	Advanced Macroeconomics I	1 st Sem.	Compulsory	7.5
	Advanced Microeconomics I	1 st Sem.	Compulsory	7.5
	Mathematical Economics	1 st Sem.	Compulsory	7.5
	Advanced Econometrics II	2 nd Sem.	Elective	7.5
	Advanced Macroeconomics II	2 nd Sem.	Elective	7.5
	Advanced Microeconomics II	2 nd Sem.	Elective	7.5
	Computational Methods Applied to Economics	2 nd Sem.	Elective	7,5
	Advanced Option in Economics I	2 nd Sem.	Elective	7.5
	Advanced Option in Economics II	2 nd Sem.	Elective	7.5
2nd Year				60
	Thesis Project	1 st Sem.	Compulsory	15
	Thesis	1 st Sem.		15
	Thesis	2 nd Sem.		30
3rd Year				60
	Thesis			60
4th Year				60
	Thesis			60

The Programme includes attendance of classes and seminars, as well as writing and defending a final dissertation. The taught part is composed of mandatory (30 ECTS) and optional (30 ECTS) units of study, in which the first semester of the first year consists only of mandatory units of study. The dissertation project will be submitted in the 3rd semester and the following semesters will be dedicated to writing a doctoral dissertation.

Course Units – 1st Year

COURSE UNIT: MATHEMATICAL ECONOMICS

Semester: 1st

TIPOLOGY: Compulsory

Professor Cristina Amado (U Minho)

Professor Tiago Sequeira (U Coimbra)

Syllabus:

- 1. Topics in linear álgebra
- 2. The Rn Space and Multivariable Calculus
 - a. Topology in Rn space
 - b. Multivariable Calculus
 - c. Static Optimization
 - d. Correspondences and Fixed Point Theorems
- 3. Differential and Difference Equations and Systems
- 4. Dynamic optimization
 - a. Calculus of Variations
 - b. Control Theory
 - c. Dynamic Programming

Learning Outcomes:

- 1. Calculate determinants, determine eigenvalues, evaluate the properties of matrices, and interpret the meaning of the possible results.
- Calculate limits and describe the properties of successions. Describe and evaluate the properties of sets. Apply differential calculus to the study of real functions. Demonstrate particularly important theorems.
- Solve optimization problems. Discriminate and relate several optimizations methods. Integrate concepts of linear algebra in the resolution of optimization problems. Plan and justify the choice of optimization methods for the resolution of concrete problems.
- 4. Examine discrete and continuous dynamic systems, relating them with concepts of linear algebra and real calculus. Analyse the properties of systems selecting the adequate methods of analysis.
- 5. Describe and apply techniques of dynamic programming in the resolution of problems of dynamic optimization. Evaluate their use in the resolution of economic problems.

COURSE UNIT: ADVANCED MICROECONOMICS I

Semester: 1st

TIPOLOGY: Compulsory

Professor Odd Straume (U Minho)

Professor Paulino Teixeira (U Coimbra)

Syllabus:

- 1. Consumer theory: preferences, indirect utility and expenditure functions; Marshallian and Hicksian demand functions; duality; revealed preferences
- 2. Producer theory: technology; production and cost functions; duality
- 3. Partial equilibrium
- 4. General equilibrium. Walras' Law
- 5. Welfare theorems. Pareto efficiency. Edgeworth diagrams. Social welfare functions
- 6. Externalities and public goods. The Coase theorem. Pigouvian taxes
- 7. Choice under uncertainty
- 8. Economics of information: adverse selection and moral hazard

Learning Outcomes:

- 1. Understand the modern microeconomic literature.
- 2. Perform either empirical or theoretical analysis in either a professional or academic environment

COURSE UNIT: ADVANCED ECONOMETRICS I

Semester: 1st

TIPOLOGY: Compulsory

Professor Miguel Portela (U Minho)

Professor Pedro Cerqueira (U Coimbra)

Syllabus:

- 1. Ordinary Least Squares (OLS):
 - a. Numerical properties
 - b. Statistical Properties.
 - c. Heteroskedasticity and Autocorrelation.
 - d. Hypothesis testing
 - e. Asymptotic results
- 2. Endogeneity, instrumental variables and generalized method of moments
- 3. Maximum likelihood estimation
- 4. Panel data models

Learning Outcomes:

- 1. To name the main assumptions of each estimation method. To describe the main properties of each method.
- 2. To prove the main properties and theorems.
- 3. To identify the correct econometric approach to the different empirical economic analyses.

- 4. To develop strategies that can adjust the theoretical models to real data applications.
- 5. To apply econometric methods to economic data.

COURSE UNIT: ADVANCED MACROECONOMICS I

Semester: 1st TIPOLOGY: Compulsory

Professors Francisco Veiga and Luis Aguiar-Conraria (U Minho)

Professors Tiago Sequeira and Pedro Bação (U Coimbra)

Syllabus:

- 1. Neoclassical theory of economic growth: the Solow model
- 2. The Ramsey-Cass-Koopmans model
- 3. Diamond overlapping-generations model
- 4. Real business cycle models
- 5. Traditional Keynesian theories of fluctuations
- 6. Microeconomic foundations of nominal rigidity
- 7. Inflation and monetary policy
- 8. Budget deficits and fiscal policy.

Learning Outcomes:

- 1. Describe Solow's economic growth model and evaluate its capacity to answer central issues of economic growth analysis.
- 2. Evaluate the implications of endogenizing savings decisions, namely the effects of changes in the savings rate, to economic policy in Ramsey-Cass-Koopmans' and Diamond's models.
- 3. Identify and describe the main forms of nominal and real rigidity which are the source of gradual price and wage adjustment, and their role in the explanation of economic fluctuations and stabilization policies.
- 4. Describe the relation between money supply, inflation and interest rates, and identify the causes and effects of budget deficits.
- 5. Characterize the main monetary policy strategies, evaluating the implications of the rational expectations hypothesis and the conditions under which there may be problems of dynamic inconsistency.
- 6. Compare and criticize the models studied and select those that are best suited to the issues analyzed.

COURSE UNIT: ADVANCED ECONOMETRICS II

Semester: 2nd

TIPOLOGY: Compulsory

Professor Pedro Cerqueira (U Coimbra)

Professors Miguel Portela, Cristina Amado and Natália Monteiro (U Minho)

Syllabus:

- 1. Non-linear regression model
- a. The method of moments (MM)
- b. MM versus non-linear least squares (NLS)
- c. The Gauss-Newton-Regression (GNR)
- d. Inference
- 2. Maximum likelihood estimation
- a. Basic concepts
- b. Estimators properties
- c. Asymptotic distributions
- d. Testing
- 3. Discrete and limited dependent variables
- a. Binary choice models
- b. Models for count data
- c. Models for censored and truncated data
- d. Estimation and inference
- 4. Methods for time-series data
- a. Stationary versus non-stationary time series
- b. Unit root tests
- c. Cointegration
- d. Cointegration tests
- 5. Bayesian Econometrics
- a. Bayesian estimation methods
- b. State-space models
- c. Simulation methods

Learning Outcomes:

- 1. To master a set of theoretical results related to the models and estimation methods used in Econometrics, and be able to adapt those to the problem in hand.
- 2. To identify, interpret and discuss the main characteristics of Time Series Analysis.
- 3. To identify, interpret and discuss the main characteristics of Dynamic Panel Data modelling.

COURSE UNIT: ADVANCED MACROECONOMICS II

Semester: 2nd

TIPOLOGY: Compulsory

Professor Tiago Sequeira, Pedro Bação, Bruno Albuquerque (U Coimbra)

Professors Fernando Alexandre and Luís Aguiar-Conraria (U Minho)

Syllabus:

- 1. Savings and the current account
- 2. Small open economy models
- 3. The life-cycle model, taxes and the current account
- 4. Models of money
- 5. DSGE models of equilibrium indeterminacy
- 6. Crisis and the great recession

Learning Outcomes:

- 1. Build and analyse open economy models;
 - a. Analyze and discuss the results of those models concerning the gains of openness;
 - b. Identify the implications of different hypothesis concerning the dimension of the economy under analysis;
 - c. Analyze and discuss the consequences of government interventions in those models;
 - d. Analyze open economy models with financial assets under uncertainty.
- 2. Build and analyse DSGE models of with equilibrium indeterminacy
- 3. Build and analyse business cycles models

COURSE UNIT: ADVANCED MICROECONOMICS II

Semester: 2nd

TIPOLOGY: Compulsory

Professor Nuno Silva (U Coimbra)

Professor Odd Straume (U Minho)

Syllabus:

- 1. Static games with complete information
 - a. Normal form games
 - b. Nash equilibrium
 - c. Mixed strategies
- 2. Dynamic games with complete information
 - a. Backwards induction
 - b. Subgame perfection
 - c. Repeated games
- 3. Static games of incomplete information
 - a. Bayesian games
 - b. Bayesian Nash equilibrium
- 4. Dynamic games with incomplete information
 - a. Perfect Bayesian equilibrium
 - b. Signaling games
- 5. Topics in contract theory
 - a. The principal-agent model
 - i. Adverse selection
 - ii. Moral hazard
 - b. Incomplete contracts

Learning Outcomes:

- 1. To interpret and apply in different settings the several definitions and refinements of equilibrium in Game Theory.
- 2. To apply game theory in models of imperfect competition.
- 3. Interpret the recent developments on the theory of the firm, markets and contracts.

COURSE UNIT: COMPUTATIONAL METHODS APPLIED TO ECONOMICS

Semester: 2nd

TIPOLOGY: Compulsory

Professor Carlos Carreira (U Coimbra)

Professor Nuno Azevedo (U Minho)

Syllabus:

- 1. Quantitative macroeconomics
 - a. Real Business Cycles (RBC) models.
 - b. Rational expectations.
 - c. Analysis of Dynamic Stochastic General Equilibrium (DSGE) models.
- 2. Microeconomic dynamic models.
 - a. Models of industrial dynamics.
 - b. Agent Computational Economics (ACE) models.
 - c. Nelson-Winter model.

Learning Outcomes:

- 1. Identify economic problems whose resolution involves the use of numerical methods.
- 2. Computationally implement economic models.
- 3. Apply some classical numerical methods.
- 4. Simulate and evaluate results.

Thesis Project

The thesis project shall be coordinated by:

Paulino Teixeira (FEUC)

Rosa Branca Esteves (EEG-UM).

At the end of the third semester, students are expected to establish in their thesis proposal the research guidelines they will pursue in their doctoral dissertation.

The proposal may be written in Portuguese or English and it must have a maximum length of 15 pages, including references.

As an indication, the proposal should include the following elements:

- Title,

- Summary of 250 words,
- Introduction and motivation (3 pages),
- Literature review (3 pages),
- Proposal development (5 pages),
- Expected results (1 page),

- References (3 pages).

The deadline to deliver the proposal is April 7, 2023.

The oral presentation of the proposal must not exceed 20 minutes. The presentation is followed by a 10-minute-length discussion, maximum. Students must also deliver the supervisors' statement, stating that they are co-responsible for the development of the research work.

The presentation/discussion of the proposal will take place on April 22, 2022. The jury may approve the Thesis Project, suggest changes or reject it, inviting the candidate to reformulate it.

2.3. Faculty

Professor	PhD	Affiliation	Area of specialisation						
Faculty of Economics - University of Coimbra									
Ana Margarida Monteiro	University of Coimbra, Portugal	CeBER-UC	Mathematical Finance						
António Alberto Santos	University of Warwick, U.K.	CeBER-UC	Dynamic Bayesian analysis applied to financial theory						
António Portugal Duarte	University of Coimbra, Portugal	CeBER-UC	International macroeconomics						
Bruno Albuquerque	Ghent University, Belgium	CeBER-UC	Macroeconomics and monetary policy						
Carlos Carreira	University of Coimbra, Portugal	CeBER-UC	Industrial dynamics; productivity						
Eduardo Barata	Keele University, U.K.	CeBER-UC	Ecological economics; input-output analysis						
Hélder Sebastião	Lancaster University, U.K.	CeBER-UC	Financial futures and options						
José Fuinhas	Universidade da Beira Interior, Portugal	NECE-UBI	Energy economics, monetary economics; financial economics						
José Murteira	University of Coimbra, Portugal	CeBER-UC, CEMAPRE- UTL	Econometrics						
Luís Cruz	Keele University, U.K.	CeBER-UC	Ecological economics; input-output						

			analysis
Maria Rita Martins	University of Coimbra, Portugal	CeBER-UC	Industrial economics; regulation
Marta Simões	University of Coimbra, Portugal	CeBER-UC	Economic growth; human capital
Nuno Silva	NOVA School of Business and Economics, Portugal	CeBER-UC	Financial markets and optimal asset allocation
Óscar Lourenço	University of Coimbra, Portugal	CeBER-UC, CEIS-UC	Health economics; applied microeconometrics
Paulino Teixeira	University of South Carolina, U.S.A.	CeBER-UC, IZA	Labour economics
Pedro Bação	Birkbeck College, University of London, U.K.	CeBER-UC	Macroeconomics
Pedro Cerqueira	European University Institute, Italy	CeBER-UC	International Macroeconomics and Business Cycles
Pedro Godinho	University of Coimbra, Portugal	CeBER-UC	Real options analysis, project analysis and evaluation
Rodrigo Martins	University of Coimbra, Portugal	CeBER-UC	Business Cycles; Political Cycles; Electoral behaviour
Tiago Sequeira	NOVA School of Business and Economics, Portugal	CeBER-UC	Economic growth; Business cycles

Professor	PhD	Affiliation	Area of specialization							
Sci	School of Economics and Management – University of Minho									
Ana Paula Faria	University of Nottingham, UK	NIPE-UM	Economics of innovation							
Carla Sá	Tinbergen Institute/ Vrije Universiteit, Holanda	NIPE-UM	Labour Economics Economics of Education							
Carlos Costa	University of Orleans, France		Banking Economics							
Cristina Amado	Stockholm School of Economics, Sweden	NIPE-UM	Economic Statistics							
Cristina Matos	EEG, University of Minho, Portugal		Welfare State, Inequalities and Inclusive Societies							
Ermelinda Lopes	EEG, University of Minho, Portugal		Macroeconomics							
Fernando Alexandre	Birkbeck College, University of London, UK	NIPE-UM	Macroeconomis. Portuguese Economy, Monetary and Financial Economics, Social Security							
Francisco Cruz	Oxford University, UK	NIPE-UM	Transport Economics Regional Economics							
Francisco Veiga	University of South Carolina, USA	NIPE-UM	International Monetary Economics Economic Growth Political Economy							
Isabel Correia Dias	EEG, University of Minho, Portugal		Industrial Economics Health Economics							
João Cerejeira	European University Institute, Italy	NIPE-UM	Regional Economics Labour Economics							
Jorge Cerdeira	University of Porto, Portugal	NIPE-UM	Microeconomics,Industrial Organization, Econometrics and International Trade							
José Cadima Ribeiro	University of Minho	NIPE-UM	Regional Economics Tourism Economics							
Lígia Pinto	University of South Carolina, USA	NIPE-UM	Environmental Economics							
Linda G. Veiga	University of South Carolina, USA	NIPE-UM	Political Economy Public Economics / Public Finance							
Luís Aguiar-Conraria	Cornell University, EUA	NIPE-UM	Political Economy Wavelet Analysis Business Cycle Analysis							
Manuel C. Cabral	University of Nottingham, UK	NIPE-UM	International Economics							
Maria Cristina Moreira	University of Navarra, Spain		History Economics							
Maria Helena Guimarães	University of Cincinatti, USA		International Economics							

Maria João Thompson	University of Warwick, UK	NIPE-UM	Economic Growth Macroeconomics		
Maria Lurdes Martins	EEG, University of Minho, Portugal		Information Economics Applied Microeconomics		
Margarida Proença	University of South Carolina, USA		Industral Economics		
Marieta Valente	University College of London, UK		Experimental Economics Environmental Economics		
Miguel Portela	Tinbergen Institute/ U Amsterdam, Netherlands	NIPE-UM	Labour Economics Econometrics		
Natália Barbosa	University of Manchester, UK	NIPE-UM	Industrial Economics Economics of the Firm		
Natália Monteiro	University of Warwick, UK	NIPE-UM	Labour Economics		
Odd Straume	University of Bergen, Norway	NIPE-UM	Industrial Economics		
Orlando Petiz	University of Santiago de Compostela, Spain		Economics of Innovation Social Economics		
Paula Veiga Benesch	University of South Carolina, USA	NIPE-UM	Health Economics Applied Microeconomics		
Paulo Mourão	University of Minho	NIPE-UM	Sports Economics Social Economics		
Priscila Ferreira	University of Essex, UK		Labour Economics Microeconometrics Applied Microeconomics		
Ricardo Santos Sousa	London School of Economics and Political Science, UK	NIPE-UM	Monetary and Financial Economics Empirical Finance and Asset Pricing Monetary and Fiscal Policy Political Economy		
Rita Sousa	NOVA School of Business and Economics, Portugal	NIPE-UM	Energy and Climate Change Economics		
Rosa Branca Esteves	Oxford University, UK	NIPE-UM	Industrial Economics Competition Police and Game Theory		
Silvia Sousa	European University Institute, Italy	NIPE-UM	Labour Economics		

2.4 Thesis Supervision

The doctoral thesis is to be supervised by a professor at FEUC or at the Department of Economics, EEG-UM.

In duly justified cases, co-supervision of the thesis may be admitted. However one of the cosupervisors should be a teacher or researcher (holder of a PhD degree) at FEUC or at the Department of Economics, EEG-UM.

Within 30 days after obtaining approval in all course units of the first three semesters, the applicant must request the Scientific Council approval of her/his thesis project and approval of the supervisor. The application must also deliver a statement issued by the Programme Executive Board approving the thesis proposal and a statement of the supervisor confirming that he/she accepts to supervise the thesis.

Once the supervisor has been appointed, the applicant should proceed to the registration of the subject of the thesis, as well as of the thesis provisional plan.

Students will then be evaluated annually by the Executive Board of the programme, on the basis of their supervisor, or co-supervisors, evaluation.

2.5 Thesis and Doctoral Degree Defense

The thesis can be written in Portuguese or English.

The doctoral thesis must be presented in accordance with the legislation and regulations in force in each one of the participating institutions.

The jury of the doctorate final examination is proposed by the Executive Board of the Programme to the Rector, in accordance with the regulations and laws in force.

Candidates who complete the Doctoral Programme, will be awarded a Doctoral Degree Diploma.

2.6 Ph.D. Student Workshop

Every year, a Ph.D. students workshop is organized. The workshop is open to students from Portuguese and foreign universities, and consists of presentations of papers by Ph.D. students followed by a discussion, also by Ph.D. students. The language of work is English and sessions take place at the School of Economics and Management of the University of Minho.

Participating in the workshop is important for receiving comments and suggestions to the research being implemented, improving students' presentation and reviewing skills, and for networking. Each year, students are also invited to participate in the event's organizing committee.

3. Functioning

3.1 Venues

During the first year of the programme, a school semester takes place at the University of Coimbra and the other one at the University of Minho. In 2021/22, the first semester will be offered at the University of Minho and the second at the University of Coimbra.

The third semester is offered in an articulated regime at the two universities.

3.2 Calendar and timetable PhD Economics - 2022/2023

1st semester - University of Coimbra

16/09/2022	23/09/2022	30/09/2022	07/10/2022	14/10/2022	21/10/2022	28/10/2022	04/11/2022	11/11/2022
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Lesson 8	Final Test
Advanced								
Microeconomics I								
11h-12h30	14h-17h							
13h15-14h45								
Lesson 1	Lesson 2	Lesson 3	Lecture 4	Lesson 5	Lesson 6	Lesson 7	Final Test	
Mathematical								
Economics								
15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h	14h-17h	

18/11/2022	25/11/2022	02/12/2022	09/12/2022	16/12/2022	06/01/2023	13/01/2023	20/01/2023	27/01/2023
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Lesson 8	Final Test
Advanced								
Econometrics I								
11h-12h30	14h-17h							
13h15-14h45								
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Final Test	
Advanced								
Macroeconomics								
1	1	1	1	1	1	1	1	
15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h15	15h00-18h	14h-17h	

02/02/2023	03/02/2023	09/02/2023	10/02/2023
Exam	Exam	Exam	Exam
Mathematical	Advanced	Advanced	Advanced
Economics	Macroeconomics I	Microeconomics I	Econometrics I
14h-17h	14h-17h	14h-17h	14h-17h

2nd semester - University of Minho (Braga)

17/02/2023	24/02/2023	03/03/2023	10/03/2023	17/03/2023	24/03/2023	31/03/2023	14/04/2023
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Final Test
Advanced							
Microeconomics II							
10h30-12h30	10h30-12h30	10h30-12h30	10h30-12h30	10h30-12h30	10h30-12h	10h30-12h30	14h-17h
13h15-14h45	13h15-14h45	13h15-14h45	13h15-14h45	13h15-14h45	Lesson 6	13h15-14h45	
Lesson 1	Lesson 2	Lesson 3	Lecture 4	Lesson 5	Computational	Final Test	
Computational	Computational	Computational	Computational	Computational	Methods	Computational	
Methods	Methods	Methods	Methods	Methods	13h15-18h15	Methods	
14h45-18h15	14h45-18h15	14h45-18h15	14h45-18h15	14h45-18h15		14h-17h	

21/04/2023	28/04/2023	05/05/2023	12/05/2023	19/05/2023	26/05/2023	02/06/2023	09/06/2023
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Final Test
Advanced							
Macroeconomics II							
10h30-12h30	10h30-12h30	10h30-12h30	10h30-12h30	10h30-12h30	10h30-12h	11h-12h30	14-17h
13h15-14h45	13h15-14h45	13h15-14h45	13h15-14h45	13h15-14h45	Lesson 6	13h15-14h45	
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Advanced	Final Test	
Advanced	Advanced	Advanced	Advanced	Advanced	Econometrics II	Advanced	
Econometrics II		Econometrics II					
14h45-18h15	14h45-18h15	14h45-18h15	14h45-18h15	14h45-18h15	13h15-18h15	14h-17h	

15/06/2023 16/06/2023		22/06/2023	23/06/2023
Exam	Exam	Exam	Exam
Computational	Advanced	Advanced	Advanced
Methods	Microeconomics II	Econometrics II	Macroeconomics II
14h-17h	14h-17h	14h-17h	14h-17h

3.3 Language of Instruction

Portuguese and English.

Unless all students are fluent in Portuguese, the language of instruction will be English. Students whose mother tongue is Portuguese can do exams in Portuguese. All faculty members are fluent in Portuguese and in English.

3.4 E-learning Platforms

Information circulates through the e-learning platforms of both Universities. Regardless of where the student enrolls, they will have access to platforms headquartered in both institutions.

At the University of Coimbra, the access is made through the site https://inforestudante.uc.pt/nonio/security/init.do).

At the University of Minho, the access is made through the site (https://elearning.uminho.pt/ webapps/login/), using the student number.

3.5 Libraries, Databases and Software

Students will have access to the libraries, software and databases subscribed by both universities.

At the Faculty of Economics of the University of Coimbra, students will receive administrative support from the School of Advanced Studies (Escola de Estudos Avançados, http://www.uc.pt/feuc/eea, eea@fe.uc.pt) and from CeBER (http://www.uc.pt/en/uid/ceber, ceber@uc.pt). Databases are housed in CeBER and in FEUC's library (http://www.uc.pt/feuc/biblioteca). Through the University of Coimbra's network, students can access a wide range of digital resources (http://www.uc.pt/sibuc).

At U Minho, the Research Support Office (GAI) is the umbrella for all the EEG-UM's Research Units. Hence, it seeks to ensure the following activities:

- The coordination of research activities in order to foster interdisciplinary research initiatives and to apply for external funding of infrastructure or large interdisciplinary programs;

- The institutional representation of the School's Research Units;

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- Databases management;

In the GAI's website students may find all the scientific publications produced by the school's researchers as well as have access to all the databases available: https://www.eeg.uminho.pt/

The University Library provides excellent access to bibliographic databases and data, as well as to books adopted as bibliography for the different course units. The library provides for individual and group study rooms.

Students can access to much of the Library digital resources consulting the catalog and making books' reservations at http://www.sdum.uminho.pt/.

3.6 Study Rooms and Computer Labs

In Coimbra, PhD students have exclusive access to a dedicated room located on level 4 of the Research Building (*Sala de Doutorandos*). This large room has two divisions, one equipped with computers, the other providing desk space for students wishing to read, write or use their laptops.

PhD Students have a room at the EEG-UM – Room 1.34 (Sala de Doutorandos).

The Economics Department of the EEG-UM has a computer lab headquartered. Please ask for the key to Susana Figueiredo (GAI). The UM has two major computer labs, one in the Pedagogical Complex I (*Complexo Pedagógico I*) whose working hours are from 08:00 to 22:00 and another in the Pedagogical Complex II (*Complexo Pedagógico II*) from 08:00 to 23:30.

3.7 Administrative Services Contacts

UNIVERSIDADE DE COIMBRA

Alexandra Sousa (eea@fe.uc.pt) Escola de Estudos Avançados Faculdade de Economia Av. Dias da Silva, 165 3004-512 COIMBRA Portugal Phone.: 239 790 501 E-mail: eea@fe.uc.pt

UNIVERSIDADE DO MINHO

Maria José Lage (mjlage@eeg.uminho.pt) Escola de Economia e Gestão Conselho Pedagógico Campus de Gualtar 4710-057 Braga Portugal phone.: 253 604 516 E-mail:doutoramentos@eeg.uminho.pt

3.8 Merit Awards and Opportunities for collaboration at FEUC and EEG-UM

In the context of the activities developed at FEUC and EEG-UM, and their research units (CeBER and NIPE), there are opportunities for collaboration for PhD students. Students may also be invited for teaching activities.

Should there be available financial funds, the Executive Board of the Doctoral Programme will support the participation of students who are working on their thesis, in prestigious international conferences and in advanced courses of short duration.

3.9 Scholarships and Prizes Awarded by Other Institutions

The FCT opens an annual contest for the award of Ph.D. scholarships. The deadline for submitting applications is usually in February /March.

Further information can be found at https://www.fct.pt.

The Ordem dos Economistas (Portuguese professional association of economists) awards, annually, a prize for the best Ph.D. thesis (Prize António Simões Lopes).

The Prize Mendes Pinto is awarded annually by the Association of Portuguese Speaking Universities (AULP). It distinguishes a master or doctoral thesis that contributes to the approximation of Portuguese speaking communities.

CRUP's Integrated Actions are joint programs for enhancing scientific cooperation, through the exchange of faculty and researchers, between Portugal and other countries.

3.10 Internationalisation

Students are strongly encouraged to study at least one academic semester in a foreign University.

For its part, the University of Coimbra has student exchange protocols in the area of Economics with about one hundred universities around the world (Europe, America, Africa and Asia). There are, in particular, very close links within the Coimbra Group, a long-established network of highly ranked European Universities, and also within the "Grupo de Coimbra de Universidades Brasileiras", a partnership between the University of Coimbra and the most prestigious Brazilian public universities. The latter has enabled FEUC to receive foreign doctoral students for a period of typically one year (or one semester). There are also foreign students enrolled in the PhD program who have scholarships funded through ERASMUS mundus consortiums, mostly from Argentina and Chile. The Administrative Head Office of the Internationalisation Mobility and Exchange Programmes is Margarida Isabel Santos (intfeuc@fe.uc.pt; phone: 351 239 790 506/516;

http://www.uc.pt/feuc/internacionalizacao/).

For its part, the EEG-UM holds a wide range of student exchange agreements with foreign institutions. The International Relations Office (www.gri.uminho.pt) of the University of Minho concentrates and provides all the necessary information to students who wish to study abroad. You can also look for information in the Office for International Mobility Programmes (PMI) headquartered at the EEG-UM and contact Estela Vieira estelav@eeg.uminho.pt | Office EEG -1.06 | Telephone: 253 601 904.

3.11 Accommodation

Students enrolled at FEUC can apply for accommodation at the Welfare Services of the University of Coimbra (SASUC) directly (gabadmin@sas.uc.pt). UC provide accommodation in university residences located in the three university campuses, nearby the Faculties, Research Centres and other study facilities. The residences are furnished and equipped; there is weekly laundry service of bed clothing and bathroom towels, offering students great comfort and safety. Learn more at https://apps.uc.pt/accommodation?locale=en.

Students enrolled at U Minho can apply for accommodation at the Halls of Residence. They should contact the Social Services (alojamento@sas.uminho.pt) directly. In Braga, the Halls of Residence offer single and double rooms. Apart from university housing, Braga has an extensive private accommodation offer. Upon arrival at U Minho, a list of rooms/apartments available can be obtained at the Students' Support Office (Gabinete de Apoio ao Aluno).

3.12 Tuition Fees

The attendance of the Doctoral Programme is subject to the payment of tuition fees and the amount shall be equal in both institutions and established by mutual agreement.

During the course work of the Doctoral Programme, students may enroll in any of the universities (University of Coimbra or University of Minho).

After the approval of the thesis project, each student will register in the respective Advisor's University.

3.13 Other Information

Should you require more information, please do resort to the websites http://www.uc.pt/feuc/ https://www.eeg.uminho.pt, or contact us by email (eea@fe.uc.pt and PhD-econ@eeg.uminho.pt).