



## Teaching Guide

Identifying Data					2024/25
Subject (*)	Advanced macroeconomics	Code		611532029	
Study programme	Máster Universitario en Economía				
Descriptors					
Cycle	Period	Year	Type	Credits	
Official Master's Degree	2nd four-month period	First	Optional	3	
Language	Spanish				
Teaching method	Hybrid				
Prerequisites					
Department	Economía				
Coordinador	Currais Nunes, Luis Claudio	E-mail	luis.currais@udc.es		
Lecturers	Currais Nunes, Luis Claudio	E-mail	luis.currais@udc.es		
Web					
General description	O obxectivo deste curso é estudar algúns dos principais modelos da macroeconomía dinámica moderna. Os obxectivos específicos son ensinar os instrumentos de análise económico para aplicalos a cuestións claves do crecemento económico. As cuestións que se analizarán son (i) causas do crecemento sostido da renda percápita dos países; (ii) determinantes das diferencias en renda percápita mantidas entre países; (iii) efectos das políticas gubernamentais en ditos contextos; (iv) estudo dos principais modelos de crecemento económico en horizonte infinito e finito.				

## Study programme competences / results

Code	Study programme competences / results
A2	CE2 - Conocimiento riguroso de los modelos micro y macroeconómicos y su aplicación precisa a situaciones concretas.
A5	CE5 - Capacidad para defender argumentos económicos con claridad y precisión tanto en el entorno habitual de trabajo, como en reuniones científicas nacionales e internacionales.
A6	CE6 - Plantear con suficiente precisión y rigor un proyecto de investigación en economía.
A9	CE9 - Elaborar informes económicos coyunturales y estudios orientados a analizar y predecir el comportamiento de corto plazo de la economía y sus efectos sobre sectores y mercados específicos.
B6	CG1 - Aplicar los conocimientos de economía a la identificación, previsión y solución de los problemas económicos en general, y en particular los relativos al nivel de especialización, en entornos nuevos o poco conocidos.
B7	CG2 - Capacidad de concebir, diseñar y poner en práctica un proceso sustancial de investigación en el campo de la economía en general, y en particular en sus áreas de especialización, con rigor académico.
B8	CG3 - Capacidad para realizar un análisis crítico, evaluación y síntesis de ideas nuevas y complejas.
C2	CT2 - Capacidad para comunicarse por oral e por escrito en lengua gallega.
C6	CT6 - Capacidad de gestión de la información.
C7	CT7 - Capacidad para comunicarse por oral y por escrito en lengua inglesa.
C8	CT8 - Capacidad para trabajar en un contexto internacional.
C9	CT9 - Destrezas para investigar.

## Learning outcomes

Learning outcomes	Study programme competences / results		
Know the main dynamic macroeconomic models.	AC2	BC6	CC2
	AC5	BC7	CC6
	AC6	BC8	CC8
	AC9		CC9



Solve, calibrate and simulate dynamic macroeconomic models.	AC2 AC6 AC9	BC6 BC7 BC8	CC2 CC6 CC7 CC8 CC9
Having a proactive attitude, the ability to work in a group, the acquisition of responsibilities, as well as the ability to argue and express oneself coherently both in the elaboration of a written text and in the public presentation of the results of a specific study.	AC5 AC6	BC8	CC2 CC6 CC7 CC8 CC9

Contents	
Topic	Sub-topic
1. The Ramsey-Cass-Koopmans model. Dynamic optimization	- The model of producer families - The solution with competitive markets - The dynamics of the economy
2. Overlapping generations models	- Hypothesis of the model - Behavior of households and companies - The dynamics of the economy
3. The AK model	- The model of producer families - The utility function and the maximization problem - The dynamics of the transition
4. The AK model and the fiscal policy	- The model of producer families - The relationship between the size of the state and the growth rate - The economics of the central planner and optimal growth
5. The Romer model	- The model of producer families - The market economy model - The effects of scale and the increasing returns

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A2 A5 A6 A9 B1 B5 B7 C6 C7 C8 C9	10.5	9.5	20
ICT practicals	A2 A5 A6 A9 B6 B7 B8 C7 C8 C9	3	12	15
Supervised projects	A2 A5 A6 A9 B6 B7 C2 C2 C6 C7 C8	0	20	20
Introductory activities	A2 A6 B7 B8 C6	0	1	1
Problem solving	A2 A9 B6 B8	7.5	9	16.5
Events academic / information	A2 A5 A9 B6 B7 C9	1.5	0	1.5
Personalized attention		1	0	1

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
Guest lecture / keynote speech	Estará centrada na exposición dos contidos de carácter mais teórico. Todas as horas son presenciais.
ICT practicals	Consistirán na exposición e realización dos contidos prácticos dos diferentes temas utilizando software específico. Todas as horas son presenciais.



Supervised projects	Cada alumno debe realizar un traballo aplicando as técnicas aprendidas no curso. Todas as horas son presenciais.
Introductory activities	Presentación da materia e exposición do necesario para cursala. Todas as horas son presenciais.
Problem solving	Solución de problemas da materia. Todas as horas son presenciais.
Events academic / information	Asistencia OBRIGATORIA a conferencias/seminarios programados para a materia. Todas as horas son presenciais.

### Personalized attention

Methodologies	Description
Supervised projects	The student can contact the lecturers via: <ul style="list-style-type: none"> <li>- Email.</li> <li>- Learning platform.</li> <li>- Teams</li> <li>- Videoconference.</li> </ul>

### Assessment

Methodologies	Competencies / Results	Description	Qualification
Supervised projects	A2 A5 A6 A9 B6 B7 C2 C2 C6 C7 C8	The student has to write a paper on the subject and defend it on a public session.	100

### Assessment comments

The 1st and 2nd opportunity and the anticipated opportunity will be evaluated in the same way, as well as the students with partial dedication. The same criteria will be applied to part-time students.

The student who only participates in evaluation activities that have a weight of less than 20% of the final grade, regardless of the grade obtained, will be graded as NOT PRESENT.

The fraudulent performance of the tests or evaluation activities, once verified, will directly imply the grade of fail in the call in which it is commented: the student will be qualified with a "fail" (numerical grade 0) in the corresponding call of the academic year, whether the commission of the fault occurs in the first opportunity as in the second. For this, the student's grade will be modified in the grade of the first opportunity, if necessary.

### Sources of information

<b>Basic</b>	<ul style="list-style-type: none"> <li>- Acemoglu, Daron (2009). Introduction to Modern Economic Growth. MIT Press</li> <li>- Barro, Robert y Sala-i-Marti, Xavier (2004). Economic Growth. MIT Press</li> <li>- Blanchard, Olivier y Stanley Fischer (1989). Lectures on Macroeconomics. MIT Press</li> <li>- Romer, David (2006). Macroeconomía avanzada. McGraw-Hill</li> </ul>
<b>Complementary</b>	<ul style="list-style-type: none"> <li>- Jones, Charles I. (2017). Macroeconomics. W. W. Norton</li> <li>- Jones, Charles I. y Dietrich Vollrath (2013). Introduction to economic growth. W. W. Norton</li> </ul>

### Recommendations

#### Subjects that it is recommended to have taken before

Quantitative Methods/611532004  
 Aggregate Economic Analysis and Growth/611532002  
 Economic Decisions and Market Analysis/611532001

#### Subjects that are recommended to be taken simultaneously

#### Subjects that continue the syllabus

#### Other comments



1.- The delivery of the documentary works carried out in this matter:1.1. It will be requested in virtual format and / or computer support1.2. It will be done through Moodle, in digital format without the need to print them2.- Values of respect and equality will be promoted.3. The integration of students who for physical, sensorial, psychic or sociocultural reasons, experience difficulties to an ideal, equal and beneficial access to university life will be facilitated.4.- Tutoring will be done through Teams.5.- Gender perspective. As stated in the different regulations applicable to university teaching, the gender perspective must be incorporated in this subject.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.