



## Teaching Guide

Identifying Data					2021/22
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	Face-to-face				
Prerequisites					
Department	Economía				
Coordinador	Gómez Suárez, Manuel Alberto	E-mail	manuel.gomez@udc.es		
Lecturers	Gómez Suárez, Manuel Alberto	E-mail	manuel.gomez@udc.es		
Web					
General description	O obxectivo deste curso é ofrecer ao alumno un panorama dos modelos macroeconómicos que se basan na teoría do equilibrio xeral. Incidirase na importancia das expectativas dos axentes na determinación do equilibrio macroeconómico, así como nas consideracións dinámicas necesarias para desenvolver modelos formalmente consistentes. O curso cubrirá os dous modelos básicos da macroeconomía dinámica (o modelo de horizonte infinito o o modelo de xeracións solapadas) e ofrecerá varias aplicacións de ambos modelos				
Contingency plan	<p>1. Modifications to the contents</p> <p>None</p> <p>2. Methodologies</p> <p>*Teaching methodologies that are maintained</p> <p>All</p> <p>*Teaching methodologies that are modified</p> <p>All, but they would be completely online</p> <p>3. Mechanisms for personalized attention to students</p> <p>Without changes</p> <p>4. Modifications in the evaluation</p> <p>None, but it should be online.</p> <p>*Evaluation observations:</p> <p>5. Modifications to the bibliography or webgraphy</p>				

## 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 AC5 AC6 AC9	BC6 BC7 BC8	CC2 CC6 CC8 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	- Hypothesis of the model - Behavior of households and firms - Dynamics of the economy
2. Overlapping generations models	- Hypothesis of the model - Behavior of households - Dynamics of the economy - Dynamic inefficiency
3. Endogenous growth models	- AK model - Romer model
5. Dynamic Stochastic General Equilibrium (DSGE) models	- DSGE models with perfect competition - DSGE models with frictions - Transmission of real, fiscal and monetary shocks
4. Applications: calibration and simulation	- Calibration - Simulation

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.
ICT practicals	Consistirán na exposición e realización dos contidos prácticos dos diferentes temas utilizando software específico.
Supervised projects	Cada alumno debe realizar un traballo aplicando as técnicas aprendidas no curso.
Introductory activities	Presentación da materia e exposición do necesario para cursala.
Problem solving	Solución de problemas da materia.
Events academic / information	Asistencia OBRIGATORIA a conferencias/seminarios programados para a materia.

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.

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 them1.3. If done on paper:- Plastics will not be used.- Double-sided prints will be made.- Recycled paper will be used.- Draft printing will be avoided.2.- A sustainable use of resources and the prevention of negative impacts on the natural environment must be made3.- The importance of ethical principles related to the values ??of sustainability in personal and professional behavior must be taken into account4.- As it is included in the different regulations of application for university teaching, the gender perspective must be incorporated in this matter (non-sexist language will be used, bibliography of authors of both sexes will be used, intervention in class of students will be encouraged and students ...).5.- Work to identify and modify prejudices and sexist attitude, and influence the environment to modify them and promote values ??of respect and equality6. Situations of discrimination based on gender must be detected and actions and measures will be proposed to correct them.7. The full 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.

(\*)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.