

PLAN DOCENTE
The Economics of Climate Change

Máster en
Desarrollo Sostenible

DESCRIPTION SHEET / FICHA IDENTIFICATIVA

COURSE DETAILS/DATOS DE LA ASIGNATURA

CODE/CÓDIGO	418246
TITLE/NOMBRE	The Economics of Climate Change/ La Economía del Cambio Climático
TYPE/CARÁCTER	Obligatoria
TEACHING PERIOD/PERÍODO	One semester. Second semester /Semestral. Segundo semestre
LANGUAGE/IDIOMA	Spanish, English /Castellano, inglés
ECTS CREDITS/CRÉDITOS ECTS	3.0

COORDINATION/COORDINACIÓN

PhD. Andrea Noferini (Coord.), CEI, International Affairs

OBJECTIVES/OBJETIVOS

This course uses the elements of economic analysis to study the challenges, costs and benefits of climate change, mitigation and adaptation, as well as the social and distributional aspects associated with climate change.

Este curso utiliza los elementos del análisis económico para estudiar los retos y los costes y beneficios del cambio climático, la mitigación y la adaptación, así como los aspectos sociales y distributivos asociados al cambio climático.

PROGRAM/PROGRAMA

SESSION 1: The economics of climate change / La economía del cambio climático

Introduction.

What is the economics of climate change?

The economics of public goods, common goods and externalities.

Introducción.

¿Qué es la economía del cambio climático?

La economía de los bienes públicos, bienes comunes y las externalidades.

SESSION 2: Game Theory (an introduction): social interactions and social preferences. /Teoría de juegos (una introducción): interacciones sociales y preferencias sociales

SESSION 3: Climate change impacts /Impactos del cambio climático.

SESSION 4: Aggregating climate change damages across space and time: the social cost of carbon, discounting and sustainability. /Agregación de los costes del cambio climático en el tiempo y el espacio: el coste social del carbono, la tasa de descuento y la sostenibilidad.

SESSION 5: Environmental cooperation /Cooperación medioambiental.

SESSION 6: Energy transition and climate change / Transición energética y cambio climático.

SESSION 7: Global carbon pricing /Precio global del carbono

SESSION 8: . Inequality and climate change. / Desigualdad y cambio climático

SESSION 9: Climate Negotiations and Environmental Agreements. / Negociaciones del clima y acuerdos medioambientales

SESSION 10: Uncertainty and tipping points in the economics of climate change / Incertidumbre y puntos de inflexión en la economía del cambio climático.

SESSION 11: Emissions Markets: The EU Emissions Trading System (EU ETS) / Mercado de Emisiones: El régimen europeo de intercambio de emisiones

SESSION 12: Conclusions / Conclusiones

PREVIOUS KNOWLEDGE /CONOCIMIENTOS PREVIOS

REQUIRED SUBJECTS / RELACIÓN CON OTRAS ASIGNATURAS DE LA MISMA TITULACIÓN

There are no specified enrolment restrictions with other subjects of the curriculum.
No se han especificado restricciones de matrícula con otras asignaturas del plan de estudios.

TEACHING METHODOLOGY/METODOLOGÍA DOCENTE

The course consists of twelve 2-hour sessions. Each session will focus on a specific issue related to the economic aspects of climate change. If necessary, we might change the program to adapt to unforeseen circumstances.

El curso consta de 12 sesiones de 2 horas. Cada sesión se centra en un tema relacionado con los aspectos económicos del cambio climático. El programa es susceptible de cambios que permitan adaptarse a circunstancias imprevistas.

GRADING/EVALUACIÓN

Students will have to write short essays on each session offered by an external speaker. Grading will be based on the score for those essays and on participation in the class as well as in the different activities and discussions.

La evaluación se basará en los ensayos que los estudiantes han de escribir para cada una de las sesiones ofrecidas por los colaboradores y la participación en las discusiones y las actividades.

WORKLOAD/VOLUMEN DE TRABAJO

WORKING HOURS

TOTAL	75
CONTACT TIME	24
ACTIVITIES	25
INDEPENDENT STUDY	27

REFERENCES/BIBLIOGRAFÍA

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- Bel, G., and Teixidó, J. J. 2020. "The political economy of the Paris Agreement: Income inequality and climate policy." *Journal of Cleaner Production*, 258, 121002. <https://doi.org/10.1016/j.jclepro.2020.121002>
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- Feyen L, Ciscar JC, Gosling S, Ibarreta D, Soria A (editors) (2020). Climate change impacts and adaptation in Europe. JRC PESETA IV final report. EUR 30180EN, Publications Office of the European Union,
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