

**TEACHING GUIDE OF THE SUBJECT: MICRO AND MACROECONOMY APPLICATIONS****1. General data**

Subject:	<b>Microeconomics and Macroeconomics Applications</b>	CODE:	<b>53339</b>
Typology:	<b>Optional</b>	ECTScredits:	<b>6</b>
Grade:	<b>316 Grade in Economis</b>	Academic course:	<b>2016-17</b>
Centre:	<b>(5) School of Economics and Business Sciences Albacete</b>	Group(s):	<b>10</b>
Course:	<b>4</b>	Duration:	<b>First term</b>
Main language for teaching:	<b>Spanish</b>	Second language:	<b>English</b>

**Professor's name:**

Office	Department	Phone	email	Tutorials timetable
Melchor de Macanaz 2.31	Business Administration	967599200 2358	fabio.monsalve@uclm.es	Specified in moodle

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**2. Prerequisites**

Basic knowledge of economic theory (Micro and Macro) and Excel software.

**3. Justification in the curriculum, relationship with other subjects and the profession**

The subject is designed to provide the student with some methodological, instrumental and general-purpose concepts related to Ecological Economics. The first part will be devoted to the introduction of selected readings which, eventually, will enable the students to know the main problems and challenges of sustainable development. The second part is more practical, and focuses in the explanation of a specific model to compute anthropogenic footprints. Finally, the students will have to elaborate and present an analysis of a real footprint. This last part will be taught in the software lab, in a truly practical way.

**4. Competencies of the degree that the course contributes to achieve****Competences obtained with the subject**

E3	Ability to find economic data and select relevant facts.
E5	Ability to contribute to the establishment of strategies which will allow for the efficient allocation of resources, the generation of wealth and a suitable distribution of income.
E6	Application of professional criteria to the analysis of problems, based on the use of technical tools.
E11	Diagnosis and assessment skills to conduct structural and cyclical reports, as well as economic forecast summaries on the reality of the economy in Spain, the European Union and in any of the product sectors and factor markets. To do so, it will be necessary to understand and use common handbooks, as well as articles and, in general, leading edge bibliography in the core subjects of the curriculum.
G03	To develop oral and written communication skills in order to prepare reports, research projects and business projects and defend them before any commission or group of professionals (specialised or non-specialised) in more than one language, by collecting relevant evidence and interpreting it appropriately so as to reach conclusions.
G04	Ability to use and develop information and communication technologies and to apply them to the corresponding business department by using specific programmes for these business areas.

**5. Objectives or expected learning results**

**Results from taking the subject**

- To understand the problematic of the sustainability of the growth in its economic, social and environmental facets.
- To understand the limits to consumption and unsustainable growth.
- To know and understand the policies of sustainable growth.
- To Know and apply the input-output analysis to evaluate the environment, being able to compute and to interpret different footprints.
- To understand the social and economic importance of the environment.
- To be able to use the sources of statistical information to evaluate and contrast the impact of economic activity on the environment.
- To be able to write and report on specific environmental situations.
- To understand the social importance of the Economic impact on the environment.

**6.Syllabus****PART1. ECONOMY, ENVIRONMENT AND WELL-BEING****1. Ecological economics**

Economic activity and Environment  
Constituents of human well-being

**2. Human beings and needs satisfaction within a limit planet (Book Reading)**

Jackson, T. (2009): *Prosperity without growth: economics for a finite planet.*

**PART 2. MARKET LIMITS.****3. A finit planet**

Economic and environmental sustainability  
The IPAT identity  
The Kaya identity (Desarrollar)  
The Environmental Kuznets Curve

**4. Reading of selected papers****PART 3. THE HUMAN FOOTPRINT.****5. The anthropic footprint as a measure of sustainability**

The concept of ecological footprint  
Input-output Models

**6. Computing an antrophic footprint**

Databases: SRIO; MRIO  
Software: matlab

**7. Activities and methodology**

Training activity	Methodology	Competencies	ECTS	Hours	Ev	Man	Rec	Description
<b>Total:</b>								

**8.Evaluation criteria**

Evaluation system	%	Description
Readings and Comments	40.00%	<p>It will be proposed a book and several papers to be read by the students. Each student must be responsible of a reading. This assignment implies to chair a session about the reading. The particular tasks to be performed should be:</p> <ul style="list-style-type: none"> <li>• Open a forum in campus virtual about the particular session.</li> <li>• Present to the rest of the class the main ideas of the reading.</li> <li>• Elaborate some questions about the contents of the paper. This questions should be answered by the rest of the students and will be discuss in the session. The questions could be specific about the contents or open-ed about the general ideas exposed.</li> </ul> <p>The evaluation of this task will take into account the five following items: clarity of the presentation, the economic analysis, the additional documentation (Statistics, graphs, figures...), the originality of the questions and, finally, the interest aroused.</p>
Paper "Environmental footprint"	40.00%	Students should elaborate and present an analysis of an anthropic footprint. The items to be evaluated will be the data analysis, the discussion of the results, the clarity in showing the results and the attendance.
Active Attendance	20.00%	The active attendance will be valued according to the interests showed by the students in the sessions and the comments made by them.
Final Exam	80.00%	
<b>Total:</b>		<b>100.00%</b>

**Distinctive features for the extra-ordinary call:**

**9.Sequence of work, schedule, milestones and temporary investment**

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10. References						
Author/s	Title	Editorial	City	ISBN	Year	Description
Common, M. S., & Stagl, S.	<i>Ecological economics : an introduction.</i>	Cambridge University Press.	Cambridge		2005	
Davis, S. J., & Caldeira, K.	Consumption-based accounting of CO2 emissions. <i>Proceedings of the National Academy of Sciences</i>				2010	
de Groot, R. S., Wilson, M. A., & Boumans, R. M. J.	A typology for the classification, description and valuation of ecosystem functions, goods and services				2002	
Hoekstra, A. Y., & Wiedmann, T. O.	Humanity's unsustainable environmental footprint.				2014	
Jackson, T.	<i>Prosperity without growth : economics for a finite planet</i>	Sterling, VA: Earthscan.	London		2009	
Liu, Jianguo et al.	Systems integration for global sustainability. <i>Scienc</i>					
Miller, R. E., & Blair, P. D.	<i>Input-output analysis : foundations and extensions</i> (2nd ed.).	Cambridge University Press.	Cambridge		2009	
Tietenberg, Thomas H	<i>Environmental &amp; natural resource economics</i>	Pearson Education			2012	
World Resources Institute.	<i>Ecosystems and human well-being : biodiversity synthesis.</i>		Washington.		2005	