

SYLLABUS

1. COURSE DESCRIPTION

Degree:	Environmental Sciences
Course:	Global Change
Module:	Environmental Change at a Global Scale/Level
Department:	Physical, Chemical and Natural Systems
Academic Year:	2017-18
Term:	Second
ECTS credits:	6
Year:	3rd year
Type:	Compulsory
Language:	Spanish

Course Model:	B1	
a. Basic learning (EB):		60 %
b. Practical learning (EPD):		40 %



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2. LECTURERS

Coordinator	
Name:	Pedro Ribera Rodríguez
School:	Experimental Sciences
Department:	Physical, Chemical and Natural Systems
Area:	Physics of the Earth
Office Hours:	Mondays, Tuesdays and Wednesdays 12.00-14.00
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3. TOPICS

1. Physical foundations of global change.
2. Energy balance of the climate system: greenhouse effect and global warming.
3. Climate variability: natural records, historical records. Impact of human activity.
4. Future forecast of the climate: climatic models, future scenarios.
5. The Intergovernmental Panel on Climate Change (IPCC)
6. Alteration of the cycle of C. Effect on organisms and ecosystems.
7. The alteration of the cycles of N and P. Effect on organisms and ecosystems
8. Desertification and desertification on a global scale.
9. Loss of biodiversity on a global scale.