



PRESENTACIÓN

Short description:

The course will explain the current state of the most relevant topics concerning environmental issues following the “Part B: State and Trends of the Environment“ of the United Nations GEO7 report though 26 one-hour lectures starting September 3rd and ending on November 26th

- Titulación: Environmental Sciences
- Módulo/Materia: VIII
- ECTS: 3
- Curso, semestre: 1st
- Carácter: OP
- Profesorado: Johann Martinez Lüscher (johannml@unav.es)
- Idioma: English
- Aula, Horario: 16 (Ed. Bibliotecas) Thursdays at 12 pm -14 pm

The course aims to be specific enough to bring some novelty to Environmental Sciences Students, but it is not meant to require a scientific background for all students to be followed. The goal is to give an outlook about the state of global environmental issues, understand how they are being monitored and why they should concern the society and policy makers.

RESULTADOS DE APRENDIZAJE (Competencias)

Understand the evolution of sources of air pollutants by industry and geographic area. Depending on their background the students will be expected to know the fate of pollutants in the environment. What are the human activities causing pollution and how these pollutants affect human lives.

Understanding the current state of the biggest environmental issues concerning the oceans and coasts (e.g. chemical pollution, plastics, coral reef loss...)

Understanding the current state of the biggest environmental issues concerning the land and soil (food security, fertilizer overuse, soil erosion, growth of agricultural landuse...)

Understanding the current state of the biggest environmental issues concerning freshwater ecosystems (water scarcity, groundwater contamination, pollution, habitat loss...)

Understand how to synthesise big scientific models and analysis into operable indicators.
Understand how to present data to society and policy makers, in order to impact the decisions they will make.

PROGRAMA

Lecture 1: Presentation of the course. classroom 16 science library building.

Trends in GEO reports and what is new in GEO 7

- Part B: Ch. 3 Air.
- Part B: Ch. 4 Land and Soil.
- Part B: Ch. 5 Oceans and Coasts.
- Part B: Ch. 6 Freshwater.
- Part B: Ch. 7 Implication of Environmental Crises on the Socioeconomic Dimensions of the Sustainable Development Goals.
- Part B: Ch. 8 Interlinkages Across Environmental Changes, Scales and Geographic Regions and Subregions.



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High Throughput Data sources for decision making: satellite based data, modelling, biodiversity data bases, ...

Emerging Human practices creating pressures on the environment.

Geopolitics and environment.

One health from a global perspective.

ACTIVIDADES FORMATIVAS

The students will learn how to integrate big data analysis into decision making through their individual development of a case study.

The students are improving their communication skills by synthesizing a topic through their 10-min presentation using a case study to convince the audience (policy makers) of the need for action on a topic.

The course will be theoretical and a final exam will evaluate the understanding of the trends in environmental topics at a global scale.

Participation in debates and competence in responding to open end-questions will be put in practice.

EVALUACIÓN

CONVOCATORIA ORDINARIA

The final grade is obtained following this criteria:

- 60% of the final grade will be based on a written exam (50% multiple choice exam and 50% short questions). The minimum grade to get averaged with the presentation and participation will be 4 points in a scale of 10.
- 30% of the final grade will be based on a 10 min presentation of a case study chosen by the student. These presentations will take place at the end of the lectures within the time assigned to the course.
- 10% of the final grade will be based on the participation in class.

All the qualifications will go through a weighted average. The minimum qualification to pass the course will be 5 out of 10.

CONVOCATORIA EXTRAORDINARIA

If the qualification is not enough, the exam can be taken a second time in June.

HORARIOS DE ATENCIÓN

Dr. Johann Martínez Lüscher. (Johanml@unav.es)

- Despacho: 5B012. Edificio. Planta .5a.
- Horario de tutoría: Thursdays 14h-16h

BIBLIOGRAFÍA Y RECURSOS



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GEO6: <https://www.unep.org/resources/assessment/part-state-global-environment>

GEO7: <https://wedocs.unep.org/items/bba44efd-7715-4054-8432-92b270ee9d67>