

Professor de contacte

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Utilització de llengües

Llengua vehicular majoritària: Anglès

Hi ha algun grup íntegre en català?

Hi ha algun grup íntegre en castellà?

Hi ha algun grup íntegre en anglès? **Sí**

Equip docent

Prerequisites

Oral and written English skills

Objectius

The module pretends to introduce students to current debates on the management of water and energy resources, emphasizing the territorial dimension. An attempt will be made to collect case studies at different scales in different areas of the world on these issues although a certain Mediterranean focus is to be expected.

The course will pay special attention to contrasting conventional management models based on centralized technologies, expert approaches and "top-down" management, with more alternative resources, decentralized technologies and participatory processes open to larger segments of society. Both models will be compared in terms of governance and power relationships. Another very important element of the course will be the analysis of territorial conflicts arising in the operation of these management models.

Through readings of selected materials, lectures and class presentations and discussions, students are expected to gain a basic, robust knowledge on water and energy issues from environmental, social, and territorial perspectives.

Competències i resultats d'aprenentatge

Competències:

CG1. Comunicar-se amb llengua anglesa en diferents formats i contextos

CG8. Analitzar situacions noves i complexes i dissenyar diverses estratègies alternatives per a la seva solució, identificant els riscos que comporten les propostes creatives

CE2. utilitzar metodologies adients per l'anàlisi i gestió del paisatge

CE3. Utilitzar diferents metodologies d'anàlisi escalar, aplicant els coneixements en casos d'estudi des de l'àmbit internacional a l'àmbit local

CE4. interpretar les principals legislacions. Figures i mètodes de planejament urbanístic, territorial i ambiental a Europa

CE5. Diagnosticar els impacte territorials de les activitats, plans i projectes aplicant metodologies multidisciplinàries

CE6. reconèixer les dimensions temporals i espacials dels processos i canvis territorials i ambientals

Resultats d'aprenentatge:

1. Llegir bibliografia en llengua anglesa

2. Assistir a conferències o seminaris on la llengua principal sigui l'anglès

16. Identificar i resoldre conflictes derivats de l'aplicació de diferents metodologies a un mateix cas d'estudi

17. Argumentar i debatre propostes des de diferents perspectives professionals

3. Interpretar dades expressades en llengua anglesa

28. Argumentar quins són els paràmetres que intervenen en una situació

33. Identificar els factors que incideixen en els processos territorials i ambientals en cada escala d'anàlisi

38. Identificar les metodologies d'anàlisi escalar utilitzades

39. identificar les normes, figures i mètodes de planejament urbanístic que regeixen a Espanya i en alguns dels països europeus propers

44. Identificar els canvis ambientals

43. Identificar i argumentar quins són els paràmetres que intervenen en un procés d'impacte territorial, utilitzant les metodologies adients

45. En cada escala d'anàlisi identificar els factors que incideixen en els processos territorials i ambientals

46. identificar la relació que existeix entre els factors que incideixen a diferents escales

Continguts

1. Planning, water and energy
 - Nature, society and power
 - Planning and management
 - The water-energy nexus
2. Water and energy supply
 - Large conventional hydraulic technology: reservoirs and water transfers
 - Large alternative hydraulic technology: desalination and water reuse
 - Fossil energy sources, "peak oil" and climate change
 - Energy security and risk management: nuclear energy and social movements
 - Renewal energy: solar, wind and biological energy
3. Water and energy demand
 - Technology vs economy
 - The behavioural component
 - The role of structural factors
4. The politics of scale
 - Scalar effects and multilevel governance
 - Centralized and decentralized models
 - Governance of decentralized water resources: groundwater, greywater and rainwater
 - Electricity governance: production, distribution and commercialization
5. Commodification, social protection and emancipation
 - Privatization and municipalisation
 - Water and energy as social needs
 - Governance of the commons and governance as commons
 - Integrated water management in cities: the liberal vs the emancipatory view
 - Social innovation and local development: cities in transition and energy cooperatives

Metodologia docent

The following activities will be carried out:

- a) Lectures. In some sessions we will have an invited speaker.
- b) Seminars: a brief introduction to the specific topic given by the instructor followed by the presentation of assigned readings by students, the group discussion of the main points discussed in the readings, and a final conclusion coordinated by the instructor. Students are expected to read the assigned materials; prepare and guide discussions and participate actively in the debates.
- c) Case studies: a case study or a practical exercise will be presented and the students will have to solve it.

Activitats formatives

Títol	HORES	ECTS	RESULTATS D'APRENTATGE
Dirigides			
Classes teòriques (cas studies, lectures, oral presentation, seminars)	30		3, 41, 44, 45, 46
Supervisades			
Debates (preparation of oral presentations, readings, resolutions of case studies)	7		1, 2, 3, 41, 44, 45, 46
Autònomes			
Personal study	25		1, 2, 3, 41, 44, 45, 46
Preparation papers	45		39, 40

Activitats d'avaluació

ACTIVITATS D'AVALUACIÓ	HORES	PES NOTA	RESULTATS D'APRENTATGE
Proves o exàmens escrits	4	60%	3, 41, 44, 45, 46
Resolució d'exercicis i casos pràctics	10	15%	39, 40, 41
Classes participatives	2	10%	28
Exposició oral	2	15%	17, 39, 40

Bibliografia i enllaços web

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