310627 - Environmental Engineering

Coordinating unit: 310 - EPSEB - Barcelona School of Building Construction
Teaching unit: 732 - OE - Department of Management
Academic year: 2019
Degree: BACHELOR'S DEGREE IN GEOINFORMATION AND GEOMATICS ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)
ECTS credits: 4.5  Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: Oliver Rossell, Guillermo Luis
Others: Oliver Rossell, Guillermo Luis

Opening hours
Timetable: The Hours will be Thursday from 9am - 10am

Degree competences to which the subject contributes

Specific:
CT3. (ENG) Comprendre i analitzar els problemes de implantació en el terreny de les infraestructures, construccions i edificacions projectades des de l'enginyeria en topografia, analitzar els mateixos i procedir a la seva implantació.

Transversal:
05 TEQ N1. TEAMWORK - Level 1. Working in a team and making positive contributions once the aims and group and individual responsibilities have been defined. Reaching joint decisions on the strategy to be followed.
07 AAT N2. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.

Teaching methodology
1. Lectures
2. Performing work
3. Evaluation

Learning objectives of the subject
The main objective of the course is that students have a greater capacity to analyze, plan and solve problems confronting it in real life.
Also, when you finish the course, know the origin, in a social sense of the word and all that means the environment.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group: 18h 16.00%</th>
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<tbody>
<tr>
<td>Hours medium group: 27h 24.00%</td>
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<tr>
<td>Self study: 67h 30m 60.00%</td>
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## Content

### Environment History

<table>
<thead>
<tr>
<th>Learning time: 6h 30m</th>
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<tbody>
<tr>
<td>Laboratory classes: 6h 30m</td>
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**Description:**
This section will discuss the origin of the word "environment" as well as all the history that surrounds it, from the Romans fins today. We also discuss the "DEAL" that makes agents can now be manipulated and how people but creating a new economy based on this concept.

### Current legislation - UNE - ISO- EMAS

<table>
<thead>
<tr>
<th>Learning time: 6h 30m</th>
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<tbody>
<tr>
<td>Laboratory classes: 6h 30m</td>
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**Description:**
Once learned the origin of the environment, we can focus on how it comes: "Environmental Management and Assessment."

Explain the history of international and local organizations that implemented the system and Environmental Assessment Management worldwide.

Once we know the source, we will focus on how these organizations work, what is the process of creating these standards, how their implementation in society, it etc ...

We'll discuss the differences between the various organizations.

## Planning of activities

### coursework: Environmental Impact

<table>
<thead>
<tr>
<th>Hours: 26h</th>
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<tr>
<td>Self study: 2h 40m</td>
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<tr>
<td>Laboratory classes: 11h 40m</td>
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<tr>
<td>Theory classes: 11h 40m</td>
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**Description:**
Be conducted in groups, environmental impact work, properly resized.

**Descriptions of the assignments due and their relation to the assessment:**
The delivery of the work will be the last day of class. There will be an oral presentation by the groups.

## Qualification system

Continued coursework during the year (E.I.A.)
Final exam with the content of the worked material in the lectures.

**Percentatges:**

70 % coursework E.I.A.
30 % Final Exam

It is essential to approve the work to pass the course.
Regulations for carrying out activities

It is mandatory delivery of work at the end of the quarter, as well as overcome with at least 5, to gain access to the final exam. This is mandatory if either the global average of 5.

Bibliography