**Course guides**  
**310627 - 310627 - Environmental Engineering**

**Unit in charge:** Barcelona School of Building Construction  
**Teaching unit:** 732 - OE - Department of Management.

**Degree:** BACHELOR'S DEGREE IN GEOLLOCATION AND GEOMATICS ENGINEERING (Syllabus 2016). (Compulsory subject).

**Academic year:** 2020  
**ECTS Credits:** 4.5  
**Languages:** Catalan, Spanish

**LECTURER**

**Coordinating lecturer:** Oliver Rossell, Guillermo Luis

**Others:** Oliver Rossell, Guillermo Luis

**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>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self study</td>
<td>67,5</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>18,0</td>
<td>16.00</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>27,0</td>
<td>24.00</td>
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**Total learning time:** 112.5 h
CONTENTS

Environment History

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.

Full-or-part-time: 6h 30m
Laboratory classes: 6h 30m

Current legislation - UNE - ISO - EMAS

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.

Full-or-part-time: 6h 30m
Laboratory classes: 6h 30m

ACTIVITIES

coursework: Environmental Impact

Description:
Be conducted in groups, environmental impact work, properly resized.

Delivery:
The delivery of the work will be the last day of class. There will be an oral presentation by the groups.

Related competencies:
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.
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.
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.

Full-or-part-time: 26h
Theory classes: 11h 40m
Laboratory classes: 11h 40m
Self study: 2h 40m
GRADING 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.

EXAMINATION RULES.

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.