33109 - SARNMP - Advanced Seminar on Natural Resources as Raw Material

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering
Academic year: 2019
Degree: MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2008). (Teaching unit Optional)
MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2015). (Teaching unit Optional)
MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2009). (Teaching unit Optional)
ECTS credits: 5
Teaching languages: Catalan, Spanish, English

Teaching staff
Coordinator: Busquets Rubio, Pere
Parcerisa Duocastella, David

Degree competences to which the subject contributes

Specific:
1. To design a process to minimise a pollutant, a waste material or a type of pollution.

Teaching methodology
Lectures, conferences, debates and forums are given on the basic content of the subject.
- A research assignment is set and tutored by one of the subject's professors over the course of the semester. Students must present it in public.

Learning objectives of the subject
To become familiar with the problems associated with the exploitation of natural resources and their application in industry, construction and society in general.
To provide students with the advanced knowledge of researchers working in areas related to sustainable exploitation.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 45h</th>
<th>Hours large group:</th>
<th>30h</th>
<th>66.67%</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>15h</td>
<td>33.33%</td>
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</table>
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Content

<table>
<thead>
<tr>
<th>-DESCRIPTION</th>
<th>Learning time: 45h</th>
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<tbody>
<tr>
<td></td>
<td>Theory classes: 30h</td>
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<tr>
<td></td>
<td>Practical classes: 15h</td>
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**Description:**

1. Geological materials for obtaining energy
   - Fossil fuels
   - Water
   - Other

2. Industrial geological materials for the metallurgical and chemical industry
   - Minerals
   - Rocks
   - Carbon, petroleum and natural gas
   - Other

**Qualification system**

Assessment takes into account the following:

- Written test (40%)
- Tutored assignment (40%)
- Exercises on the topics (20%)

The following criteria are taken into account:

a) Assessment of the documents obtained: relevance and processing of the information.
b) Assessment of the report.
c) Assessment of the public presentation.

**Bibliography**

**Basic:**

