Degree competences to which the subject contributes

Transversal:
1. SELF-DIRECTED LEARNING. Detecting gaps in one's knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one's knowledge.
2. EFFICIENT ORAL AND WRITTEN COMMUNICATION. Communicating verbally and in writing about learning outcomes, thought-building and decision-making. Taking part in debates about issues related to the own field of specialization.
3. SUSTAINABILITY AND SOCIAL COMMITMENT. Being aware of and understanding the complexity of social and economic phenomena that characterize the welfare society. Having the ability to relate welfare to globalization and sustainability. Being able to make a balanced use of techniques, technology, the economy and sustainability.
4. TEAMWORK. Being able to work as a team player, either as a member or as a leader. Contributing to projects pragmatically and responsibly, by reaching commitments in accordance to the resources that are available.
5. EFFECTIVE USE OF INFORMATION RESOURCES. Managing the acquisition, structure, analysis and display of information from the own field of specialization. Taking a critical stance with regard to the results obtained.

Teaching methodology

The work scheduled to facilitate learning within the curriculum is not rigid and gives its support to the achievement of the aims, clearly focused on them. Sometimes the process of teaching uses the traditional class applied to the entire group, and sometimes it uses support from other different formulas and mechanisms, such as classes with active participation of attendees, teamwork...

Learning objectives of the subject

At the end of the deployment of this subject, students should be able to give an interpretation of the role and the problems of the industry in successives geographical scales, students should be able to perform a wide reading on some realities of the industrial world and students should be able to offer a version of the impact on society of industrial activity, traditional activities and also activities linked to new technologies. The main objective of the course is that students be able to capture images of the social dimensions of industrial activity.
## Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours large group:</th>
<th>Hours medium group:</th>
<th>Hours small group:</th>
<th>Guided activities:</th>
<th>Self study:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total learning time:</td>
<td>75h</td>
<td>0h</td>
<td>30h</td>
<td>0h</td>
<td>45h</td>
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<tr>
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<td>0.00%</td>
<td>40.00%</td>
<td>0.00%</td>
<td>0.00%</td>
<td>60.00%</td>
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</tbody>
</table>
# Content

## Technical systems, safety and sensitivities

**Learning time:** 15h  
- Practical classes: 6h  
- Guided activities: 6h  
- Self study: 3h

**Description:**  

**Related activities:**  
- Lectures  
- Debates  
- Individual work or teamwork  
- Assessment

**Specific objectives:**  
To describe aspects of the environment of the industry

## The industry in Catalonia: a panoramic view

**Learning time:** 15h  
- Practical classes: 6h  
- Guided activities: 6h  
- Self study: 3h

**Description:**  

**Related activities:**  
- Lectures  
- Debates  
- Individual work or teamwork  
- Assessment

**Specific objectives:**  
To identify characteristics of the Catalan industrial environment.  
To communicate the main occupations in industry that engineers can foresee the first decades of the current century.
**New technologies and Spanish industry, today and tomorrow**

<table>
<thead>
<tr>
<th>Learning time: 15h</th>
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</thead>
<tbody>
<tr>
<td>Practical classes: 6h</td>
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<tr>
<td>Guided activities: 6h</td>
</tr>
<tr>
<td>Self study : 3h</td>
</tr>
</tbody>
</table>

**Description:**

**Related activities:**
- Lectures
- Debates
- Individual work or teamwork
- Assessment

**Specific objectives:**
To recognize some main characteristics of the environment of industry in Spain

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**European industry and European construction in the 20th century**

<table>
<thead>
<tr>
<th>Learning time: 15h</th>
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<tbody>
<tr>
<td>Practical classes: 6h</td>
</tr>
<tr>
<td>Guided activities: 6h</td>
</tr>
<tr>
<td>Self study : 3h</td>
</tr>
</tbody>
</table>

**Description:**

**Related activities:**
- Lectures
- Debates
- Individual work or teamwork
- Assessment

**Specific objectives:**
To mention lines of thought that have led to the current forms of European integration and the necessary responses.
To expose the main treaties that have led to the present UE and the relevance of implementing a common European market, especially regarding industrial products.
To appoint funds.
To characterize the basic features of the Common Industrial Policy and other common policies.
To deep on states that have been part of the European Communities from the beginning
The evaluation base is attendance (10%), a set of papers (45%) and a final exam (45%).

Qualification system

Learning time: 15h
- Practical classes: 6h
- Guided activities: 6h
- Self study: 3h

Description:

Related activities:
- Lectures
- Debates
- Individual work or teamwork
- Assessment

Specific objectives:
- To locate the different strengths of industry in the international economy (globally and regionally).
- To compare the agricultural stage of society with the industrial and post-industrial stage.
- To assess events in the global order (economic, political, social, ...)
- To present the industry as a dynamic reality that has been adapted in different ways.
- To interpret social implications of developments in the industry.
- To distinguish consequences of the use of ICT in industrial activity.
- To locate development cooperation in engineering.

Engineers in the world: a short reading. Who’s talking about engineering? How do you talk about engineering?

Qualification system

Regulations for carrying out activities

During the semester, small teams will develop some independent activities. The final exam will be an individual assessment. In order to attend the final exam, students can use some resources.
Bibliography

Basic:


Complementary:


Others resources:

Hyperlink

europa.eu

Official website of the European Union

www.cidob.org

Official website of the Barcelona Centre for International Affairs (CIDOB)