240EO034 - Introduction to Industrial Engineering Research

Coordinating unit: 240 - ETSEIB - Barcelona School of Industrial Engineering
Teaching unit: 732 - OE - Department of Management
Academic year: 2019
Degree: MASTER'S DEGREE IN MANAGEMENT ENGINEERING (Syllabus 2012). (Teaching unit Compulsory)
ECTS credits: 4,5  Teaching languages: Spanish

Teaching staff
Coordinator: Jordi Olivella

Degree competences to which the subject contributes

Specific:
1. Develop and present a research proposal according to the criteria of the international scientific community.

General:
2. Know and understand the mechanisms underlying scientific research and the mechanisms and instruments of transfer of results between different socio-economic actors involved in the processes I + D + i.

Teaching methodology
Lectures, practicals and directed work.

Learning objectives of the subject
The student, after completing the course, must:

Know and understand what research is and the organization and operation of the scientific community in the field of industrial engineering.

Be able to use the tools of documentary search and the necessary means to conduct research in this area.

Be able to develop, with appropriate supervision, a research work according to international standards.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group:</th>
<th>27h</th>
<th>24.00%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hours small group:</td>
<td>13h 30m</td>
<td>12.00%</td>
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<tr>
<td></td>
<td>Self study:</td>
<td>72h</td>
<td>64.00%</td>
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</table>
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## Content

### Research in the field of industrial engineering.

**Learning time:** 13h 20m  
**Theory classes:** 13h 20m

**Description:**  

### Tools for research

**Learning time:** 13h 20m  
**Theory classes:** 13h 20m

**Description:**  

### Research lines in the field of industrial engineering.

**Learning time:** 13h 50m  
**Theory classes:** 13h 50m

**Description:**  
Current status and prospects of research in various lines corresponding to production, logistics, the design and management of supply chain and business administration. The emphasis is on issues the teaching staff of the course is working on.

## Qualification system

Class activities: 50% (average marks of the deliveries)  
Research proposal, definition of the subject and objectives: 25%  
Research proposal, full proposal document: 25%

## Bibliography

### Basic:


### Others resources:

Slides and documents in the digital campus Atenea.