240EO034 - Introduction to Industrial Engineering Research

Coordinating unit: 240 - ETSEIB - Barcelona School of Industrial Engineering
Teaching unit: 732 - OE - Department of Management
Academic year: 2017
Degree: MASTER'S DEGREE IN MANAGEMENT ENGINEERING (Syllabus 2012). (Teaching unit Compulsory)
ECTS credits: 4,5
Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Jordi Olivella
Others: Albert Corominas

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

<table>
<thead>
<tr>
<th>Research in the field of industrial engineering.</th>
<th>Learning time: 12h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 6h</td>
<td></td>
</tr>
<tr>
<td>Self study: 6h</td>
<td></td>
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</tbody>
</table>

**Description:**

<table>
<thead>
<tr>
<th>Tools for research</th>
<th>Learning time: 16h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical classes: 8h</td>
<td></td>
</tr>
<tr>
<td>Self study: 8h</td>
<td></td>
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</tbody>
</table>

**Description:**

<table>
<thead>
<tr>
<th>Research lines in the field of industrial engineering.</th>
<th>Learning time: 12h</th>
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</table>

**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: 10% (average marks of the deliveries)
Research proposal, definition of the subject and objectives: 30 %
Research proposal, full proposal document: 30 %
Research proposal, full proposal presentation: 30 %

## Bibliography

**Basic:**


**Others resources:**

Slides and documents in the digital campus Atenea.