240EI033 - Technological Innovation

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 732 - OE - Department of Management
Academic year: 2018
Degree: MASTER'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2012). (Teaching unit Compulsory)
MASTER'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2012). (Teaching unit Compulsory)
ECTS credits: 3  Teaching languages: Catalan

Degree competences to which the subject contributes

Specific:
1. Manage the research, development and technological innovation, based on the transfer of technology and property rights and patents
2. Manage the Research, Development and Technological Innovation, based on the transfer of technology and property rights and patents.

Teaching methodology
MD.1 Dynamic master lecture
MD.2 Conferences
MD.3 Autonomous learning
MD.5 Team work and case-base learning

Learning objectives of the subject

Lessons are built on a practical knowledge outlining how technology innovation is managed in real companies. The subject covers specifically Innovation Management through acquisition of new technologies and innovations. Additionally, this subject aims to provide the student with the necessary knowledge to deal with management, acquisition and protection of new research-based knowledge and innovations, as the base for ensuring a sustainable competitive advantage for companies in their market.

Specific objectives:
1. Identify the dynamics of the innovation processes in its different typologies and components.
2. Relate the innovation strategy to the general strategy of the company.
3. Understand Innovation Management tools and how to proceed to launch new products and services
4. Know how to protect innovation through different mechanisms
5. Know the public policy of innovation and the creation of innovation networks
### Study Load

<table>
<thead>
<tr>
<th>Total learning time: 75h</th>
<th>Hours large group: 18h</th>
<th>24.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Hours small group: 9h</td>
<td>12.00%</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Self study: 48h</td>
<td>64.00%</td>
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## Content

<table>
<thead>
<tr>
<th>1. TECHNOLOGY AND STRATEGY</th>
<th>Learning time: 6h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Theory classes: 2h</td>
</tr>
<tr>
<td></td>
<td>Self study : 4h</td>
</tr>
</tbody>
</table>

**Related activities:**
1, 2, 3, 4, 5, 6

**Specific objectives:**
1

<table>
<thead>
<tr>
<th>2. INNOVATION</th>
<th>Learning time: 12h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Theory classes: 4h</td>
</tr>
<tr>
<td></td>
<td>Practical classes: 2h</td>
</tr>
<tr>
<td></td>
<td>Self study : 6h</td>
</tr>
</tbody>
</table>

**Related activities:**
1, 2, 3, 4, 5, 6

**Specific objectives:**
1

<table>
<thead>
<tr>
<th>3. INNOVATION AND ORGANIZATIONS</th>
<th>Learning time: 12h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Theory classes: 4h</td>
</tr>
<tr>
<td></td>
<td>Practical classes: 2h</td>
</tr>
<tr>
<td></td>
<td>Self study : 6h</td>
</tr>
</tbody>
</table>

**Related activities:**
1, 2, 3, 4, 5, 6

**Specific objectives:**
1, 2
## 4. TECHNOLOGY TRANSFER

### Description:
Purchase and sell of technology. Different methods of technology transfer. Technology alliances. The problem of technology adoption.

### Related activities:
1, 2, 3, 4, 5, 6

### Specific objectives:
1, 2

### Learning time: 6h
- Theory classes: 2h
- Practical classes: 0h
- Self study: 4h

## 5. PROTECTION OF INNOVATION

### Description:
Patent and commercial secret. Legal regime to protect inventions and innovations. Protection of distinctive signs. Licensing.

### Related activities:
1, 2, 3, 4, 5, 6

### Specific objectives:
3, 4

### Learning time: 6h
- Theory classes: 2h
- Self study: 4h

## 6. SCIENCE AND TECHNOLOGY WITHIN A TERRITORY

### Description:
R&D public programmes and policies. The Catalan framework (ACCIÓ) and the Spanish framework (CDTI). European R&D policies (FEDER, Horitzó 2020, Interreg). Clusters as a tool for competitiveness enhancement.

### Related activities:
1, 2, 3, 4, 5, 6

### Specific objectives:
4, 5

### Learning time: 6h
- Theory classes: 2h
- Practical classes: 2h
- Self study: 2h
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Qualification system

Bibliography

Basic:


Complementary:


Others resources: