240EQ323 - Pharmaceutical Biotechnology

**Coordinating unit:** 295 - EEBE - Barcelona East School of Engineering

**Teaching unit:** 713 - EQ - Department of Chemical Engineering

**Academic year:** 2017

**Degree:** MASTER'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2012). (Teaching unit Optional)

**ECTS credits:** 4.5

**Teaching languages:** Catalan, Spanish

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### Degree competences to which the subject contributes

**Generical:**
1. Possess independent learning skills to maintain and enhance the competencies of chemical engineering to enable the continued development of their profession.

**Transversal:**
2. SUSTAINABILITY AND SOCIAL COMMITMENT: Being aware of and understanding the complexity of the economic and social phenomena typical of a welfare society, and being able to relate social welfare to globalisation and sustainability and to use technique, technology, economics and sustainability in a balanced and compatible manner.
3. EFFECTIVE USE OF INFORMATION RESOURCES: Managing the acquisition, structuring, analysis and display of data and information in the chosen area of specialisation and critically assessing the results obtained.

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### Learning objectives of the subject

### Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group:</th>
<th>0h</th>
<th>0.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
<td></td>
</tr>
<tr>
<td>Hours small group:</td>
<td>40h 30m</td>
<td>36.00%</td>
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</tr>
<tr>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
<td></td>
</tr>
<tr>
<td>Self study:</td>
<td>72h</td>
<td>64.00%</td>
<td></td>
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</tbody>
</table>
## Content

| (ENG) 1. LA CIÈNCIA TERAPÈUTICA I LA INDÚSTRIA FARMACÈUTICA | Learning time: 10h  
Theory classes: 4h  
Self study: 6h |
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| (ENG) 2. FARMACOCINETICA I FARMACODINAMICA | Learning time: 15h  
Theory classes: 6h  
Self study: 9h |
| (ENG) 3. FARMACS I BIOFARMACS | Learning time: 50h  
Theory classes: 20h  
Self study: 30h |
| (ENG) 4. DISSENY DE FARMACS | Learning time: 10h  
Theory classes: 4h  
Self study: 6h |
| (ENG) 5. BIOPROCÉS FARMACÈUTIC | Learning time: 27h  
Theory classes: 11h  
Self study: 16h |

## Planning of activities

| (ENG) 1. PRODUCCIÓ D'UN BIOFÁRMAC | Hours: 20h  
Self study: 20h |
Bibliography

Basic:

