240EM122 - Design, Ecodesign and Recycling

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 702 - CMEM - Department of Materials Science and Metallurgy
Academic year: 2018
Degree: MASTER'S DEGREE IN MATERIALS SCIENCE AND ENGINEERING (Syllabus 2014). (Teaching unit Optional)
ERASMUS MUNDUS MASTER'S DEGREE IN ADVANCED MATERIALS SCIENCE AND ENGINEERING (Syllabus 2014). (Teaching unit Optional)
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ERASMUS MUNDUS MASTER'S DEGREE IN ADVANCED MATERIALS SCIENCE AND ENGINEERING (Syllabus 2009). (Teaching unit Optional)
MASTER'S DEGREE IN MATERIALS SCIENCE AND ENGINEERING (Syllabus 2014). (Teaching unit Optional)
ECTS credits: 4,5 Teaching languages: Spanish

Teaching staff
Coordinator: MARIA LLUÏSA MASPOCH RULDUA
Others: Jessica Calvo Muñoz
Jonathan Cailloux

Degree competences to which the subject contributes

Specific:
CEMCEM-04. (ENG) Realitzar estudis de caracterització, avaluació i certificació de materials segons les seves aplicacions

Transversal:
01 EIN N2. ENTREPRENEURSHIP AND INNOVATION - Level 2. Taking initiatives that give rise to opportunities and to new products and solutions, doing so with a vision of process implementation and market understanding, and involving others in projects that have to be carried out.
05 TEQ N2. TEAMWORK - Level 2. Contributing to the consolidation of a team by planning targets and working efficiently to favor communication, task assignment and cohesion.
03 TLG. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

Learning objectives of the subject

Review processes for manufacturing plastic parts
Know the principles of plastics design
Learn the basics to apply ecodesign criteria in product development
Know the principles of metals and plastics recycling
## Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group: 27h</th>
<th>24.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>13h 30m</td>
<td>12.00%</td>
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<tr>
<td>Guided activities:</td>
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<td>0.00%</td>
</tr>
<tr>
<td>Self study:</td>
<td>72h</td>
<td>64.00%</td>
</tr>
<tr>
<td>Title</td>
<td>Learning Time</td>
<td>Description</td>
</tr>
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</tr>
</tbody>
</table>
|       | 15h          | Practical classes: 4h 30m  
Laboratory classes: 1h 30m  
Self study: 9h | content english |
|       | 11h          | Practical classes: 4h 30m  
Laboratory classes: 2h  
Self study: 4h 30m | content english |
|       | 10h 30m      | Practical classes: 3h  
Laboratory classes: 3h  
Self study: 4h 30m | content english |
|       | 9h           | Practical classes: 4h 30m  
Self study: 4h 30m | content english |
|       | 15h 30m      | Practical classes: 6h  
Laboratory classes: 1h 30m  
Self study: 8h | content english |
### Bibliography

**Basic:**


**Others resources:**

- **Audiovisual material**
  - Nom recurs
    - Resource