820464 - SCMFTTCM - Computational Fluid Mechanics and Heat Transfer

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 729 - MF - Department of Fluid Mechanics
Academic year: 2018
Degree: BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits: 6

Teaching languages: Spanish

Teaching staff
Coordinator: javier Príncipe
Joan Grau Barceló
Ricardo Torres Cámara
Others: javier Príncipe
Joan Grau Barceló
Ricardo Torres Cámara

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 30h</th>
<th>20.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Hours small group: 30h</td>
<td>20.00%</td>
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<tr>
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<td>Self study: 90h</td>
<td>60.00%</td>
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Content

(ENG) - TEMA 1. INTRODUCCIÓN

Degree competences to which the content contributes:

(ENG) - TEMA 2. MODELOS MATEMÁTICOS

Degree competences to which the content contributes:

(ENG) - TEMA 3. ANÁLISIS DEL COMPORTAMIENTO DINÁMICO

Degree competences to which the content contributes:

(ENG) - TEMA 4. SISTEMAS REALIMENTADOS

Degree competences to which the content contributes:

(ENG) - TEMA 5. INTRODUCCIÓN CFD

Degree competences to which the content contributes:

(ENG) - TEMA 6. TÉCNICAS DE DISCRETIZACIÓN

Degree competences to which the content contributes:

(ENG) (CAST) - TEMA 8. SISTEMAS ACOPLADOS Y NO LINEALES

Degree competences to which the content contributes:

Bibliography