

## 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: 2019  
 Degree: BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (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 MECHANICAL ENGINEERING (Syllabus 2009). (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

Total learning time: 150h	Hours large group:	30h	20.00%
	Hours medium group:	0h	0.00%
	Hours small group:	30h	20.00%
	Self study:	90h	60.00%

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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