



Course guides

820464 - SCMFTTCM - Computational Fluid Mechanics and Heat Transfer

Last modified: 04/06/2021

Unit in charge: Barcelona East School of Engineering
Teaching unit: 729 - MF - Department of Fluid Mechanics.

Degree: BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2021 **ECTS Credits:** 6.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: javier Príncipe
Joan Grau Barceló
Ricardo Torres Cámara

Others: javier Príncipe
Joan Grau Barceló
Ricardo Torres Cámara

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

Type	Hours	Percentage
Hours large group	30,0	20.00
Hours small group	30,0	20.00
Self study	90,0	60.00

Total learning time: 150 h

CONTENTS

(ENG) -TEMA 1. INTRODUCCIÓN

(ENG) -TEMA 2. MODELOS MATEMÁTICOS

(ENG) -TEMA 3. ANÁLISIS DEL COMPORTAMIENTO DINÁMICO



(ENG) -TEMA 4. SISTEMAS REALIMENTADOS

(ENG) -TEMA 5. INTRODUCCIÓN CFD

(ENG) -TEMA 6. TÉCNICAS DE DISCRETIZACIÓN

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

GRADING SYSTEM
