29820 - Fluid Mechanics

Información del Plan Docente

Academic Year	2018/19
Subject	29820 - Fluid Mechanics
Faculty / School	110 - Escuela de Ingeniería y Arquitectura 326 - Escuela Universitaria Politécnica de Teruel
Degree	440 - Bachelor's Degree in Electronic and Automatic Engineering 444 - Bachelor's Degree in Electronic and Automatic Engineering
ECTS	6.0
Year	3
Semester	First semester
Subject Type	Compulsory
Module	---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The learning process combines theory, problems and lab sessions. We encourage the continued study of the subject thoughout the semester and the discussion of issues and less clear aspects as they arise.

A wealth of subject-specific material is available on the *Anillo Digital Docente*.

4.2.Learning tasks

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1. Theory lectures and problem-solution strategy: 30 hours

2. Practical cases: 20 hours (EINA) / 25 (EUPT)

3. Lab sessions: 10 hours (EINA) / 5 hours (EUPT)

4. Study: 83 hours

5. Exams: 7 hours

4.3.Syllabus

1. Introduction
2. The fundamental equations of Fluid Mechanics
3. Canonical flows
4. Dimensional analysis and similarity
5. Flow in duct systems
6. Boundary layers and aerodynamics

4.4.Course planning and calendar

Theory, problems and tutorials and lab sessions are in the timetables published by the School. A detailed calendar is published early in the term.

The teachers' office hours are published in the University's Anillo Digital Docente.

All the other activities are planned at the beginning of the term, and published in the University's Anillo Digital Docente.

4.5.Bibliography and recommended resources