

Academic Year/course: 2022/23

29820 - Fluid Mechanics

Syllabus Information

Academic Year: 2022/23

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

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. The learning process combines theory, problems and lab sessions. We encourage the continued study of the subject throughout 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*.

Further information and advice is provided on the first course day and on the *Anillo Digital Docente*.

4.2. Learning tasks

The course comprises the following learning activities:

1. Theory lectures and problem-solution strategy: 30 hours
2. Practical cases/problems: 20 hours (EINA) / 20 (EUPT)
3. Lab sessions: 10 hours (EINA) / 10 hours (EUPT)
4. Study: 83 hours
5. Exams: 7 hours

4.3. Syllabus

The course will address the following topics:

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 for this subject is published early in the term.

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

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