

## 29820 - Fluid Mechanics

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	110 - Escuela de Ingeniería y Arquitectura 326 - Escuela Universitaria Politécnica de Teruel
<b>Degree</b>	440 - Bachelor's Degree in Electronic and Automatic Engineering 444 - Bachelor's Degree in Electronic and Automatic Engineering
<b>ECTS</b>	6.0
<b>Course</b>	3
<b>Period</b>	First semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.Basic info**

#### **1.1.Recommendations to take this course**

#### **1.2.Activities and key dates for the course**

### **2.Initiation**

#### **2.1.Learning outcomes that define the subject**

#### **2.2.Introduction**

### **3.Context and competences**

#### **3.1.Goals**

#### **3.2.Context and meaning of the subject in the degree**

#### **3.3.Competences**

#### **3.4.Importance of learning outcomes**

### **4.Evaluation**

### **5.Activities and resources**

#### **5.1.General methodological presentation**

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* .

**5.2.Learning activities**

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

**5.3.Program**

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

**5.4.Planning and scheduling**

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.

**5.5.Bibliography and recommended resources**