

## 26626 - Didactics: Arithmetic II

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	107 - Facultad de Educación 202 - Facultad de Ciencias Humanas y de la Educación 301 - Facultad de Ciencias Sociales y Humanas
<b>Degree</b>	299 - Degree in Primary School Education 300 - Degree in Primary School Education 298 - Degree in Primary School Education
<b>ECTS</b>	6.0
<b>Course</b>	3
<b>Period</b>	Half-yearly
<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

1. The student rebuilds his knowledge referring to positive rational number and the measure of continuous quantities in Primary Education by adapting them to the professional needs of teachers.
2. The student enunciates and solves adequate arithmetic problems to introduce the different representation systems of positive rational number (fraction, decimal expression, percentage and scale) and to justify relationships and operations between positive rational numbers.
3. The student accurately uses mathematical language.
4. The student describes and assesses the successive states of knowledge and learning difficulties of primary school pupils during the acquisition process of the contents related to rational number.
5. The student analyses and designs didactical situations or resources for the learning and teaching of the positive rational number in Primary Education.

#### 2.2. Introduction

##### **Brief presentation of the subject**

"Didáctica de la aritmética II" is a 6 ECTS compulsory course, and is taught in the first term of the third year of the degree.

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"Didáctica de la aritmética II", "Didáctica de la aritmética I" y "Didáctica de la Geometría" form the subject "Enseñanza y aprendizaje de las Matemáticas" whose goal is the mathematical training of the prospective Primary school teacher, both in the mathematical and didactical aspects of the knowledge.

### **Syllabus of the subject**

-Didactical aspects of the linear magnitudes and its measure.

-Didactical aspects of the rational number: Models, representations and operations.

-Rational number arithmetic in the Primary School curriculum.

-Didactical situations or resources for the learning and teaching of the positive rational number in Primary Education.

These contents are organized in units. Inside each unit, both mathematical and didactical aspects will be studied jointly.

### **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**

#### **5.2.Learning activities**

#### **5.3.Program**

#### **5.4.Planning and scheduling**

#### **5.5.Bibliography and recommended resources**