

26620 - Didactics: Arithmetic I

Información del Plan Docente

Academic Year	2016/17
Academic center	107 - Facultad de Educación 202 - Facultad de Ciencias Humanas y de la Educación 301 - Facultad de Ciencias Sociales y Humanas
Degree	299 - Degree in Primary School Education 300 - Degree in Primary School Education 298 - Degree in Primary School Education
ECTS	6.0
Course	2
Period	Second semester
Subject Type	Compulsory
Module	---

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 natural numbers in Primary Education by adapting them to the professional needs of teachers.
2. The student accurately uses mathematical language.
3. The student solves mathematical problems involving mostly the arithmetic contents related to natural numbers.
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 natural numbers.
5. The student analyses and designs didactical situations or resources for the learning and teaching of the natural number in Primary Education.

2.2. Introduction

Brief introduction to the subject

"Didáctica de la aritmética I" is a 6 ECTS compulsory course, and is taught in the second term of the second 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

- Brief introduction about mathematics and its didactics.
- Natural number arithmetic in the Primary Education curriculum.
- Didactics of counting and the natural number as cardinal and ordinal.
- Didactics of numerical systems.
- Didactics of addition and subtraction of natural numbers.
- Didactics of multiplication and division of natural numbers.
- Didactical situations or resources for the learning and teaching of the natural 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