

26629 - Didactics: Geometry

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	3
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

In order to pass this subject, students must demonstrate the following outcomes...

1. You should be able to rethink what you have learned about Geometry until now and adapt it to your professional development.
2. You should be able to use the mathematical language in an accurate way.
3. You should be able to use geometry to solve problems in the real world.
4. You should be able to describe and assess the knowledge process and the learning difficulties related to geometry in Primary Education.
5. You should be able to study and design didactical resources and activities for the teaching and learning of geometry in Primary Education.

2.2. Introduction

Brief presentation of the subject

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Didáctica de la Geometría is a 6 ECTS compulsory course, and is taught in the second term of the second year of the degree. *Didáctica de la Aritmética I*, *Didáctica de la Aritmética II* 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

- Identification of geometric objects (plane figures and space solids).
- Transformations/movements in plane and space. Equality and symmetry.
- Design and construction of geometric figures.
- Analysis of the relationships between the geometric objects and between its elements.
- Measure of geometric magnitudes. Similarity.
- Location in plane and space
- Geometric reasoning: To define, classify, conjecture and proof.
- Modeling the world through geometry.
- Didactical resources and situations for the teaching of Geometry in Primary Education.

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