

26615 - Didactics: Physical and Chemical Media

Información del Plan Docente

Academic Year	2017/18
Faculty / School	107 - Facultad de Educación 202 - Facultad de Ciencias Humanas y de la Educación 301 - Facultad de Ciencias Sociales y Humanas
Degree	298 - Degree in Primary School Education 299 - Degree in Primary School Education 300 - Degree in Primary School Education
ECTS	6.0
Year	2
Semester	First semester
Subject Type	Compulsory
Module	---

1.General information

1.1.Introduction

Introduction to the subject

Primary physics and chemistry education is one of the two mandatory subjects, from the area of science education, which contributes to teacher training both in primary and preschool level.

This subject provides students with specific pedagogical content knowledge about the topics taught in chemistry and physics at primary level; the understanding of what makes the learning concepts easy or difficult for the students; and the conceptions and preconceptions that students usually bring into the classroom. In addition, It also pays attention to the different training needs encountered by preservice primary teachers in chemistry and physics education.

This subject is characterized by its applicability at primary level.

Contents of the subject

1. School curriculum of primary education and the chemical and physical aspects about the environment and their contribution to the development of the educative competences.
2. Teaching models and features of children's scientific thinking
3. Relevant chemical and physical content in primary education and their specific teaching and learning difficulties.
4. Experimental activities and relevant site visits for teacher education in primary school.
5. Analyzing, planning and designing learning proposals in chemical and physical primary education.
6. Introduction of scientific current topics about chemical and physical aspects.

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates**2.Learning goals****2.1.Learning goals**

In order to pass the course, student should be able to:

1. Demonstrate to have basic knowledge about the physical and chemical aspects of the environment and their application in primary education (the secondary school scientific knowledge is considered as the minimum required).
2. Write informs about the experimental activities carried out their learning.
3. Provide informed arguments and ideas based on scientific and educational criteria from the activities developed during the course, such as workshops and meetings about current topics in science education. Students also show the necessary communicative and reasoning skills in order to solve different educational situations, both practical and theoretical, during the course.
4. Design and communicate adequate learning proposals to primary level. Moreover, they should be able to integrate the different aspects learned along the subject in their proposals and justify their decisions.

2.2.Importance of learning goals**3.Aims of the course and competences****3.1.Aims of the course****3.2.Competences****4.Assessment (1st and 2nd call)****4.1.Assessment tasks (description of tasks, marking system and assessment criteria)****5.Methodology, learning tasks, syllabus and resources****5.1.Methodological overview****5.2.Learning tasks****5.3.Syllabus****5.4.Course planning and calendar****5.5.Bibliography and recommended resources**