

# Teaching guide

## IDENTIFICATION DETAILS

Degree:	Primary Education		
Field of Knowledge:	Arts and Humanities		
Faculty/School:	Education and Psychology		
Course:	EXPERIMENTAL SCIENCES AND THEIR TEACHING		
Type:	Compulsory	ECTS credits:	6
Year:	3	Code:	7433
Teaching period:	Fifth semester		
Area:	Teaching and Learning of Experimental Sciences		
Module:	Teaching and discipline		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	150		

## SUBJECT DESCRIPTION

"1. Awareness of scientific methodology applied to educational research. What to teach and how to teach Natural Sciences in primary school. Knowledge of the main issues related to the physical and natural world that surrounds students, the applications of which have a great impact on our society. Teaching experimental sciences."

## SKILLS

### Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general

secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

## General Skills

To be familiar with the syllabus areas for primary education, the interdisciplinary relationship between them, assessment criteria and the body of didactic knowledge applicable to teaching and learning procedures.

To reflect on classroom practices to innovate and improve teaching activity. To acquire habits and skills for independent, cooperative learning and to foster and promote this learning process among students.

To develop analytical, synthetic, reflective, critical, theoretical and practical thought.

To design, plan and evaluate teaching and learning processes, both individually and in cooperation with other teachers and school professionals.

## Specific skills

To understand the basic principles and fundamental laws of the experimental sciences (physics, chemistry, biology and geology).

To address and solve problems related to sciences in daily life.

To appreciate sciences as a cultural fact.

To recognise the mutual influence that exists between science, society and technological development, as well as any relevant public behaviour, in order to strive for a sustainable future.

To develop and evaluate syllabus content using suitable teaching resources and to promote the acquisition of basic skills among students.

## DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
60 hours	90 hours