

# Teaching guide

## IDENTIFICATION DETAILS

Degree:	Primary Education		
Field of Knowledge:	Social and Legal Science		
Faculty/School:	Education and Psychology		
Course:	MATHEMATICS AND ITS TEACHING I		
Type:	Compulsory	ECTS credits:	6
Year:	2	Code:	7422
Teaching period:	Third semester		
Area:	Teaching and Learning of Mathematics		
Module:	Teaching and discipline		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	150		

## SUBJECT DESCRIPTION

In the current process of educational renewal, the Teaching of Mathematics is understood to be one of the great areas of work for educators that will help them to develop a teaching-learning process in Primary Education. This is not random, however, and includes: a creativity development process, innovation, understanding and skills resulting from an exchange in which students are a significant active factor of discovery in the search for meaning in our surroundings based on mathematical knowledge and basic skills for working in the surrounding reality.

## 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 gain basic mathematical skills (numbers, calculus, geometry, spatial representation, estimation and measurement, organisation and interpretation of information, etc.).

To be familiar with the school syllabus for mathematics.

To analyse, reason and communicate mathematical proposals.

To raise and solve problems associated with everyday life.

### DISTRIBUTION OF WORK TIME

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