

# Teaching guide

## IDENTIFICATION DETAILS

Degree:	Child Education		
Field of Knowledge:	Arts and Humanities		
Faculty/School:	Education and Psychology		
Course:	DEVELOPMENT OF LOGICAL-MATHEMATIC THOUGHT		
Type:	Compulsory	ECTS credits:	6
Year:	3	Code:	7332
Teaching period:	Fifth semester		
Area:	Learning of Natural Sciences, Social Sciences and Mathematical Sciences		
Module:	Teaching and discipline		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	150		

## SUBJECT DESCRIPTION

The main objective of the course is to equip students with the necessary skills to generate programmes and activities suitable for the development of mathematical logical thinking in infant education. The course therefore involves content which enables students to identify and appreciate the aspects of the development of mathematical-logical thinking and to have the strategies and resources necessary for their implementation in the classroom.

## 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 goals, syllabus content and assessment criteria of early childhood education

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

To promote and encourage learning in early childhood, from a comprehensive, inclusive perspective encompassing the various cognitive, emotional, psychomotor and volitional dimensions.

### **Specific skills**

To be familiar with the scientific, mathematical and technological foundations of the syllabus of this stage, as well as the theories on the acquisition and development of the respective knowledge gained.

To be familiar with the teaching strategies for developing numerical representations and spatial, geometric and logical development notions.

### **DISTRIBUTION OF WORK TIME**

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