

SUBJECT TEACHING GUIDE

G304 - Mathematics for Primary School Teachers

Double Degree in Teaching in Early Childhood Education and Primary Education First Degree in Primary Education Teaching

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Double Degree in Teaching in Early Childhood Education and Primary Education First Degree in Primary Education Teaching			Type and Year	Core. Year 1 Core. Year 1
Faculty	School of Teacher Training				
Discipline	Subject Area: Teaching and Learning of Mathematics Module: Training in Teaching and the Discipline				
Course unit title and code	G304 - Mathematics for Primary School Teachers				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Knowledge Field					
Web	http://moodle.unican.es/course/view.php?id=2406				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. MATEMATICAS, ESTADISTICA Y COMPUTACION
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Other lecturers	NEILA EMMA CAMPOS GONZALEZ LARA GONZALEZ DE COS STEVEN JOHAN MARIA VAN VAERENBERGH JUNCAL GOÑI CERVERA AMAYA GARCIA ZULUETA

4. OBJECTIVES

To acquire basic mathematical skills: numerical, calculation, geometric, visualization, estimation and measurement.
To analyze, reason and communicate mathematical proposals.
To solve mathematical problems involving mathematical notions specific to primary school, but at the level required for the future teacher.
To value the relationship between mathematics and science as one of the pillars of scientific thought.

6. SUBJECT PROGRAM

CONTENTS

1	<p>Similarity: Basic concepts of geometry. Equality of polygons. Proportionality. Similarity of triangles and polygons.</p> <p>Magnitudes: Areas of figures constructed in frames or with tangram. Areas of plane and spatial figures.</p>
2	<p>Divisibility: Euclidean division, greatest common divisor and least common multiple, divisibility criteria. Euclidean method.</p> <p>Fractions: Fractions in different contexts, decimal representation of rational and irrational numbers.</p>
3	Final exam.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
At 5th week approximately.	Others	No	Yes	20,00
At 10th week approximately.	Others	No	Yes	20,00
Between the 16th and 18th weeks. A minimum grade of 4 must be obtained to pass the course.	Written exam	Yes	Yes	60,00
TOTAL				100,00
Observations				
<p>Two continuous assessment activities will be conducted in the classroom around the fifth and tenth weeks of the course . Each of these activities will account for 20% of the grade obtained in the regular assessment period.</p> <p>The final exam, which will cover the entire course content, will carry a weight of 60% of the final grade. A minimum grade of 4 (out of 10) must be obtained in this exam to pass the course. Students who wish to do so may take a recovery test for the continuous assessment activities, forfeiting their previous grade.</p> <p>Students who do not pass during the regular period may take a single exam covering the course content during the extraordinary period.</p> <p>ASSESSMENT/EVALUATION Article 35.- If a student does not obtain the grade minimum required to pass an evaluation test, the overall grade for the subject will be the lowest value between 4.9 and the weighted average of all assessment tests.</p> <p>-----</p> <p>The Faculty of Education has approved the following agreements regarding Spelling, plagiarism, and citation rules.</p> <p>SPELLING It is understood that university students have assumed linguistic abilities in relation to oral and written expression. Therefore, correct spelling and grammar in the work and exams is an essential condition to pass the course.</p> <p>FRAUDULENT PERFORMANCE OF TESTS OR EVALUATION ACTIVITIES Article 32. Penalty. The fraudulent performance of the tests or evaluation activities will directly result in the failure grade '0' in the subject in the corresponding call, thereby invalidating any grade obtained in all the evaluation activities for the extraordinary call. This circumstance will be communicated to the Center.</p> <p>CITATION RULES The APA Standards are assumed as a citation criterion for all academic works . Although these standards have different editions, as a starting point, students are referred to the following link of the BUC: http://web.unican.es/buc/recursos/guias-y-tutoriales/guia?g=28</p>				
Observations for part-time students				
<p>Article 24. (...) the student may undergo a single evaluation process. The single evaluation will entitle the student to obtain the same grade as the students who undergo continuous evaluation processes. The single assessment may consist of taking an exam or/and the delivery of work, exceptionally being able to establish the obligation to attend and pass certain face-to-face activities (laboratory classes, clinical practices, seminars, etc.</p>				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Rico, L., & Segovia, I. (2011). Matemáticas para maestros de Educación Primaria. Pirámide. Madrid.

Díaz Godino, J. Monografías Edumat-Maestros. <http://www.ugr.es/~jgodino/edumat-maestros/welcome.htm>

Colección "Matemáticas: Cultura y Aprendizaje" de la Editorial Síntesis:

- M. Sierra, Divisibilidad, Ed. Síntesis, Madrid, 1989.

- S. Llinares, M.V. Sánchez, Fracciones : la relación parte-todo, Ed. Síntesis, Madrid, 1988.

- R. Luengo (Coordinador), Proporcionalidad geométrica y semejanza / Grupo Beta, Ed. Síntesis, Madrid, 1990.