

SUBJECT TEACHING GUIDE

G304 - Mathematics for Primary School Teachers

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

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Double Degree in Teaching in Early Childhood Education and Primary Education 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)		
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				
Name of lecturer	RAUL FERNANDEZ COBOS				
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Other lecturers	NEILA EMMA CAMPOS GONZALEZ LARA GONZALEZ DE COS STEVEN JOHAN MARIA VAN VAERENBERGH JUNCAL GOÑI CERVERA				

3.1 LEARNING OUTCOMES

- To demonstrate, through problem solving, having acquired the basic mathematical knowledge that the teacher needs, corresponding to the Primary blocks: numerical, geometric, and magnitudes and measures.
- To present clearly the analysis and the strategies used to solve a mathematical problem.

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

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Continuous assessment test of part 1 (similarity and measurement). At 9th week approximately, during the period of lessons.	Others	No	Yes	50,00
Final exam. At the end of term, during the exam period.	Written exam	Yes	Yes	50,00
TOTAL				100,00

Observations

The final exam will include the contents of blocks 1 and 2. Each block will be graded independently and it will be necessary to obtain at least a 4 (out of 10) in each of them to pass. Students who obtain at least a 4 (out of 10) in the continuous assessment test of block 1 (during the period of lessons) will not be obliged to take this block in the final exam; although they may choose to take it if they wish to improve their grade, in which case they will not retain their previous grade. Students who do not pass in the ordinary period may take an exam in the extraordinary period on the contents of blocks 1 and 2. The grades obtained in the different blocks during the regular exam session are not saved for the extraordinary period .

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.

The Faculty of Education has approved the following agreements regarding Spelling, plagiarism, and citation rules.

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.

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.

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>

Observations for part-time students

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.

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. Linares, 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.