

SUBJECT TEACHING GUIDE

M1508 - Functional Analysis

Master's Degree in Mathematics and Computing

Academic year 2022-2023

1. IDENTIFYING DATA					
Degree	Master's Degree in Mathematics and Computing			Type and Year	Optional. Year 1
Faculty	Faculty of Sciences				
Discipline					
Course unit title and code	M1508 - Functional Analysis				
Number of ECTS credits allocated	3	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. MATEMATICAS, ESTADISTICA Y COMPUTACION				
Name of lecturer	MANUEL GONZALEZ ORTIZ				
E-mail	manuel.gonzalez@unican.es				
Office	Facultad de Ciencias. Planta: + 0. DESPACHO PROFESORES (0053)				
Other lecturers					

3.1 LEARNING OUTCOMES

- Introduction to research in functional analysis.

4. OBJECTIVES

Introduction to the study of isomorphic properties of Banach spaces.

6. COURSE ORGANIZATION

CONTENTS

1	Bases and basic sequences in Banach spaces. Special types of bases. Application: some isomorphic properties of $C[0,1]$, L_p , l_p and c_0 .
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7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
A written exam.	Written exam	No	Yes	50,00
A written presentation.	Work	No	Yes	50,00
TOTAL				100,00
Observations				
Observations for part-time students				
Partial time students may choose to take only the final exam.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

F. Albiac and N.J. Kalton. Topics in Banach space theory. Springer 2006.