

## SUBJECT TEACHING GUIDE

### 336 - Functional Analysis

#### Master's Degree in Mathematics and Computing

Academic year 2023-2024

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	336 - 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.