

## SUBJECT TEACHING GUIDE

### 608 - Traffic and Road Safety Engineering

#### Master's Degree in civil Engineering, Canal and Port Engineering

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Master's Degree in civil Engineering, Canal and Port Engineering			Type and Year	Optional. Year 2
Faculty	School of civil Engineering				
Discipline	SPECIALITY IN TRANSPORT, URBAN PLANNING AND LAND MANAGEMENT				
Course unit title and code	608 - Traffic and Road Safety Engineering				
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. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS				
Name of lecturer	ANGEL VEGA ZAMANILLO				
E-mail	angel.vega@unican.es				
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 0. DESPACHO (0073)				
Other lecturers	MIGUEL ANGEL CALZADA PEREZ				

### 3.1 LEARNING OUTCOMES

- Signage design and road safety
- Calculation of the Level of service in road infrastructures
- Calculation of the Service Level in knots

### 4. OBJECTIVES

- Acquire knowledge related to road signage and safety
- Design road infrastructures
- Knowledge of urban traffic

## 6. COURSE ORGANIZATION

CONTENTS	
1	-Road safety: indices and variables. -Vehicle containment systems: typology -Traffic calming -Signaling: -Theory of traffic in stable and unstable circulation .
2	-Capacity and service level of intersections regulated by STOP signs □-Capacity and level of service of roundabouts□-Capacity and level of service of intersections regulated by traffic lights .□-Coordination of traffic lights

## 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Theoretical proof	Written exam	No	Yes	40,00
Exercise proof	Others	No	Yes	40,00
Subject work	Work	No	No	20,00
TOTAL				100,00

### Observations

Values in each recoverable test between 3.5 and 4.9, would allow to make the weighted average in both the ordinary and extraordinary call.

The grades between 3.5 and 4.9 in the ordinary call are not maintained for the extraordinary call.

- In the event that an early call is granted, the evaluation of the subject will be complete. It will consist of a theory part, with a weight of 40% of the final grade; and another of exercises with a weight of 40% total. In addition, a work with a weight of 20% of the total grade will be delivered. To be able to perform the average it will be necessary to obtain at least a 3.5 in each of the parts. No part of the subject will be released for future exams.

Note: According to Royal Decree RD 1125/2003 on the European credit system and the qualification system in university degrees of an official nature and valid throughout the national territory , the results obtained by the student in each of the subjects of the curriculum will be graded according to the following numerical scale from 0 to 10, with an expression of one decimal place, to which may be added its corresponding qualitative rating:

0.0-4.9: Suspense (SS).

5.0-6.9: Approved (AP).

7.0-8.9: Notable (NT).

9.0-10: Outstanding (SB).

### Observations for part-time students

Part-time students will be able to examine the two recoverable tests in the ordinary and extraordinary calls.

The work will be delivered at the end of the quarter.

If a grade of at least 5 is achieved in any of the two tests of the ordinary call, it will be released for the extraordinary call.

The conditions to pass the subject are the same as those included in the previous section of observations.

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

### BASIC

Apuntes de clase

Normativa y Recomendaciones vigentes

