SUBJECT TEACHING GUIDE

619 - Methods of Territorial Planning and Mobility

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

Academic year 2026 - 2027

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	619 - Methods of Territorial Planning and Mobility				
Number of ECTS credits allocated	3	Term		Semester based (2)	
Knowledge Field	Architecture, construction, building and urban planning, civil engineering				
Web	https://web.unican.es/estudios/detalle-asignatura?c=619&pi=213&a=2026				
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	SOLEDAD NOGUES LINARES
E-mail	soledad.nogues@unican.es
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 2. DESPACHO INDIVIDUAL (2016)
Other lecturers	JOSE LUIS MOURA BERODIA MARIA ESTHER GONZALEZ GONZALEZ

4. OBJECTIVES

- Handling, interpreting and drafting planning documents on a regional scale.
- Apply methods and techniques of spatial analysis and diagnosis to real cases.
- Make proposals and forecasts on the future development of territories and integrate these results into planning processes.
- Make and evaluate proposals on the mobility system on an inter-urban and regional scale.

6. SUBJECT PROGRAM

CONTENTS	
1	PART 1. SPATIAL PLANNING Section 1. Spatial and transport planning

2	Section 2. Spatial analysis and geographical information systems
3	PART 2. REGIONAL MOBILITY Section 3. Simulation methods and proposal design
4	Section 4. Evaluation and decision-making methods

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessment	%
Written exam (Part 1)	Written exam	No	Yes	10,00
Work (Part 1)	Work	No	Yes	40,00
Written exam (Part 2)	Written exam	No	Yes	10,00
Work (Part 2)	Work	No	Yes	40,00
TOTAL				100,00

Observations

The assessment will be continuous and there will be no exam. The course is divided into two parts, each of which includes a written exam and a work component. The written exams will account for 10% in each part (20% in total) of the final mark. Work, which may be individual and/or group-based, is structured into two parts: the first, related to spatial planning, and the second, linked to mobility planning, each accounting for 40% (80% in total) of the final mark. In the continuous assessment, class attendance is compulsory and will be monitored, requiring a minimum attendance of 85%. In case of non-compliance, the student loses the continuous assessment and may be examined by written exam in in the official evaluation session. All activities carried out in the classroom during the teaching period will be included in the evaluation and may be subject to examination. Both parts will be recoverable at the extraordinary official special convocation by taking a written exam on the content of the course.

With regard to the advanced assessment of the subject (November and/ or April), to which students with 12 ECTS or less pending to finish the degree are entitled, there will be a single exam of 100% of the subject without the need to attend the official exams.

Only for duly justified reasons (e.g. health restrictions), assessment tests may be organised online, with the prior authorisation of the School Management Unit.

Note: According to Royal Decree RD 1125/2003 on the European credit system and the grading system for official University degrees valid throughout Spain, the results obtained by the student in each of the subjects of the syllabus will be graded according to the following numerical scale from 0 to 10, to one decimal place, to which the corresponding qualitative grade may be added: 0.0-4.9: Fail (SS); 5.0-6.9: Pass (AP); 7.0-8.9: Good (NT); 9.0-10: Outstanding (SB).

Observations for part-time students

Part-time students will be exempt from class attendance, and will be evaluated via written exams.

The attention and evaluation of students enrolled part-time in the Master will be carried out in accordance with the UC Regulations for such cases.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

DE LA CRUZ MERA, Á., y MADURGA CHORNET, Mª I. (2019): Los Instrumentos de Ordenación del Territorio en España. Estudio comparado de la legislación y los instrumentos vigentes. Ciudad y Territorio Estudios Territoriales, 51(199), 175-200.
GALIANA MARTÍN, L. y VINUESA ANGULO, J. (Coords.) (2010): Teoría y práctica para una ordenación racional del territorio. Ed. Síntesis. Madrid.
GÓMEZ OREA, D. y GÓMEZ VILLARINO, A. (2014): Ordenación Territorial. Editorial Mundi-Prensa Libros, Madrid.
CORDERA, R., IBEAS, A., DELL'OLIO, L. y ALONSO, B. (2017): Land Use - Transport Interaction Models. CRC Press.