

Degree	Type	Year
Management of Smart and Sustainable Cities	OB	3

## Contact

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## Teaching groups languages

You can view this information at the [end](#) of this document.

## Prerequisites

There are no prerequisites.

## Objectives and Contextualisation

This subject has as its general objective the study of mobility and transport within the framework of the new sustainability paradigm. More specifically, the following specific objectives are set:

- Know the basic concepts of mobility
- Understand the complex relationship between mobility and territory
- Know the limits and impacts associated with the current mobility model
- Understand and be able to predict the positive and negative externalities of future developments in the field of mobility and transport
- Know the main methodologies for studying mobility
- Know the necessary instruments and their methodologies for planning and managing mobility

## Learning Outcomes

1. CM12 (Competence) Apply innovative solutions to solve urban planning problems in the context of professional practice.
2. KM16 (Knowledge) Analyse the urban environment from the point of view of the Circular Economy and Sustainability.
3. SM15 (Skill) Use maps and Earth observation images to carry out regional interpretations.

## Content

Block 1. KNOW: Sustainable, safe, healthy, equitable and inclusive mobility (Theoretical and conceptual framework)

- What is mobility?
- The evolution of mobility

- Means of transport
- Factors determining the forms of mobility
- The costs of mobility
- Right to the city and mobility
- Vulnerable groups in mobility
- Active mobility
- Climate change and mobility
- Mobility and energy
- Equity in mobility
- Inclusive mobility
- Mobility and health
- Mobility with a gender perspective
- Public space and mobility
- Mobility and economy
- The street as a multifunctional space
- Urban quality and outdoor spaces
- Rural and/or suburban areas and mobility
- Rural and/or suburban areas and mobility
- Future scenarios

#### Block 2. OBSERVE AND ANALYZE (Intervention and analysis methodologies)

- Sources for studying mobility
- What to observe and how to observe: observation and analysis methods and techniques
- Statistical analysis: variables, sources of information...
- Qualitative methods
- Observation of public space

#### Block 3. DEBATE (Knowledge and positioning in today's controversies)

- Electric vehicles and tech solutions: a real solution?
- Road safety education: at school or at driving school?
- 'If you don't want cars, go live in the countryside'
- The right to park (or not)
- ZBE, urban tolls or paying to park: 'communism or freedom'?
- Motorbikes on the sidewalks? An open debate
- The tram on Diagonal?
- 'The bicycle is the slow death of our economy (and walking is even worse, pedestrians don't even buy a bicycle)'

#### Block 4. ACT (Tools and methods of intervention)

- New priorities in road design
- Public space and urban quality: living spaces
- Traffic moderation and pacification
- Pedestrian zones
- The cycle network
- Mobility planning

## Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Master classes	37	1.48	CM12, KM16, SM15, CM12
Practice sessions and class debates	20	0.8	CM12, KM16, SM15, CM12

Type: Supervised

Coursework	20	0.8	CM12, KM16, SM15, CM12
Individual or small group tutoring	10	0.4	CM12, KM16, SM15, CM12
Type: Autonomous			
Preparation of written tests	18	0.72	CM12, KM16, SM15, CM12
Readings	18	0.72	CM12, KM16, SM15, CM12

## Methodology

The teaching methodology will consist of:

- Theoretical classes
- Debate sessions and critical analysis of multimedia supports
- Active participation in class debates
- Presentation of the work
- Course practices
- Visit to the 'Smart City Expo World Congress' which will be held between 4 and 6 November 2025 at the Fira Barcelona Gran Via in L'Hospitalet de Llobregat. The visit is mandatory and is linked to one of the practices and the course work. Access to the SCEWC will not cost students anything.

The Virtual Campus (Moodle) will be used as a virtual platform for communication with students.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Assessment

### Continuous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Coursework	40%	14	0.56	CM12, KM16, SM15
Exam	30%	3	0.12	CM12, KM16, SM15
Practices	30%	10	0.4	CM12, KM16, SM15

### Continuous assessment

A continuous assessment system is established with various assessable activities that will allow the teaching staff to continuously monitor the students and the students to know their progress throughout the course.

In order to be assessed, it will be necessary to:

- a) Have completed each and every one of the stipulated assessment activities (exam, practices and coursework)
- b) Obtain a minimum grade of 4 in each of the stipulated assessment blocks (exam, practices and coursework)
- c) In the case of practical exercises, practices not presented will have a grade of 0 (zero).

#### Specific aspects

The submission of an assessment activity outside the established deadline will result in a maximum grade of 5.

In the event that the late submission is due to a force majeure cause (which must be duly justified), the grade will be made out of 10.

The subject will be considered failed when the overall grade, after applying the percentages of each assessment activity, is less than 5.

The student will receive the grade of Not assessable when they have not completed the stipulated exam, practices or coursework.

This subject/module does not provide for the single assessment system.

The criteria for granting Honors are those established by UAB regulations (<https://www.uab.cat/Document/543/151/MH.pdf>).

#### Review of grades

Once the grade for each assessment activity has been announced, a period of 10 days will be established to review the grades.

For each assessment activity, the most appropriate review format will be announced: face-to-face, online, etc.

#### Recovery

At the end of the school period, a recovery of each of the stipulated assessment activities will be carried out. To participate in the recovery, students must have previously been evaluated in a set of activities whose weight is equivalent to a minimum of 2/3 of the total grade. To participate in the recovery process, the student is required to have obtained a minimum final grade of at least 4.

A maximum period of 15 days is established for the new submission of recoverable activities (provided that they have been submitted within the established deadline and do not exceed any of the deadlines indicated by the degree coordination, especially the closing date of events).

#### Repeaters

No differentiated treatment is established in the criteria and evaluation mechanisms for repeaters.

#### Plagiarism

Copying or plagiarizing material, both in the case of assignments and exams, constitutes a crime that will be sanctioned with a zero for the activity. In case of a repeat offense, the entire subject will be suspended. Remember

that a work that reproduces all or a large part of the work of another colleague is considered "copying". "Plagiarism"

is the act of presenting all or part of a text by an author as one's own, without citing the sources, whether on paper or in digital format. See UAB documentation on "plagiarism" at: [http://wuster.uab.es/web\\_argumenta\\_obert/unit\\_20/sot\\_2\\_01.html](http://wuster.uab.es/web_argumenta_obert/unit_20/sot_2_01.html).

In the event that the student commits any irregularity that could lead to a significant variation in the grade of an assessment act, this assessment act will be graded with 0, regardless of the disciplinary process

that may be initiated. In the event that several irregularities occur in the assessment acts of the same subject, the final grade for this subject will be 0.

#### Specific casuistics

In the event that the tests cannot be taken in person, their format will be adapted (maintaining their weighting) to the possibilities offered by the UAB's virtual tools. Homework, activities and class participation will be done through forums, wikis and/or exercise discussions through Teams, etc. The teacher will ensure that the student can access them or will offer them alternative means, which are within their reach.

## Bibliography

The bibliography and webography that will be used for the development of the subject will be specified on the Moodle platform as the progress of the course requires it.

## Software

None specific.

Office package or similar is recommended.

Will work with AI tools.

## Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.

Name	Group	Language	Semester	Turn
(PAUL) Classroom practices	611	Catalan	first semester	afternoon
(PCAM) Field practices	611	Catalan	first semester	morning-mixed
(PCAM) Field practices	612	Catalan	first semester	morning-mixed
(TE) Theory	6	Catalan	first semester	afternoon