

Mobility, Transport and Region. Planning and Management

Code: 44467
ECTS Credits: 6

Degree	Type	Year	Semester
4317118 Global East Asian Studies	OT	0	1
4317520 Territorial Studies and Planning	OT	0	1

Contact

Name: Oriol Marquet Sardà

Email: oriol.marquet@uab.cat

Teaching groups languages

You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject. Please note that this information is provisional until 30 November 2023.

Teachers

Joaquin Recaño Valverde

Prerequisites

There are no prerequisites

Objectives and Contextualisation

This subject aims to study mobility and transport within the framework of the new paradigm of sustainability. More specifically, the following specific objectives are raised.

- 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 terms of mobility and transport
- Know the main methodologies of study of mobility
- Know the necessary instruments and their methodologies for the management of mobility

Learning Outcomes

- CA11 (Competence) Promote the application and progress of the principles of ecological, social and economic sustainability from the gender perspective as part of a research project.
- CA12 (Competence) Show different models and examples of mobility-related problems using environmental mapping.
- CA13 (Competence) Promote the application and advancement of the principles of ecological, social and economic sustainability from a gender perspective in a research project.
- CA13 (Competence) Offer urban mobility proposals for a project based on environmental considerations that improve comfort and mitigate deterioration.
- CA14 (Competence) Generate different models and scenarios of mobility-related problems through environmental mapping.
- CA15 (Competence) Establish urban mobility proposals in a project based on environmental premises that improve comfort and offer protection from deterioration.
- KA08 (Knowledge) Recognise the interaction between demographic dynamics and settlement structures with mobility demands in urban planning.
- KA09 (Knowledge) Identify sources of information and databases on population, travel and transport modes.
- KA10 (Knowledge) Recognise urban models (compact, diffuse, gravitational, etc.) and their impact on sustainable mobility.
- KA11 (Knowledge) Understand how demographic dynamics and settlement structures interact with mobility demands in urban planning.
- KA12 (Knowledge) Identify sources of information and databases on population, travel and modes of transport.
- KA13 (Knowledge) Recognise urban models (compact, diffuse, gravitational, etc.) and how they impact sustainable mobility.
- SA08 (Skill) Assess the impact of mobility on territorial and planning studies regarding the environment, society and the city.
- SA09 (Skill) Integrate the benefits of cartography by using various GIS for spatial resolution.
- SA10 (Skill) Build environmentally responsible and sustainable mobility models for different social situations.
- SA16 (Skill) Assess the impact of mobility in territorial and planning studies at different levels: environment, society and city.
- SA17 (Skill) Integrate the usefulness of mapping through the use of various GIS in spatial resolution.
- SA18 (Skill) Construct environmentally responsible and sustainable mobility models for different social situations.

Content

1. Introduction to mobility

1.1 What is mobility?

1.2 The evolution of mobility: farther, faster, more distance

2. The means of transport

2.1 The means of transport: the instruments to move

2.2 Access to means of transport

2.3 Transport for all

3. The main determinants of the forms of mobility and transport

3.1 Mobility and urban form

3.2 Mobility and socioeconomic factors

3.3 Habits, ideology and beliefs behind modes of transport

4. The costs of mobility

4.1 Environmental costs

4.2 Social costs

4.3 Health costs

4.4 Economic costs

5. Future scenarios: challenges and solutions in the context of the Smart City

5.1 Defining the objectives of the future mobility model

5.2 Clean technologies

5.3 Automation

5.4 Personal mobility vehicles

5.5 Utopias

6. Sources for studying mobility

6.1. Quantitative sources in the study of supply

6.2. Quantitative sources in the study of demand

6.3. Qualitative sources in the study of mobility

Methodology

The subject will be structured based on directed and autonomous activities, where students will learn interactively with the contents of the program, with the help and support of the teacher.

The subject includes classes led by the teacher, exhibitions and discussions of students, with the collaboration of external experts from different fields.

All the activities in class will have a bibliographic support that the students will have at the beginning of the course. Activities that cannot be done in person will be adapted to the possibilities offered by the UAB's virtual tools. The exercises, projects and theoretical classes will be carried out through virtual tools, such as tutorials, videos, team sessions, etc. The teacher will ensure that the student can access it or offer alternative means, which are available to them.

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.

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Activities



Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Theoretical classes	10	0.4	CA11, CA12, KA08, KA09, SA08, SA09, CA11
Type: Supervised			
Class exhibitions	10	0.4	CA13, CA13, KA10, KA11, SA10, SA16
Preparation of a job	36	1.44	CA14, CA15, KA12, KA13, SA18, CA14
Type: Autonomous			
Readings of articles or books of the subject	26	1.04	CA15, KA13, SA18, CA15

Assessment

La evaluación se hará sobre la siguiente base:

- Exposiciones en clase por parte de los alumnos: 30%
- Examen: 40%
- Participación en clase (la asistencia es obligatoria): 10%
- Asistencia y participación en actividades dirigidas: 20%

Evaluación única

- Las exposiciones en clase se sustituirán por presentaciones grabadas en vídeo: 30%
- Examen: 40%
- Las actividades dirigidas se sustituirán por trabajos: 30%

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Assistance and participation in guided activities	20%	15	0.6	CA11, CA12, KA08, KA09, SA08, SA09
Classroom exhibitions	30%	15	0.6	CA13, KA10, KA11, SA10, SA16
Classroom participation	10%	8	0.32	CA13, KA11, SA16
Written assessment test	40%	30	1.2	CA14, CA15, KA12, KA13, SA16, SA17, SA18

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Software

None in specific