

| Degree | Type | Year |
|--|------|------|
| 4317118 Global East Asian Studies | OT | 0 |
| 4317520 Territorial Studies and Planning | OT | 0 |

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 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

1. 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.
2. CA12 (Competence) Show different models and examples of mobility-related problems using environmental mapping.
3. CA13 (Competence) Promote the application and advancement of the principles of ecological, social and economic sustainability from a gender perspective in a research project.
4. CA13 (Competence) Offer urban mobility proposals for a project based on environmental considerations that improve comfort and mitigate deterioration.
5. CA14 (Competence) Generate different models and scenarios of mobility-related problems through environmental mapping.

6. CA15 (Competence) Establish urban mobility proposals in a project based on environmental premises that improve comfort and offer protection from deterioration.
7. KA08 (Knowledge) Recognise the interaction between demographic dynamics and settlement structures with mobility demands in urban planning.
8. KA09 (Knowledge) Identify sources of information and databases on population, travel and transport modes.
9. KA10 (Knowledge) Recognise urban models (compact, diffuse, gravitational, etc.) and their impact on sustainable mobility.
10. KA11 (Knowledge) Understand how demographic dynamics and settlement structures interact with mobility demands in urban planning.
11. KA12 (Knowledge) Identify sources of information and databases on population, travel and modes of transport.
12. KA13 (Knowledge) Recognise urban models (compact, diffuse, gravitational, etc.) and how they impact sustainable mobility.
13. SA08 (Skill) Assess the impact of mobility on territorial and planning studies regarding the environment, society and the city.
14. SA09 (Skill) Integrate the benefits of cartography by using various GIS for spatial resolution.
15. SA10 (Skill) Build environmentally responsible and sustainable mobility models for different social situations.
16. SA16 (Skill) Assess the impact of mobility in territorial and planning studies at different levels: environment, society and city.
17. SA17 (Skill) Integrate the usefulness of mapping through the use of various GIS in spatial resolution.
18. 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

Activities and Methodology

| Title | Hours | ECTS | Learning Outcomes |
|--|-------|------|-------------------|
| Type: Directed | | | |
| Theoretical classes | 10 | 0.4 | |
| Type: Supervised | | | |
| Class exhibitions | 10 | 0.4 | |
| Preparation of a job | 36 | 1.44 | |
| Type: Autonomous | | | |
| Readings of articles or books of the subject | 26 | 1.04 | |

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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Assessment

Continuous Assessment Activities

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

The evaluation will be based on the following criteria:

Class presentations by students: 30%

Exam: 40%

Class participation (attendance is mandatory): 10%

Attendance and participation in directed activities: 20%

A "not assessable" grade will be assigned if the student has not submitted more than 30% of the assessment activities.

Single evaluation

Class presentations will be replaced by recorded video presentations: 30%

Exam: 40%

Directed activities will be replaced by assignments: 30%

The evaluation will consist of retaking the exam.

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Software

None in specific

Language list

| Name | Group | Language | Semester | Turn |
|-----------------------|-------|----------|----------------|-----------|
| (TEm) Theory (master) | 1 | Catalan | first semester | afternoon |