

Degree programme	Type	Course
Geography, Environmental Management and Regional Planning	OB	3

Contact lecturer

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Teaching staff

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Group languages

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

Prerequisites

To take this course, students must have a command of Catalan and/or Spanish at level B2 or higher.

The course is designed for third-year students and therefore assumes that the knowledge taught in first- and second-year subjects has already been acquired.

Proficiency in the use of Geographic Information Systems (GIS) is essential.

Objectives

This is a compulsory third-year course, part of the "Territorial Planning" subject area.

The main objective of the course is for students to acquire the necessary knowledge to implement a planning process in rural areas, as well as to assess their physical environment.

To achieve this, the course sets out the following specific objectives:

- Understand the instruments of territorial planning for non-urbanizable land.
- Deepen knowledge of the concepts of planning, land-use regulation, and environmental assessment.
- To learn how to interpret information related to physical geography in relation to the various aspects of its planning.
- Assess mitigation and adaptation policies related to climate change
- Develop and apply planning and environmental assessment processes in specific cases.
- To study a specific plan within the rural sector.

Learning outcomes

- CM20 (Develop a municipal plan that includes proposals for mitigation and/or adaptation to climate change or drought emergency.) Develop a municipal plan that includes proposals for mitigation and/or adaptation to climate change or drought emergency.
- KM29 (Introduce the theoretical and applied aspects of the main territorial, environmental and urban policies in a study related to spatial planning.) Introduce the theoretical and applied aspects of the main territorial, environmental and urban policies in a study related to spatial planning.
- KM34 (List the basic regional, environmental and urban regulations corresponding to each responsible administration, with reference to Catalonia.) List the basic regional, environmental and urban regulations corresponding to each responsible administration, with reference to Catalonia.
- SM26 (Evaluate mitigation and adaptation policies to global change processes.) Evaluate mitigation and adaptation policies to global change processes.

Contents

1. Introduction

1.1 Definition and fundamental concepts

1.2 Importance of planning, spatial planning, and evaluation in the territorial context

1.3 Relationship between planning, spatial planning, and evaluation

2. Types of planning and plans in non-urban areas

2.1 Planning process

2.2 Territorial Plans

2.3 Urban Plans (actions on non-developable land)

2.4 Landscape Impact and Integration Studies

2.5 Transport and Energy

2.6 Irrigation Plans and Livestock Waste Management Plan

2.7 Plan for Spaces of Natural Interest (Special Protection Natural Spaces and Natura 2000 Network)

2.8 Sectoral Territorial Plan for Wind, Photovoltaic, and Electricity Generation (PLATER)

2.9 Drought, Sanitation, and Flood Risk Plan

3. To organize, one must know what needs to be organized

3.1 What humans do in non-built spaces

3.2 Activities on non-developable land in Catalonia

3.3 Why there is less planning in open spaces

3.4 Private interest vs. public interest and the dominant economic system in non-developable land planning

3.5 Planning for growth or for degrowth

4. Climate and water assessment for adaptation and management

- 4.1 Definition, importance, and level of study
- 4.2 Sources of climate information
- 4.3 Most representative statistical treatment of climate data
- 4.4 Temperature and solar radiation
- 4.5 Precipitation
- 4.6 Interception
- 4.7 Wind
- 4.8 Evaporation and evapotranspiration
- 4.9 Surface runoff and river flow
- 4.10 Soil moisture and groundwater

- 5. Geology as a substrate for activities
 - 5.1 Some physical properties of rocks
 - 5.2 Some chemical properties of rocks
 - 5.3 Extractive activities and mining
 - 5.4 Geohydrology

- 6. Relief, shape, and risks in geomorphology
 - 6.1 Topographic shapes, exposure, and altitude
 - 6.2 Slope
 - 6.3 Slope dynamics
 - 6.4 Erosion

- 7. Management of vegetation and fauna
 - 7.1 Types of vegetation, climate, soils, and relief
 - 7.2 Current vegetation in Catalonia, the landscape
 - 7.3 Notes on Zoogeography
 - 7.4 The historical relationship between wildlife and human settlements

- 8. Soils: the basis of all territorial activity
 - 8.1 Soil as an open system

8.2 Soil profile

8.3 Pedogenesis processes

8.4 Physical properties of soils

8.5 Chemical properties of soils

9. Case study: The irrigation plan and the Segarra-Garrigues canal

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
Theoretical lessons (TE)	28	1.12	KM29, KM34, SM26
Monitoring of practices and reports	20	0.8	CM20, SM26
Writing the course report	20	0.8	CM20, KM29, KM34, SM26
Practical sessions (PAUL)	35	1.4	CM20, KM29, KM34, SM26
Preparation of materials and study	35	1.4	KM29, KM34, SM26
Field trip (PCAM)	4	0.16	CM20, SM26
Recognition of the study area	5	0.2	CM20

The theoretical sessions will be conducted simultaneously with the practical ones (9 maximum), and once the course is sufficiently advanced, a field trip will take place, which will require prior preparation and the writing of a practical report. Both the practical activities and the report will be monitored through tutorials.

During the field trip, the Faculty's Field Trip Protocol will be applied. Students will have access to specific safety documentation for activities conducted outside the UAB campus, which they must read and accept.

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	Weight	Hours	ECTS	Learning outcomes
Exam on contents taught in the theoretical sessions	20%	1.5	0.06	KM29, KM34
Practical work and course report	40%	0	0	CM20, KM29, SM26
Written exam on the completion of the internships	20%	1.5	0.06	KM29, KM34, SM26
Active participation in class and field work	20%	0	0	CM20, KM29, KM34, SM26

The evaluation of the course is based on:

- In-person exam on theoretical content (20%)

- In-person exam on the work carried out in practical sessions (20%)
- Completion of practical activities and the field trip report (40%)
- Field trip and active participation in class (20%)

To pass the course, it is necessary to obtain a minimum grade of 3.5 in each of the assessed activities, regardless of their weight in the final grade, and to have attended the field trip.

Finally, students should bear in mind that their active participation throughout the course, both in theoretical and practical sessions, through oral contributions, will be taken into account in the assessment process.

Exam and Assignment Schedule

Exam and assignment submission dates will be communicated to students in advance and cannot be modified individually (except in exceptional and duly justified cases).

Erasmus students requesting to take an exam early must present a written document from their home university justifying the request.

The date of the resit exam will be set by the Faculty and is non-negotiable.

Grade Review

The maximum deadline for providing feedback and communicating the grades of the assessment activities is three weeks.

At the time of each assessment activity, the teaching staff will inform students (via Moodle) of the procedure and date for grade review.

Resits

To be eligible for resits, students must have been previously assessed in activities that account for at least two-thirds of the total grade.

Only activities that have been previously assessed and failed may be resubmitted.

The field trip and in-class presentations are not eligible for resit.

Assessment activities with detected irregularities are not eligible for resit.

Non-assessable Students

Students will receive a "Not assessable" grade if they have not submitted any activity or have only submitted the first one. Submitting two or more activities implies that the course has been followed.

Plagiarism or Fraudulent Conduct

If a student commits any irregularity that may significantly affect the grade of an assessment activity, that activity will be graded with 0, regardless of any disciplinary action.

If multiple irregularities are detected in the same course, the final grade will be 0.

Use of Artificial Intelligence

In this course, the use of Artificial Intelligence technologies is allowed as part of the project development, provided that the final result reflects a significant contribution from the student in terms of analysis and personal reflection.

Students must clearly identify which parts were generated using AI, specify the tools used, and include a critical reflection on how these tools influenced the process and final outcome.

Lack of transparency in AI use will be considered academic dishonesty and may result in a grade penalty or more serious sanctions in severe cases.

Single Assessment

This course does not offer a single-assessment option.

Bibliography

- Abellà Masdeu, Ester. SIG per al pacte d'alcaldies. Eina de consulta i presa de decisions. 2020. (1373 Màster Universitari en Geoinformació) <<https://ddd.uab.cat/record/231402>> [Consulta: 24 juny 2023].
- Generalitat de Catalunya i Institut d'Estudis Catalans. (2016). Tercer informe sobre el canvi Climàtic a Catalunya. <<http://bit.ly/2kL9PR9>> [Consulta: 24 juny 2023].
- Hendel-Blackford, Sarah et al. "Guía Para La Presentación de Informes Del Pacto de Los Alcaldes Para El Clima y La Energía." 28160 (2016): n. pag. Print.
- DPTOP, Generalitat de Catalunya, (1987). *Recomanacions tècniques per a la restauració i condicionament dels espais afectats per activitats extractives*. Barcelona
- Cobertera, E (1993). Edafología aplicada. Cátedra, Madrid.
- MOPT (1991). *Guía para la elaboración de estudios del medio físico: contenido y metodología*. Madrid
- Nuss, Sergi, Castañer, Mita. (2012). Governança de la sostenibilitat i el canvi climàtic en l'àmbit local. Girona. Documenta universitària
- Staden, Maryke & Musco, Francesco. (2010). Local Governments and Climate Change: Sustainable Energy Planning and Implementation in Small and Medium Sized Communities. 10.1007/978-1-4020-9531-3.

Webgrafia

- Agència Catalana de l'Aigua. Recomanacions per als municipis per a la redacció dels Plans d'emergència en situacions de sequera (https://aca.gencat.cat/web/.content/10_ACA/J_Publicacions/03-guies/19_Recomanacions_RedaccioPlans)
- Pacte d'Alcaldes (https://web.archive.org/web/20150420193115/http://www.eumayors.eu/IMG/pdf/covenantofmayors_text_c)
- Oficina Catalana del Canvi Climàtic. ANÀLISI DEL GRAU DE VULNERABILITAT I RESILIÈNCIA DELS MUNICIPIS DE CATALUNYA AL CANVI CLIMÀTIC
- (https://canviclimatic.gencat.cat/web/.content/02_OFICINA/publicacions/publicacions_de_canvi_climatic/E)

Software

To write the report it is necessary to use the GIS tools that the student may have on his computer or use the software available in the computer rooms of the faculty.

Course groups and languages

The information provided is provisional until November 30. After this date, you will be able to consult the language of each group through this [link](#). To access the information, you will need to enter the course CODE

Type of teaching	Group	Language	Semester	Shift
(TE) Theory	1	Catalan	first semester	morning-mixed
(PAUL) Classroom practices	1	Catalan	first semester	morning-mixed
(PCAM) Field practices	11	Catalan	first semester	morning-mixed
(PCAM) Field practices	12	Catalan	first semester	morning-mixed