

Degree	Type	Year
2503710 Geography, Environmental Management and Spatial Planning	OB	3

Contact

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Teachers

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Teaching groups languages

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

Prerequisites

Students must be self-sufficient in the use of Geographic Information Systems and Excel for the creation of cartography and figures at user level. This knowledge will be taken for granted and will not be discussed in this subject.

Objectives and Contextualisation

The purpose of the subject is to gain theoretical and methodological knowledge about graphic design and representation of geographic information. This course is an introduction to the domain of data visualization using free and proprietary software. It is not intended to address the intensive use of specific programs, but to understand the fundamental aspects related to the graphic design of geographic information. At the end of this subject, students will be able to apply the knowledge acquired not only to practical cases raised in other subjects, but also to projects within the workplace.

This subject is linked to the subject "Territorial and Environmental Laboratory: Project". The knowledge acquired will be applied in a practical way to the project developed in this other subject.

Learning Outcomes

1. CM26 (Competence) Interpret the statistical results obtained in a study through data analysis in order to make judgements that include a reflection on relevant social, scientific or ethical issues.

2. KM40 (Knowledge) Introduce the main sources of scientific information and documentation related to territorial and environmental processes in a study.
3. SM36 (Skill) Combine different techniques and methods of cartographic representation, computer graphics and spatial analysis in the creation of materials for the transmission of the results of a practical case.

Content

1. Basic concepts of graphic design.
2. Concepts of information design.
3. Concepts of infographic design.

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Project work and exercises inside the classroom, solving problems and doubts, receiving direct guidance from the teacher.	47	1.88	CM26, KM40, SM36
Type: Supervised			
Autonomous work on projects and exercises outside the classroom.	25	1	CM26, KM40, SM36
Type: Autonomous			
Reading and studying theoretical materials.	75	3	CM26, KM40, SM36

The subject follows the teaching methodology known as "flipped class". Instead of following the traditional model of acquiring knowledge through lectures and then doing homework, the reverse class proposes to reverse this process. The teacher provides the students with the study materials so that they acquire the fundamental knowledge on their own. During the time in the classroom, the teacher focuses on practical activities, group discussions and problem solving so that students can clarify doubts and receive direct guidance from the teacher. This approach encourages the active participation of students, promotes critical thinking and the practical application of acquired knowledge.

Autonomous

Reading and study of materials and bibliography provided by the professor.

Supervised

Revision of manuals and tutorials of the software to be used for performing exercises.

Completing the practices started in class and applying the guidance provided by the teacher.

Directed

Performing practical exercises and classroom projects under the supervision of the teacher.

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
Exam	30%	3	0.12	CM26, KM40
Final project	30%	0	0	CM26, KM40, SM36
Practical exercises	40%	0	0	CM26, SM36

The subject will be evaluated according to the following evaluation evidence:

- Practical exercises that will be given throughout the subject, which represent 40% of the final grade. The practices will be delivered within the deadline set by the teaching staff. Late delivery will incur a penalty.
- Completion of a group project, which will constitute 30% of the final grade.
- 2 partial exams, which will account for 30% of the final grade.

The evaluation of the subject will be continuous. To pass the subject it is essential:

- a) A minimum of 5 points (out of 10) on average in the two partial tests.
- b) A minimum of 5 points (out of 10) in the group project.
- c) A minimum of 5 points (out of 10) in the average of the exercises in the classroom.

Students who do not present the final project or do not appear for the exam will be assessed as "Not Assessed".

In the event that the student commits any irregularity that could lead to a significant variation in the grade of an evaluation act, this evaluation act will be evaluated with 0, regardless of the disciplinary process that may be instituted. In the event that several irregularities occur in the evaluation acts of the same subject, the final grade for this subject will be 0.

Evaluation acts in which there have been irregularities are not recoverable.

At the time of carrying out each assessment activity, the teacher will inform the students (Moodle) of the procedure and the date of revision of the qualifications.

This subject does not provide for the single assessment system.

RECOVERY

The exam and the practical exercises may be recuperable through work or alternative tests proposed by the teacher (in this case, they must be carried out in parallel with the planning of the subject).

The final project is not recoverable.

Bibliography

Cairo, A. (2011). *El Arte funcional: infografía y visualización de información*. Alamut.

JOHN KANE (2012). MANUAL DE TIPOGRAFIA (2ª ED.). EDITORIAL GG. ISBN: 9788425225123

Josef Müller-Brockmann (2012). *Sistemas de retículas. Un manual para diseñadores gráficos*. Colección GGmoda. ISBN: 9788425225147

HARRIS AMBROSE (2015). BASES DEL DISEÑO, COLOR. EDITORIAL PARRAMON. ISBN: 9788434228559

Software

Along the course, several softwares will be used:

- Geographical Information Systems: ArcGIS, Qgis.
- Office softwares: Powerpoint, Excel.
- Design softwares: <https://inkscape.org/>.
- Other online softwares: <https://www.canva.com/>, <https://penpot.app/>

Language list

Name	Group	Language	Semester	Turn
(PAUL) Classroom practices	1	Catalan/Spanish	second semester	morning-mixed
(PLAB) Practical laboratories	11	Catalan/Spanish	second semester	morning-mixed
(PLAB) Practical laboratories	12	Catalan/Spanish	second semester	morning-mixed
(TE) Theory	1	Catalan/Spanish	second semester	morning-mixed