

**Project Organisation and Management**

Code: 105030  
ECTS Credits: 3

Degree	Type	Year	Semester
2501915 Environmental Sciences	OT	4	0

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

## Contact

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## Use of Languages

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

## Teachers

Sarah Paradis Vilar  
Jordi García Orellana  
Roser Maneja Zaragoza  
Carlos Martínez Gasol

## Prerequisites

It is highly recommended to enroll in this subject at the same time as the TFG.

In fact, following the instructions of the CCAA Coordination, you must consider this subject "compulsory".

## Objectives and Contextualisation

This subject corresponds to a part of theory that until now was taught within the subject of the TFG. Therefore, the main objective continues to be to make available to the student the conceptual, technical and methodological tools that help to do the work.

## Competences

- Adequately convey information verbally, written and graphic, including the use of new communication and information technologies.
- Analyze and use information critically.
- Collect, analyze and represent data and observations, both qualitative and quantitative, using secure adequate classroom, field and laboratory techniques
- Demonstrate adequate knowledge and use the most relevant environmental tools and concepts of biology, geology, chemistry, physics and chemical engineering.
- Demonstrate adequate knowledge and use the tools and concepts of mathematics, computer science and statistics to analyze and manage environmental issues.

- Demonstrate adequate knowledge and use the tools and concepts of the most relevant social science environment.
- Demonstrate concern for quality and praxis.
- Demonstrate initiative and adapt to new situations and problems.
- Develop communication strategies on environmental issues, including environmental risks
- Information from texts written in foreign languages.
- Integrate environmental information in order to formulate and test hypotheses.
- Integrate physical, technological and social aspects that characterize environmental problems.
- Learn and apply in practice the knowledge acquired and to solve problems.
- Quickly apply the knowledge and skills in the various fields involved in environmental issues, providing innovative proposals.
- Teaming developing personal values regarding social skills and teamwork.
- Work autonomously

## Learning Outcomes

1. Adequately convey information verbally, written and graphic, including the use of new communication and information technologies.
2. Analyze and use information critically.
3. Communicate environmental problems with proper attention to the problems of environmental risk and the relevant regulations in the fields of safety and environmental health.
4. Demonstrate concern for quality and praxis.
5. Demonstrate initiative and adapt to new situations and problems.
6. Demonstrate knowledge of some of the main areas of scientific disciplines environment.
7. Demonstrate knowledge of some of the main areas of the social sciences in the environment.
8. Identify processes sciences, life sciences and social sciences in the surrounding environment and evaluate them properly and originally.
9. Information from texts written in foreign languages.
10. Integrate environmental information with environmental knowledge acquired from the sequence of observation, recognition, synthesis and modeling.
11. Know the main debates of current scientific thinking, especially regarding the environment.
12. Knowing the main theories and methodologies of environmental education and communication and the ability to apply to practical cases these theoretical teachings.
13. Learn and apply in practice the knowledge acquired and to solve problems.
14. Learn and apply the most important epidemiological analysis of environmental risks and the overall risk analysis methodologies.
15. Learn and apply the theoretical and practical aspects of environmental impact assessment principles.
16. Learn the main physical and biological bases of oceanography and their interactions.
17. Observe, recognize, analyze, measure and properly and safely represent environmental processes.
18. Prepare a report explaining the results obtained in the performance of work in the field of environmental sciences.
19. Teaming developing personal values regarding social skills and teamwork.
20. Work autonomously

## Content

Provisional syllabus of the subject:

### 1. Introduction

Div. 18/09/20: Roser Maneja - Carles Martínez - Sarah Paradís

### 2. Types of projects I. Projects of the Administration

Div. 09/25/20: Roser Maneja

### 3. Types of projects II. Private Company Projects

Dj. 1/10/20: Carles Martinez

4. Types of projects III. Research projects  
Dj. 8/10/20: Sarah Paradís

5. Project organization tools  
a. Bibliographic and documentary research  
Dj. 10/15/20 Sarah Paradise  
b. Data collection and fieldwork  
Dj. 22/10/20: Roser Maneja  
c. Analysis and treatment of qualitative and quantitative data  
Div. 10/30/20: Sarah Paradise  
i. Data presentation: graphs and tables  
Div. 11/6/20: Sarah Paradise  
ii. Cartography  
11/20/20: David Molina  
iii. Qualitative analysis techniques: interviews / surveys  
26/11/20: Roser Maneja

6. Project presentation tools  
a. ICT resources, online work dynamics tools, participation (1 session)  
3/12/20: Carles Martínez  
b. Oral communication techniques  
10/12/20: Roser Maneja

7. Budget in projects  
a. Environmental budget (carbon footprint)  
12/17/20: Carles Martínez  
b. Economic budget in projects for the private company and administration  
7/01/21: Carles Martínez

8. Case studies I. Administration projects  
8/01/21: Roser Maneja

9. Case studies II. Private Company Projects  
12/01/21: Carles Martínez

10. Case study III. Research projects  
13/01/21: Sarah Paradís

Some comments:

The sessions can be contemplated with a first more theoretical part and a second more practical part where the acquired theoretical knowledge is put into practice.

The topics of the sessions should be distributed according to the expertise of the 3 departments involved in the subject (Engineering - Physics - Geography). It would also be necessary for the 3 teachers who finally do the subject to be well coordinated and work together on the content of the sessions in order to ensure that a plot line is followed.

The evaluation will be based on the development of a case study taking into account the criteria and contents explained in class.

## Methodology

Theoretical sessions will be combined in class, with the organization of workshops through computer practices and the discussion of the fundamental elements for the writing of the memory.

## Activities

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Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Seminars	3	0.12	2, 11, 12, 6, 7, 4, 8
Solving problems classes	3	0.12	2, 13, 15, 14, 5, 4, 10, 17, 9, 20, 19
Theory	18	0.72	2, 13, 15, 14, 16, 3, 11, 12, 6, 7, 5, 4, 18, 8, 10, 17, 9, 1, 20, 19
Type: Supervised			
Tutoring	10	0.4	2, 13, 15, 14, 16, 3, 11, 12, 6, 7, 5, 4, 18, 8, 10, 17, 9, 1, 20, 19
Work preparation	18	0.72	2, 13, 15, 14, 16, 3, 11, 12, 6, 7, 5, 4, 18, 8, 10, 17, 9, 1, 20, 19
Type: Autonomous			
Reading. study of the received information and information search	20	0.8	2, 13, 15, 14, 16, 11, 12, 5, 4, 8, 9, 20

## Assessment

An examination and / or activity report of individual character will be carried out.

To ask for a reevaluation the student must have been received a mark in activities that represent at least 2/3 of the global mark during the course.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Evaluation activity	100%	3	0.12	2, 13, 15, 14, 16, 3, 11, 12, 6, 7, 5, 4, 18, 8, 10, 17, 9, 1, 20, 19

## Bibliography

The available at the beginning of the course.