

| Degree                    | Type | Year | Semester |
|---------------------------|------|------|----------|
| 2500798 Primary Education | OT   | 4    | 0        |

## 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

## Prerequisites

It is recommended to have passed the compulsory subjects about science education before doing this subject

## Objectives and Contextualisation

identify scientific activity as a significant part of contemporary culture.

understand characteristic values of scientific activity .

characterize the diversity of institutions in which science education acquires social relevance .

think about the presence of the scientific media .

establishing connections between the curriculum of primary education and science education offers in our social

## Skills

- Design and regulate learning spaces in contexts of diversity that take into account gender equality, equity and respect for human rights and observe the values of public education.
- Design, plan and evaluate education and learning processes, both individually and in collaboration with other teachers and professionals at the centre.
- Develop the functions of tutoring and guidance of pupils and their families, attending to the pupils own needs. Understand that a teachers functions must be perfected and adapted in a lifelong manner to scientific, pedagogical and social changes.
- Foster reading and critical analysis of the texts in different scientific fields and cultural contents in the school curriculum.
- Generate innovative and competitive proposals in research and in professional activity.
- Know and apply information and communication technologies to classrooms.

- Know the curricular areas of Primary Education, the interdisciplinary relation between them, the evaluation criteria and the body of didactic knowledge regarding the respective procedures of education and learning.
- Reflect on classroom experiences in order to innovate and improve teaching work. Acquire skills and habits for autonomous and cooperative learning and promote it among pupils.
- Work in teams and with teams (in the same field or interdisciplinary).

## Learning outcomes

1. Identifying aspects common to all the experimental sciences and examining them in depth.
2. Knowing how to communicate and present an argument in science lessons.
3. Planning for scientific learning situations in contexts outside of the school.
4. Promoting the use of explanatory models.
5. Relating science with its technological applications, with its social impact on the didactic situations pertaining to the school.

## Content

The contents of the course are:

- scientific education and commitment to train citizens in contemporary society: how we look at our social context? What are the values of science in the present context? Anyone can build science? Where is science in my life?
- science inside and outside the classroom: shall we go out of school? How to establish links between the curriculum and museums activities? How can we program it?
- museums and science centers as educational spaces: Which are the characteristics of museums and institutions of science? Do they work with the same didactical models that we work in the school? do we know how to evaluate the quality of their offers?
- professionals of Science Centers: What professional competences have teams working in Science Centers? What we can establish connections between science centers and school?

## Methodology

The methodology of the course combines oral presentations and reflections using written and audiovisual docum

## Activities

| Title   | Hours | ECTS | Learning outcomes |
|---|-------|------|-------------------|
| <b>Type: Directed</b>   |       |      |                   |
| Lectures  | 12    | 0.48 | 1, 5              |
| Reading forums  | 15    | 0.6  | 3                 |
| Sharing and discussion  | 8     | 0.32 | 3                 |
| Visits to institutions that offer scientific education activities | 10    | 0.4  | 3, 4, 5, 2        |
| <b>Type: Supervised</b>   |       |      |                   |

|                         |    |      |               |
|-------------------------|----|------|---------------|
| Tutoring                | 28 | 1.12 | 1, 3, 4, 5, 2 |
| <b>Type: Autonomous</b> |    |      |               |
| Independent learning    | 75 | 3    | 1, 5          |

## Evaluation

The evaluation of the course includes both individual and group dimension. Individual evaluation consists of a written exam and a written reflection around the forums of the course. The group evaluation consists in designing a teaching unit related to a museum or Science Center.

Attendance is compulsory. Students must attend more than 80% of the lessons to be evaluated.

All evaluation activities carried out must be submitted on time and there is no remedial exam.

Final grades will be notified via virtual campus, 15 days after. Then, a review will be considered.

Total or parcial copy of the examen or the written works will be a reason to fail the course.

Exam and written work grades must be more than 5/10 to be able to consider the average qualification

## Evaluation activities

| Title   | Weighting | Hours | ECTS | Learning outcomes |
|---|-----------|-------|------|-------------------|
| Individual reflection work  | 30        | 0     | 0    | 1, 3, 4, 5, 2     |
| Proposal of teaching unit about science education outside the classroom | 40        | 0     | 0    | 1, 3, 4, 5        |
| Written exam  | 30        | 2     | 0.08 | 1, 3, 4, 5, 2     |

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