

## **Syllabus Information**

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**Academic Year:** 2021/22

**Subject:** 63239 -

**Faculty / School:** 107 - Facultad de Educación

**Degree:** 584 -

595 -

**ECTS:** 4.0

**Year:** 1

**Semester:** Second semester

**Subject Type:** Optional

**Module:**

### **1. General information**

### **2. Learning goals**

### **3. Assessment (1st and 2nd call)**

### **4. Methodology, learning tasks, syllabus and resources**

#### **4.1. Methodological overview**

The learning process that has been designed for this course is based on the argued discussion of basic theoretical aspects on innovation and research in Biology and Geology as well as on the design and analysis of proposals elaborated by the students. Both the script of the topics covered and the specific materials for the follow-up of the course will be made available to students through the website of the course in the digital teaching ring of the University of Zaragoza.

#### **4.2. Learning tasks**

Sessions will be face-to-face and will consist of the following activities:

Introductory presentations, by the professor, on innovation and research in Didactics of Biology and Geology and its impact on the teaching-learning process.

Analysis and discussion of proposals and concrete experiences on innovation and research lines. Reading and discussion of articles on research and innovation in Didactics of Science.

Student presentations

Design of innovation and research projects in Biology and Geology teaching.

The organization of conferences or seminars with guest speakers that facilitate the acquisition of the competences of the subject is contemplated.

TRAINING ACTIVITY	HOURS	ATTENDANCE (%)
Master Classes	16	100
Practical classes	14	100

Directed work	20	10
Autonomous work	47	0
Assessment test	3	100

### **4.3. Syllabus**

- Educational innovation in science teaching (Biology and Geology).
- Analysis of different projects and discussion of innovative experiences carried out in secondary school classrooms. Research in Science Didactics. Qualitative and quantitative research.
- Research lines in Science Education (Biology and Geology).

### **4.4. Course planning and calendar**

The schedule of sessions and presentation of papers will be communicated in the ADD throughout the academic year.

### **4.5. Bibliography and recommended resources**

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=68579&Identificador=11956>