

Academic Year/course: 2023/24

## 63301 - Innovation and Classroom Research in Health, Chemical, Environmental and Agri-food processes

### Syllabus Information

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**Academic year:** 2023/24

**Subject:** 63301 - Innovation and Classroom Research in Health, Chemical, Environmental and Agri-food processes

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

**Degree:** 584 - Master's Degree in Teaching Compulsory Secondary Education

603 - Master's Degree in Teaching, specializing in Sanitary, Chemical, Environmental and Health Processes Agri-food

**ECTS:** 4.0

**Year:** 1

**Semester:** Second semester

**Subject type:** Optional

**Module:**

### 1. General information

The subject and its expected results respond to the following approaches and general objective: Acquire the concepts, criteria and instruments necessary to analyse and participate in processes of teaching innovation and educational research in their specialty, with the aim of continuous improvement of the teaching activity.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of the learning results of the subject provides training and knowledge, skills and competencies to contribute to some extent to the achievement of Goal 3: Health and wellness; Goal 4: Quality Education; Goal 5: Gender Equality; Goal 10: Reduction of inequalities.

### 2. Learning results

1. Recognize, describe and evaluate innovative teaching proposals in the field of the corresponding specialty, identifying the theoretical assumptions to which they respond and the problems related to teaching and learning that they try to solve
2. Explain the most important approaches and methodologies for evaluating educational activity in all its aspects and to apply some of the most established evaluation tools to specific teaching and learning situations.
3. Differentiate the different paradigms of educational research in the corresponding specialty and use them to evaluate research articles
4. Know and effectively use bibliographic and documentary resources related to educational innovation and research.
5. Know and contribute to the achievement of the Sustainable Development Goals (SDGs) from the professional practice and personal life.

### 3. Syllabus

- Innovative teaching proposals. Basic concepts of research, innovation and evaluation.
- Current lines of innovation and research in PT specialties.
- Basic research and innovation methods and techniques.
- The role of the teacher and the teaching team in innovation and research processes.
- Design of research, innovation and evaluation projects.
- Criteria and methods for the evaluation of programming and teaching practice.

### 4. Academic activities

**Lectures** (16 h): presentation of the contents of the subject with a practical orientation of the current lines in innovation and research in PT.

**Practical classes** (24 h): practical sessions aimed at the design of innovative teaching proposals, applying basic innovation methods and techniques, contextualized in a professional module (MP)

**Directed work** (16 h): focused on the development of an innovative teaching proposal

**Individual study** (40 h)

**Evaluation tests** (4 h)

## 5. Assessment system

It will be evaluated by means of the following activities (in all of them, a minimum of 4 out of 10 is required to obtain an average): Reflective analysis (20% of the grade)

Individual reflective work on the activities performed and the feedback received from the teacher. The following will be evaluated: quality of the reflections, evaluation of the results and analytical, critical and self-critical capacity.

### **Educational innovation proposal ( 50% of the grade).**

Innovation work related to the contents of the subject, previously agreed with the teacher. Students should demonstrate their competence in developing innovative proposals. It should preferably be done individually (exceptionally it could be done in groups). The following will be evaluated: applicability of the proposal, the innovation it introduces, planning, sequencing and timing, the didactic materials developed and the ICT tools and resources used.

**Oral presentation (30% of the grade).** Oral defence of the innovation proposal (maximum time 15 minutes), co-evaluated by the rest of the students. The following will be evaluated: clarity and rigor of the information presented, appropriateness to the time assigned, relevance and originality of the resources used, interest generated, enthusiasm for the topic, eye contact and use of the voice. In group presentations, coordination in the intervention.

In any case, as part of the evaluation, the teacher may request, at random, the oral defence of the test or assignment submitted in writing, for the verification of the grade.

If any of these activities are not passed during the semester, they can be recovered in the global test of the two official calls . These evaluation criteria are the same for students in the 5th and 6th call.

Finally, it must be taken into account that the Regulations of the Norms of Coexistence of the University of Zaragoza will be applicable to the irregularities committed in the evaluation tests by means of academic fraud, as well as the application of article 30 of the Regulations of the Norms of Evaluation of Learning in relation to irregular practices other than academic fraud.