Universidad Zaragoza

Academic Year/course: 2021/22

63232 -

Syllabus Information

Academic Year: 2021/22
Subject: 63232 -
Faculty / School: 107 - Facultad de Educación
Degree: 584 -
           594 -
ECTS: 4.0
Year: 1
Semester: Second semester
Subject Type: Optional
Module:

1. General information

2. Learning goals

2.2. Learning goals

Every student must demonstrate the next learning goals to pass this subject:

- To describe and compare recognized innovation projects in Technology and/or ICT teaching, written in Spain as well as in other countries.
- To describe teaching-learning related problems to the Technology and ICT subjects, studying the innovation project approaches to solve them, and the research models in the area.
- To analyze research articles on technology didactics or the use of ICT as support for learning improvement.
- To identify methods and basic techniques in research and innovation, both qualitative and quantitative, from the perspective of the action-research methodology.
- To design and assess innovation and research projects, taking into account all the elements of the didactic framework.

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.3. Syllabus

- Research in Computer Science and Technology Didactics and its impact in the teaching and learning process.
- Computer Science and Technology current innovation and research lines. Analysis of specific field experiences.
- Basic methods and techniques in research and innovation: Qualitative, quantitative and action-research methodologies.
- The importance of every single teacher, and the Department teaching staff, in the research and innovation workflows in ICT and Technology teaching.
- Effect of the teachers ICT and Technology conceptions and their own learning on the teaching and learning process in Secondary School.
- How to design and evaluate research and innovation projects, in the field of teaching ICT and Technology.

- The significance of teamwork in research, innovation and evaluation projects.
- Analysis and asses of the educative proposals: Methods and criteria to evaluate the educative design and the teaching practice.