

Academic Year/course: 2022/23

63229 - Disciplinary Content of Informatics

Syllabus Information

Academic Year: 2022/23

Subject: 63229 - Disciplinary Content of Informatics

Faculty / School: 107 - Facultad de Educación

Degree: 584 -

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ECTS: 6.0

Year: 1

Semester: Second semester

Subject Type: Optional

Module:

1. General information

2. Learning goals

2.2. Learning goals

In order to pass the course, the student must be able to...

- Explain the formative and cultural contribution to the optional course on ICT at ESO level.
- Explain the formative and cultural contribution to the optional course on ICT at Bachiller level.
- Describe the syllabus of the curricular designs of the aforementioned courses.
- Assess which components (concepts, skills and attitudes) are more adequate according to the competences expected in the educational stage (ESO/Bachiller).
- Select, prioritise and orient the contents of the course according to the different motivations of their students, both those opting either for STEM or Humanities.
Transform the curriculum of the aforementioned courses into an activity and work programme, aligned to the educational project of the centre.
- Identify the most relevant questions and perspectives regarding the evolution of Computer Science.

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The course is focused on practice. Students will apply the relevant theoretical and epistemological principles in the particular context of one of the courses on Communication and Information Technology described in the official curriculum. Besides acquiring knowledge on the subject, students are expected to show reflection and analysis capabilities required to apply such knowledge in the relevant educational context.

The professor will guide students in their process of elaborating their program project.

4.2. Learning tasks

- Theoretical sessions consisting essentially in participatory master classes.
- Sessions oriented to the analysis and open discussion of program proposals developed by the students.
- Personal work sessions: students will develop their own educational programmes, taking as reference those developed by teaching centres and editorials, as well as the official curriculum.

4.3. Syllabus

- Digital competence.
- The information society and the computer.
- Computer architecture.
- Operating systems.
- Software for computer systems.
- Computer networks and internet.
- Organization, design and production of digital information.
- Computer security and confidentiality.
- Publication and dissemination of content.
- Web 2.0 and social networks.
- Ethics and legality in network interaction.
- Introduction to structured programming and object-oriented programming.

4.4. Course planning and calendar

The ultimate details regarding the calendar will be agreed upon the beginning of the course and subsequently published on the Moodle platform.

Relevant dates are subject to the calendar available in the corresponding section related to the Master on the web of the Education Faculty, and will be published on the Moodle platform.