

COURSE GUIDE

2023/24

Faculty 215 - Faculty of Chemistry

Cycle .

Degree GQUIMI20 - Bachelor's Degree in Chemistry

Year Fourth year

COURSE

26143 - Final Year Project

Credits, ECTS: 18

COURSE DESCRIPTION

DESCRIPTION

The Final Year Project is a compulsory activity of 18 ECTS credits, that will be developed throughout the fourth academic year. It is an original work, done individually under the supervision of one or more directors, whose results will be presented in a written report, and that will be defended orally before an Evaluation Committee appointed for that purpose. The objective is for the students to prove their mastery of the knowledge and skills that they have acquired throughout his/her training during the Degree.

The theme of the Project will be chosen by the student from a list of topics offered by the Faculty. Also, a specific topic may be proposed by the student, however, it must be approved by the Faculty's Degree Board. The work will be preferably of experimental type, such as an introduction to research, a bibliographic deepening in a specific topic, a design or modeling work, etc. The goal is to develop the greatest number of skills associated with the degree.

The Final Year Project must be defended and evaluated once the student has passed all the remaining subjects of the curriculum, and therefore has got all the necessary credits to obtain the degree, excepting those credits (18) that correspond to the Final Year Project.

OBJECTIVES

The Final Degree Project should be oriented to the application of the general competencies associated to the Degree, to train for the search, management, organization and interpretation of relevant data, and to develop critical, logical and creative thinking and judgment.

In particular, the main objective is to consolidate the skills acquired through the Degree, and to apply these skills in practical situations. For this purpose, a work dealing with the analysis and especially, the design and implementation of an adequate solution to a problem related to the academic formation, will be carried out.

COMPETENCIES/LEARNING RESULTS FOR THE SUBJECT

COMPETENCIES

Each student will develop those specific competencies of the Research Group in which their Final Year Project is carried out and, above all, those necessary for their initiation in the application of the principles and methodologies inherent to the research, leading to solve real problems. In that sense, the following competencies will be developed:

M03CM11: Ability to design, program and carry out experimental processes, as well as to use instrumental techniques suitable to solve different types of chemical problems.

M03CM12: To know the tools and services available in Internet which allow the search of information in the field of chemistry and other related fields.

M03CM13: To transmit, in a comprehensible way, phenomena and processes related to chemistry and related subjects, in oral expositions and/or written reports, in one of the official languages of the Basque Country or the European Union.

M03CM14: To be able to use the information and knowledge previously acquired to train in new existing or emerging fields related to chemistry.

M03CM15: Where appropriate, to know and to use Basque language in academic or professional performance areas where their employment is relevant.

M03CM16: To employ advanced mathematical and computer techniques for the planification and resolution of aspects related to chemistry (data processing, modeling ...).

As can be seen, competencies that had been marked as transversal throughout the grade, such as M03CM13, now become specific. On the other hand, the transversal competencies that must be accredited are the following:

M03CM17: To demonstrate observation, analysis and synthesis skills with a critical and self-critical capacity.

M03CM18: To demonstrate learning capacity and autonomous work capacity for the development of professional life.

M03CM19: To be able to manage, organize and plan chemical processes, applying criteria of quality and conservation of the Environment.

M03CM20: To relate chemistry to other disciplines, as well as to understand its impact on the industrial and technological society, and the importance of the industrial chemical sector.

CONTENIDOS TEÓRICO-PRÁCTICOS

Given the nature of this subject, the contents cannot be described, since they are specific to each Project.

of the Written Report is greater than 5.0

EXTRAORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

The extraordinary assessment procedure (second chance evaluation) is the same as in the ordinary assessment.

MANDATORY MATERIALS

BIBLIOGRAFÍA

Basic bibliography

The director will indicate to the student the bibliography, which will be selected according to the topic of his/her Final Year Project.

Detailed bibliography

Journals

Web sites of interest

<http://www.ehu.eus/es/web/kimika-zientziak/eskola-egutegia>

<https://www.ehu.eus/es/web/kimika-zientziak/gradu-amaierako-lana>

OBSERVATIONS