Universidad Zaragoza

Academic Year/course: 2024/25

69885 - Supplementary course on Chemistry

Syllabus Information

Academic year: 2024/25
Subject: 69885 - Supplementary course on Chemistry
Faculty / School: 100 - Facultad de Ciencias
Degree: 655 -
ECTS: 3.0
Year: 01
Semester: First semester
Subject type: ENG/Complementos de Formación
Module:

1. General information

The *Supplementary Course on Chemistry* allows you to achieve the knowledge and skills on Chemistry necessary for the adequate follow-up of the mandatory and optional subjects of the Master in Circular Economy. In this subject, students learn to correctly use the essential vocabulary about the Circular Economy and to relate the fundamental concepts of this discipline. The subject is taught from the University of Zaragoza.

2. Learning results

- To have the basic knowledge and skills in Chemistry for an adequate understanding of the fundamentals of the Circular Economy.

3. Syllabus

Topic 1. Aggregation states

Topic 2. Atomic theory

Topic 3. Stoichiometry

Topic 4. Chemical bond

Topic 5. Chemical kinetics

Topic 6. Thermochemistry

Topic 7. Balances

Topic 8. Chemical nomenclature

4. Academic activities

Master classes: 12 hours

Sessions of 50 minutes each are given for the entire group. Lecturers explain the theoretical contents and solve representative applied problems. Teaching materials are available on Moodle. Regular class attendance is highly recommended.

Problem solving and case studies: 18 hours of student work, including 6 face-to-face hours.

Students solve problems.

Study: 42 hours

Students study theory and prepare for the final test.

Assessment tests: 3 hours

Students take a short answer, long answer and/or open-ended questions test.

5. Assessment system

The subject is evaluated using two assessment methods (continuous and global), so that the student is assigned the grade that is most beneficial. To do this, the scores obtained in the following tests are used:

- Two progressive assessment tests of learning through short questions (graded as *T1* and *T2*).
- Final short, long and/or development answer test (graded as *F*). The test is held simultaneously at each university under conditions that guarantee the proper identification of students and the impossibility of fraud in them.

The grades obtained by each student in the evaluation activities indicated above are weighted according to the following formulas:

Formula 1:

Final grade of the subject: $0.25 \times T1 + 0.25 \times T2 + 0.5 \times F$

Formula 2:

Final grade of the subject: F

The final grade for the subject is the best grade obtained in each case after applying formula 1 and formula 2.

6. Sustainable Development Goals

4 - Quality Education
13 - Climate Action