

**COURSE DATA****Data Subject**

Code	44999
Name	Industria, Química y Sociedad
Cycle	Master's degree
ECTS Credits	4.0
Academic year	2022 - 2023

Study (s)

Degree	Center	Acad. Period	year
2249 - M.D. in Chemistry	Faculty of Chemistry	1	Annual

Subject-matter

Degree	Subject-matter	Character
2249 - M.D. in Chemistry	6 - Industria, Química y Sociedad	Obligatory

Coordination

Name	Department
MUÑOZ ESPI, RAFAEL	315 - Physical Chemistry

SUMMARY

This course is aimed at the acquisition of transversal competences related to aspects of chemistry, industry and society that complement the knowledge acquired in the compulsory subjects of the Master and that facilitate students to tackle real problems of multidisciplinary nature both in research areas, development and innovation (R+D+i), legislation, knowledge transfer, quality assurance and other aspects of interest in the chemical industries of the Valencian Community

PREVIOUS KNOWLEDGE



Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

Chemistry knowledge acquired during the Chemistry or recommended entry degrees are required.

OUTCOMES

2249 - M.D. in Chemistry

- Students are able to integrate knowledge and handle the complexity of formulating judgments based on information that, while being incomplete or limited, includes reflection on social and ethical responsibilities linked to the application of their knowledge and judgments.
- Students can communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and non-specialist audiences, clearly and unambiguously.
- Students have the learning skills that will allow them to continue studying in a way that will be largely self-directed or autonomous.
- Students have the knowledge and understanding that provide a basis or an opportunity for originality in developing and/or applying ideas, often within a research context.
- Possess the necessary skills to develop multidisciplinary activities within the field of chemistry at the master's level.
- Promote, in academic and professional contexts in the field of economic policy, ... technological, social or cultural progress within a society based on knowledge and respect for: a) fundamental rights and equal opportunities between men and women, b) the principles of equal opportunities and universal accessibility for people with disabilities and c) the values of a culture of peace and of democratic values.
- Possess the ability to plan and manage time and resources and gain experience in decision-making.
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- Gain experience in the use of information tools and in the management of the information obtained.
- Be able to defend positions in debates and colloquia in a rigorous and reasoned manner.

LEARNING OUTCOMES

1 Know and handle the support tools for chemists in the professional field, in matters related to legislative and environmental requirements, product quality assurance, R + D + i and knowledge transfer, in the context of chemical industries of interest in the Valencian Community.



2 Know the mechanisms for improving social and human skills, and / or their training in areas of knowledge other than Chemistry, which may have an impact on their professional facet.

3. Knowing how to apply the knowledge acquired to contribute to the Sustainable Development Goals (SDGs), such as the sustainable management of water, raw materials and energy sources (SDGs 6 and 7) and to develop a professional work with the least environmental impact and using alternative raw materials (SDGs 11, 14 and 15)

DESCRIPTION OF CONTENTS

1. Legislation and regulation affecting the chemical industry

2. Innovation and knowledge transfer

3. 34 / 5000

Resultados de traducción

Product quality assurance

4. Aspects of interest in the chemical industries of the Valencian Community

WORKLOAD

ACTIVITY	Hours	% To be attended
Seminars	40,00	100
Preparation of evaluation activities	60,00	0
TOTAL	100,00	

TEACHING METHODOLOGY

Throughout the course, conferences, seminars or round tables related to transversal aspects of chemistry in its relationship with industry and society will be organized. In addition, students will attend tutorials with the professor of the subject to discuss the relevant aspects of the activities carried out and propose assignments to be carried out individually or in groups.

The course will also include a seminar about employability that will involve the participation in the Employment Forums held on the Burjassot campus during the academic year. Thus, the possibility of



professional insertion of graduates will be reinforced, which is one of the fundamental quality criteria of a postgraduate program.

As communication support, the Virtual Classroom and the email list of the Universitat de València that allow the communication student-professor, the storage of all the information that is considered appropriate for the development of the subject and the control of the participation of students in daily activities.

EVALUATION

Continuous evaluation of the activity developed by the student through participatory assistance, problem solving, etc., This section will include participation in the Employment forums held on the Burjassot campus during the academic year, which may involve up to 10% of the note:

WEIGHTING 70%

Report of the tutor, professor of the subject:

WEIGHTING 30%