COURSE DATA

Data Subject	
Code	44999
Name	Industria, Química y Sociedad
Cycle	Master's degree
ECTS Credits	4.0
Academic year	2023 - 2024

Study (s)

Degree	Center	Acad. year	Period
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

The objective of the subject is the acquisition of transversal competences related to aspects of chemistry, industry and society that allow complementing the knowledge acquired in the compulsory subjects of the Master, facilitating students to address real problems of multidisciplinary nature in research, development, and innovation (R+D+i); legislation; knowledge transfer; quality assurance; and other aspects of interest in chemical industries.

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 should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.
- Students should demonstrate self-directed learning skills for continued academic growth.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.
- 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

5. Chemists' professional career and skill development for employability

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, presentations, seminars or round tables related to cross-cutting aspects of chemistry and its relationship with industry and society will be organized. These sessions will be synchronous and will be broadcasted live over the Internet, whenever the available resources allow it. For a better interaction with the speakers, face-to-face participation in the sessions is recommended whenever possible, although not mandatory. For each session, the teachers will propose activities, which will be conducted and delivered within the established periods. In addition, the necessary materials will be published in the Virtual Classroom to allow those students, who for justified reasons have not been able to follow the session synchronously, to carry out the corresponding activities. Tutorials may be scheduled with the teachers to discuss the relevant aspects of the activities.

Activities of cross-disciplinary nature on employability will also be organized, which may include, among others, participation in the Employment Forums held on the Campus of Burjassot-Paterna during the academic year, thus reinforcing the possibility of professional integration for graduates, which is one of the fundamental quality criteria of a postgraduate program.

EVALUATION

The evaluation of the subject will have two components:

1. Continuous assessment of the activity developed by the student (weighting: 70%). Active participation throughout the course in the scheduled activities, the tasks performed, and the works presented will be assessed. This section will also include participation in the Employment Forums held on the Camups of Burjassot during the academic year.

2. Report of the professor responsible for the subject (weighting: 30%).