



| Teaching Guide | | | | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------|---------|
| Identifying Data | | | | 2021/22 |
| Subject (*) | Initiation to Research | Code | 610509333 | |
| Study programme | Mestrado Universitario en Investigación Química e Química Industrial (Plan 2020) | | | |
| Descriptors | | | | |
| Cycle | Period | Year | Type | Credits |
| Official Master's Degree | 1st four-month period | First | Optional | 6 |
| Language | Spanish | | | |
| Teaching method | Face-to-face | | | |
| Prerequisites | | | | |
| Department | Química | | | |
| Coordinador | Fernandez Sanchez, Jesus Jose | E-mail | jesus.fernandezs@udc.es | |
| Lecturers | Fernandez Sanchez, Jesus Jose | E-mail | jesus.fernandezs@udc.es | |
| Web | | | | |
| General description | | | | |
| Contingency plan | <ol style="list-style-type: none">1. Modifications to the contents2. Methodologies<ul style="list-style-type: none">*Teaching methodologies that are maintained*Teaching methodologies that are modified3. Mechanisms for personalized attention to students4. Modifications in the evaluation<ul style="list-style-type: none">*Evaluation observations:5. Modifications to the bibliography or webgraphy | | | |

| Study programme competences / results | |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code | Study programme competences / results |
| A3 | Innovate in the methods of synthesis and chemical analysis related to the different areas of chemistry |
| A5 | Properly assess risks and environmental and socioeconomic impacts associated with special chemicals |
| A7 | Operate with advanced instrumentation for chemical analysis and structural determination. |
| A8 | Analyze and use the data obtained independently in complex laboratory experiments and relating them with the chemical, physical or biological appropriate techniques, including the use of primary literature sources |
| B2 | Students should apply their knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study. |
| B3 | Students should be able to integrate knowledge and handle complexity, and formulate judgments based on information that was incomplete or limited, include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments. |
| B4 | Students should be able to communicate their conclusions, and the knowledge and the reasons that support them to specialists and non-specialists in a clear and unambiguous manner |
| B6 | Innovate in the different areas of chemistry, demonstrating initiative and entrepreneurship |
| B7 | Identify information from scientific literature by using appropriate channels and integrate such information to raise and contextualize a research topic |
| B8 | Evaluate responsibility in the management of information and knowledge in the field of Industrial Chemistry and Chemical Research |
| B9 | Demonstrate ability to analyze, describe, organize, plan and manage projects |
| B10 | Use of scientific terminology in English to explain the experimental results in the context of the chemical profession |



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| B11 | Apply correctly the new technologies to gather and organize the information to solve problems in the professional activity. |
| C1 | CT1 - Elaborar, escribir e defender publicamente informes de carácter científico e técnico |
| C2 | CT2 - Traballar en equipo e adaptarse a equipos multidisciplinares. |
| C3 | CT3 - Traballar con autonomía e eficiencia na práctica diaria da investigación ou da actividade profesional. |

| Learning outcomes | | | |
|-------------------|--|---------------------------------------|------|
| Learning outcomes | | Study programme competences / results | |
| | | AC3 | BC2 |
| | | AC5 | BC3 |
| | | AC7 | BC4 |
| | | AC8 | BC6 |
| | | | BC7 |
| | | | BC8 |
| | | | BC9 |
| | | | BC10 |
| | | | BC11 |
| | | CC1 | |
| | | CC2 | |
| | | CC3 | |

| Contents | |
|----------|-----------|
| Topic | Sub-topic |
| | |

| Planning | | | | |
|-----------------------------|---------------------------------------------------------|--------------------------------------|-------------------------------|-------------|
| Methodologies / tests | Competencies / Results | Teaching hours (in-person & virtual) | Student?s personal work hours | Total hours |
| Research (Research project) | A3 A5 A7 A8 B2 B3 B4 B6 B7 B8 B9 B10 B11 C1 C2 C3 | 100 | 50 | 150 |
| Personalized attention | | 0 | | 0 |

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| Methodologies | |
|-----------------------------|-------------|
| Methodologies | Description |
| Research (Research project) | |

| Personalized attention | |
|-----------------------------|-------------|
| Methodologies | Description |
| Research (Research project) | |

| Assessment | | | |
|-----------------------------|---------------------------------------------------------|-------------|---------------|
| Methodologies | Competencies / Results | Description | Qualification |
| Research (Research project) | A3 A5 A7 A8 B2 B3 B4 B6 B7 B8 B9 B10 B11 C1 C2 C3 | | 100 |

| Assessment comments |
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| Sources of information | |
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| | |
|---------------|--|
| Basic | |
| Complementary | |

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|-----------------|--|
| Recommendations | |
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|------------------------------------------------------|
| Subjects that it is recommended to have taken before |
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| Subjects that are recommended to be taken simultaneously |
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| Subjects that continue the syllabus |
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| Other comments |
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(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.