

IDENTIFICATION DETAILS

Degree:	Biotechnology
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Field of Knowledge:	Science
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Faculty/School:	Experimental Science
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Course:	ORGANIC CHEMISTRY
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Type:	Basic Training
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ECTS credits:	6
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Year:	1
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Code:	2019
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Teaching period:	Second semester
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Area:	Chemistry
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Module:	Fundamental sciences
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Teaching type:	Classroom-based
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Language:	Spanish
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Total number of student study hours:	150
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SUBJECT DESCRIPTION

El aprendizaje de esta asignatura proveerá al alumno del conocimiento necesario para identificar y nombrar los distintos grupos funcionales presentes en un compuesto orgánico, visualizar y proponer su estructura tridimensional y aplicar los principios básicos de reactividad en Química Orgánica a moléculas orgánicas sencillas.

SKILLS

Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

General Skills

To acquire firm theoretical, practical, technological and humanistic training needed to develop professional activity.

Capacity for teamwork and group management.

Capacity for problem-solving and decision-making.

To be familiar with the basic principles and theories of human and experimental sciences.

To develop oral and written communication skills.

To understand the fundamental laws and principles of physics, mathematics, chemistry and biology as the foundation for the mental structure of a biotechnician.

To acquire the skills needed for experimental work: design, preparation, the compilation of results and the obtainment of conclusions, understanding the limitations of an experimental approach.

Specific skills

To identify the structure and reactivity of the primary organic functions.

To understand the basic principles of the mechanisms in organic reactions and to be able to propose plausible routes of synthesis.

To organise and suitably plan work in the laboratory.

To identify and define laboratory instruments and materials.

To be able to describe, quantify, analyse and critically assess the results of experiments performed in the laboratory.

Capacity for written and oral communication of the knowledge acquired.

To be able to apply the theoretical knowledge acquired for solving problems and practical cases linked to the various subjects.

To be able to work in a team in an efficient and coordinated manner.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
60 hours	90 hours