

Teaching guide

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:	ETHICS AND BIOETHICS
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Type:	Compulsory
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ECTS credits:	6
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Year:	3
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Code:	2033
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Teaching period:	Fifth semester
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Area:	Social Aspects of Biotechnology
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Module:	Social, Historic and Economic Aspects of Biotechnology
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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

Actualmente la biotecnología es uno de los sectores científico-económicos que más rápido evolucionan. Las nuevas aplicaciones que esta ciencia desarrolla inciden directamente en los ámbitos de la salud, la alimentación y la economía, entre otros, afectando todos ellos directamente a la vida de las personas. Esta capacidad de la biotecnología de influir en tantos aspectos de la sociedad indica claramente que el científico no puede permanecer ajeno a las consecuencias éticas que su actividad acarrea a nivel personal y social. En consecuencia el alumno del grado de Biología ha de formarse para ser capaz de detectar las posibles implicaciones (más allá de las puramente técnico-científicas) de su trabajo y adquirir los conocimientos suficientes para poder evaluarlos desde un punto de vista ético-social.

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 be familiar with and apply current legislation governing biotechnological processes and products.

To understand the ethical implications of professional and personal activity.

Capacity for teamwork and group management.

To have acquired the ability for analytical, synthetic, reflective, critical, theoretical and practical thought.

Capacity for problem-solving and decision-making.

To recognise the mutual influence existing between science, society and technological development in order to strive for a sustainable future.

To develop oral and written communication skills.

Specific skills

To apply current legislation and regulations governing biotechnological processes and products.

To identify the basic principles of ethics and bioethics and apply them in personal and professional life.

To understand the meaning and foundations of human dignity, the fundamental dimensions of the human being,

the evolution of the various anthropologies throughout history and their practical implications.

To be able to approach a subject by means of rigorous, profound and comprehensive thought.

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.

To analyse and sum up key ideas and content regarding all manner of texts; to discover the theses incorporated within them and the issues raised; and to make critical judgments about their form and content.

To develop criteria for problem-solving and decision-making both professionally and personally.

To be able to apply the foundations and conceptual instruments to establish dialogue between different positions as a guarantee of healthy civil coexistence.

DISTRIBUTION OF WORK TIME

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