Universidad Francisco de Vitoria UFV Madrid

Teaching guide

IDENTIFICATION DETAILS

Degree:	Biomedicine
Field of Knowledge:	Science
Faculty/School:	Experimental Science
Course:	EXPERIMENTATION METHODOLOGY II
Type:	Compulsory
ECTS credits:	7,50
Year:	2
Code:	2148
Teaching period:	Third-Fourth semester
Area:	Methodology of Biomedical Experimentation
Module:	Experimental Methodology in Biomedicine
Teaching type:	Classroom-based
Language:	Spanish
Total number of student study hours:	187,50

SUBJECT DESCRIPTION

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

Acquire the necessary skills for analysis, criticism and synthesis applied to the issues pertaining to the field of biomedicine.

Acquire the skills needed for experimental work: its design and execution, the compilation of results and the obtention of conclusions, understanding the limitations of an experimental approach.

Develop the capacity to learn new knowledge based on the available scientific evidence.

Specific skills

To understand and be able to apply the molecular tools needed to develop research projects and design biomedical processes.

To understand the chemical and physical foundations of the instrumental techniques of use in a biomedicine experimentation laboratory.

Know the different laboratory instruments and materials (biological and non-biological) and their obtention and handling for different purposes, observing the pertinent principles of security.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
75 hours	112,50 hours